



1982/83 Wholesale Price List

Cable: "OLYRAV" LSA

Telex: 67 34 77

Divimpic Sales Company

P. O. Box 74545 • 216 So Oxford Ave • Los Angeles, CA 90004



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Dear Friend,

Do you know of a little boy or girl growing up without ever hearing mom and dad, the bark of the dog, or the sound of the teacher's voice? Or, can you imagine growing old, and growing deaf, imprisoned behind a wall of silence, cut off from communication with family and friends, wondering if you're senile just because you no longer can hear and understand them?

There are more than two million Americans, young and old, who are deaf or profoundly hard of hearing. Some 20 million of us-nearly one in every 10-have some degree of hearing loss.

As a nation we're spending more than 13 billion dollars every year for special schools and educational programs, medical care, vocational rehabilitation, and compensation. We're losing at least that much more in diminished effectiveness and productivity of these people. And no price tag can be placed on the personal suffering and emotional problems stemming from the isolation inherent in loss of hearing. And what are we doing about it? Disgracefully little.

We're spending less than 30 million dollars—less than one-tenth of one percent of the cost - on research on the cause, treatment, and prevention of the problems of hearing. Meanwhile, that bill of 25 to 30 billion dollars goes on, each and every year. It isn't good business - and it certainly is not in line with our feeling of compassion, perhaps that is because deafness is a hurt that doesn't show.

As I become more and more familiar with the work of the doctors and scientists at the House Ear Institute I'm amazed at how much modern science can accomplish with so little - and wonder what they could do with more.

They are restoring a sense of hearing to the totally deaf. And they are giving deaf children a chance to grow and learn in a normal hearing world. They are developing new hearing aids which should help the many elderly people with nerve deafness. And, they are on the track of preventing many of the hearing problems which come with age.

I was just plain lucky to have crossed the path of Dr. William F. House and the Institute in 1963, after some tests and observation indicated I had an acoustic neuroma. I never knew the gravity of my case. Dr. House operated on me in 1964 (Friday the 13th was the only open date). The operation was successful, with eleven doctors from all over the world watching and learning new methods. Since that time I have led a very active life, working six days per week about 10 to 12 hours per day and enjoying every minute of it.

By then I had learned an acoustic neuroma, or tumor, is a benign growth on the balance and hearing nerve near the brain. It was first recognized in 1777. Yet, still today, it presents special, extraordinary dangerous problems for both the patient and the physician.

always caused death. Dying was tortuous, grotesque patient had to say about the implant: and lengthy. During the early 1900s, neurosurgeons performed more and more operations on acoustic tumors, but with fearfully high mortality rates, between 72 and 82 percent. The mortality rate decreased in the following years, but the patient who survived suffered gruesome complications of surgery, including almost inevitable facial paralysis.

In 1962, Dr. William F. House, a neuro-otologist, developed a different surgical approach to the tumor, through the inner ear rather than through the back of the brain. In 1964 he reported sixty acoustic tumor surgeries using these methods. There were two deaths, but the last 47 of these tumors were operated on without a fatality. This was an extraordinary and unsurpassed record for a tumor whose operative mortality in competent neurosurgical hands had been rarely lower than twenty percent. Not only did Dr. William House's surgical innovations save more lives, they also improved the quality of those lives, and mine was one of them.

Since that time, Dr. William F. House and his group have operated on and saved the lives of more than fifteen hundred (1,500) acoustic neuroma patients who are now leading normal lives instead of being either dead or disfigured for the rest of their lives.

Prior to that time, his associates had developed or perfected many surgical procedures which restored hearing in the middle ear where three tiny bones transmit and magnify sounds. There is little reason today that anyone with such a conductive loss should live with a severe hearing impairment.

Leading the way into the inner ear, where the hearing, balance, and facial nerves are located next to the brain, the people at the Institute found ways to treat Meniere's disease, a condition characterized by recurring attacks of vertigo, hearing loss, and tinnitus (head noise). In the 40 percent of cases which don't yield to medical treatment, Dr. William House developed a surgical procedure effective on the majority of those cases. A notable patient is Alan Shepard, the astronaut. Grounded by recurring dizziness, the operation enabled him to resume his space career and go to the

For the totally deaf, Dr. house developed an electronic device, in part implanted just behind the ear, which carries the electric signals of sound to the cochlea, or organ of hearing. These signals produce a sensation of sound by stimulating the remaining healthy fibers of the hearing nerve.

More than 200 adults have received this cochlear implant from Dr. House and more than 20 coinvestigators at other medical centers around the country. That program is continuing and Dr. House is turning his attention to children.

In a pilot program, 17 children from 3 to 17 were OLYMPIC SALES CO.

In the years before these tumors were treated, they implanted. Here's what the father of the youngest

"Over this year we have had three little girls in Tracy. First, the normal, happy vivacious Tracy. Then Tracy who had lost her hearing from meningitis and was totally deaf. She had lost her speech. She couldn't understand us and we couldn't understand her. She was very frustrated and her behavior was totally different from the first Tracy we had known.

'And now, we have the third Tracy, a little girl with the cochlear implant. She can now hear her own voice. Her frustration level has been greatly reduced. Her speech is coming closer to the first Tracy.

They're planning now to send this totally deaf youngster to regular kindergarten class rather than to some school or class for the deaf. And the Institute is moving ahead with plans for a model center for deaf children. This will concentrate in one place all of the physical, diagnostic, psychologic evaluation, educational guidance, and parental counselling for parents and their deaf children, whether they can be helped with powerful, well-fitted hearing aids or require an implant.

No wonder that in its 37 years the House Ear Institute in Los Angeles has become known as the world center for attacking and solving people's problems of hearing and balance. It shares its findings with the 500 or more ear specialists from all over the world who visit the Institute or attend its courses each year to learn what's new in otology. And thousands of patients come from throughout the United States and elsewhere seeking relief for their problems.

The budget - two-thirds of which goes directly to research - exceeds \$2.5 million a year. All funds come from private sources: individuals, foundations, corporations, and civic groups. Only a small amount comes from tuition and fees for professionals. NO MONEY comes from the government.

The House Ear Institute needs your help. Join me by becoming a financial supporter through your own contribution. Ask friends to join you. Write or call for further information.

Please send your contribution to:

House Ear Institute 256 South Lake Street Los Angeles, California 90057 (213) 483-4431

I am deeply grateful to the Institute, Dr. William F. House, and all its dedicated members for saving my life and the lives of so many. I am very privileged to be part of this great organization. Please help so all may hear, and live.

Francis Ravel President



Dear Friends:

Olympic Sales Company has been in business for a great many years and up until January 13, 1982 was one of the largest Apple computer dealers in the nation. We were selling a great number of school districts, colleges, universities, educational institutions, a substantial number of the Fortune 1300 firms and many more, Apple products at substantial discounts.

On January 13, 1982, we received a letter signed by Mr. A. C. Markkula, President of Apple Computer Company. This letter was entitled 'NOTICE OF TERMINATION' and was a notification from Apple Computer Company that Olympic Sales Company had been terminated as an Apple Computer Dealer because Olympic Sales Company had the audacity to sell Apple products through mail order.

On November 9, 1981, we did sign under protest a so-called 'MODIFICATION OF AGREEMENT" which Apple Computer Company requested all its dealers to sign, forbidding sales of Apple products by mail order or telephone order. Their requirement was that the customer must come to the Apple dealer and have a 'Face to Face" meeting.

I am taking the opportunity of placing on this page for your inspection a copy of the 'MODIFICATION OF AGREEMENT" and a copy of the 'NOTICE OF TERMINATION. Both of these documents are self-explanatory.

For your information, if I was still an Authorized Apple Computer dealer today, I would sell to all School Districts, Colleges, Universities, High Schools, Elementary Schools, Faculty Members and other Educational Institutions Apple products at the following prices:

| Description | Retail | Cost |
|--|---|--|
| 48K Plus Computer | \$1,530.00 | \$ 989.95 |
| Disc Drive with Controller | 645.00 | 479.95 |
| Disc Drive 2 (Drive only) | 525.00 | 389.95 |
| Family System | 2,495.00 | 1,639.95 |
| Apple II System Package | 1,995.00 | 1,599.95 |
| Apple III 128K including System Software Apple III 256K including System Software | 3,495.00 4,295.00 | 2,269.95 2,787.95 |
| | 48K Plus Computer Disc Drive with Controller Disc Drive 2 (Drive only) Family System Apple II System Package Apple III 128K including System Software | Description Retail 48K Plus Computer \$1,530.00 Disc Drive with Controller 645.00 Disc Drive 2 (Drive only) 525.00 Family System 2,495.00 Apple II System Package 1,995.00 Apple III 128K including System Software 3,495.00 |

These figures will give you an idea of what prices I would have charged you for Apple products. Now, if you review your records and discover that you have been paying much more than these prices for Apple products, I will be convinced that you have been paying too much for Apple products.

FRANCIS RAVEL, PRESIDENT OLYMPIC SALES COMPANY

capple computer inc. 10260 Bandley Drive Cuperlino, California 95014 (408) 996-1010

January 13, 1982

Mr. Francis Ravel Olympic Sales Company, Inc. 216 S. Oxford Avenue P.O. Box 74545 Los Angeles, CA 90004

NOTICE OF TERMINATION

This is to notify you that effective immediately Apple Computer, Inc. hereby terminates its Authorized Apple Dealer Sales Agreement with Olympic Sales Company, Inc. pursuant to subparagraph 3(g)(iv) of that Agreement. You have been subparagraph and subparagraph in the mail order sale of Apple terminated for engaging in the mail order sale of Apple terminated for engaging in the Agreement Modification which products in violation of the Agreement Modification which you signed on November 9, 1981, and which became effective on November 12, 1981. Your Level I Service Center on November 12, 1981. Your Level I Service Immediately. Authorization is also revoked effective immediately.

Please refer to Sections (8) and (10) of the Dealer Sales Agreement respecting the cessation of your use of Apple trade names and marks and be advised that Apple is prepared to take the appropriate steps to prevent their misuse to mislead or deceive the consuming public as to your continued status as an authorized Apple dealer or Service Center.

Very truly yours, M.C. Markly

A.C. Markkula

MONEY IS TIGHT, HARD TIMES ARE HERE AND EVERY ONE WANTS TO GET THE MOST FOR WHAT HE'S GOT!

Look into your past and present Apple purchases, if you find you have been paying too much for Apple products please call or write and tell us about your experiences.

We believe that restraint of competition is wrong and causes you, the consumer, to pay more.

Write and tell us about your experiences and thoughts on this!

MODIFICATION OF

AUTHORIZED APPLE DEALER SALES AGREEMENT

ithorized Apple Dealer Sales Agreement between Apple Computer, saler is hereby amended to add subparagraph 3(g)(iv) as

Dealer and Apple recognize that because of the special, technical nature of Apple Products, customers purchasing them can be properly served only if they have the benefit of pre- and post-sale education, orientation and support, specifically including in-person contact with the selling dealer, in order that each customer's needs may be properly assessed and the features, benefits, operation and applications of the Apple Products being purchased may be demonstrated and fully explained to them by knowledgeable sales personnel. Accordingly, Dealer shall not engage in telephone or mail order sales of Apple Products and shall sell Apple Products only in a manner insuring that Dealer maintains such direct in-person contact with the customer. Violation of the provisions of this paragraph will result in immediate termination of the Agreement, notwithstanding Paragraph 10 thereof.

IN WITNESS WHEREOF, the parties hereto have executed this Modification of Agreement the date and the year written by Apple below.

PLE CONSUTER, INC. .. DEALER Dated: NOV 9. 1981 Dealership Name: Olympic Sales Company ubscribed to and sworn to (0.S.C. CORP.)

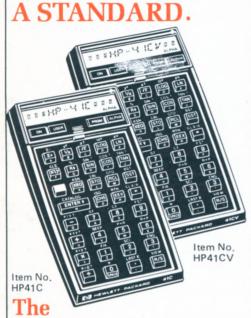
efore me this 9th day of ovember, 1981. ber 11, 1985

Leanor E. Nagy, Notary Fublic Address: 600 N. Sepulveda

El Segundo, CA 90245



THE HP-41... A CALCULATOR. A SYSTEM.



The unique difference between the HP-41C and HP-41CV is that the HP-41CV has 5 times more memory built in. Specifically, it contains 319 storage registers versus 63 storage registers in the HP-41C. For those of you who have programming experience, the HP-41CV gives you the memory capacity to store a host of programs continuously. And with all this memory built in, you have four free ports to add the peripherals of your choice, making your system even more powerful and versatile.

HP-41C or HP-41CV...

Which One For You?

If you are new to programming or your needs do not immediately require full memory capabilities, start with the HP-41C. As your need for memory increases, add a Quad Memory Module or up to 4 Memory Modules to meet your increasing computational needs.

HP-41C \$199.95 HP-41CV \$249.95

The HP 82180A Extended Function/Memory Module

The NEW Extended Function/Memory Module increases your current programming function set by adding such functions as programmable size, programmable assign and string functions. This new module also provides memory management functions for accessing extended memory and an additional 889 bytes of extended memory.

Item No. HP82180A

Your Cost: \$67.95

The HP 82181A Extended Memory Module

Retail:\$75.00

Retail:\$75.00

The Extended Memory Module provides an additional 238 data registers or 1,666 bytes to the HP-41. These modules can be used in conjunction with the HP 82106A Memory Module or the HP 82170A Quad Memory Module. (The HP 82180A Extended Function/Memory Module is required when using the HP 82181A Extended Memory Module.)

Since the Extended Function/Memory Module itself contains 127 extended memory registers, plug in one Extended Memory Module and you have 365 extended memory registers or 2,555 bytes of program memory. Plug in two Extended Memory Modules and you have a total of 603 extended memory registers or 4,221 bytes. No more than two Extended Memory Modules can be used at any one time.

Item No. HP82181A

Your Cost: \$67.95

The HP 82182A Time Module Reta

Retail: \$75.00

Introduce the dimension of time to HP-41 programming with the NEW interactive Time Module. The Time Module enables you to expand your calculating system with time information and time-controlled operations. Using the Time Module, your HP-41 can become the heart of a time-based system controller, an alarm clock, an appointment reminder, a calendar, a timer, even an advanced stopwatch.

Item No. HP82182A

Your Cost: \$67.95

The HP 82183A Extended I/O Module†*

Your HP-41/HP-IL capabilities can be further enhanced with the Extended I/O Module.

Now you can generate HP-41 compatible bar code on the new HP 82162A Thermal Printer/Plotter. You can convert your frequently used programs to bar code, an inexpensive means of storing programs and data.

Cassette tapes can be duplicated quickly and easily by using multiple HP 82161A Digital Cassette Drives and the Extended I/O Module. This timesaving feature allows you to conveniently make multiple copies of tapes to meet your software distribution needs.

When plugged into the HP-41, the Extended I/O Module gives you capability and flexibility for accessing files on mass memory devices. And you get more general purpose I/O capabilities.

†Requires HP 82160A HP-IL Module.

Item No. HP82183A Call for Availability & Price!

MEMORY MODULES

These handy modules can actually quintuple the HP-41C's resident Memory. You simply plug in up to four Memory Modules or one Quad Memory Module to increase data storage and program memory. One Memory Module contains 64 data storage registers. The Quad Memory Module contains 256 data registers. With four Memory Modules or one Quad Memory Module, you can expand your HP-41C resident memory up to a maximum of 319 data registers—the equivalent of the HP-41CV.

Upgrade your HP-41C . . .



QUAD RAM
Item No.
HP82170A \$84.95





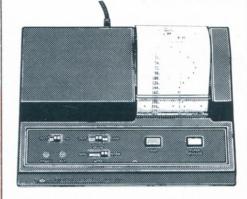
The HP-41 The HP-41C and HP-41CV are the most powerful Hewlett-Packard programmable calculators to date. The HP-41C was chosen by NASA for the Astronauts on the space shuttle Columbia because of its capabilities and reliability



HP 82143A PRINTER/PLOTTER

Item No. HP82143A Retail:\$385.99 Shpg Wt:8 lbs

\$299.95



This whisper-quiet, thermal, 24-character Printer/Plotter easily plugs into the calculator to give you numeric, upper- and lower-case alpha, doublewide characters, plotting capability, and intensity control for optimum contrast and readability. It even allows you to define your own "special" characters. The Printer/Plotter is a valuable aid in editing programs or checking long calculations. Your output is listed line by line for easy reference. Portable and lightweight, the HP-41 Printer/Plotter operates on batteries or ordinary house current, working when and where you need it.

THE HP 82104A CARD READER



Item No. HP82104A Retail:\$215.00 Shpg Wt:3 lbs

\$179.95

The Card Reader for the HP-41 saves your programs and data on small, magnetic cards. By passing the appropriate magnetic card through the Card Reader, you place all the information on the card in the HP-41. Instantly. You write and store programs on the cards just as quickly, too. And the Card Reader is "extra-smart": it swiftly reads cards whether under your control or that of a program; it accepts cards as they are read; it prompts you for the next card; it even accepts program cards from the HP-67 and HP-97, automatically translating programs into HP-41 code.

If you frequently change long programs, develop or change software, or need quick storage of programs and data, the Card Reader will give you a highly portable, time-saving method.

THE HP 82153A OPTICAL WAND

Item No. HP82153A Retail:\$125.00 Shap Wt:2 lbs

\$109.95



With the Wand, Hewlett-Packard makes using the HP-41 even quicker and easier. The Wand reads bar code, a convenient and inexpensive means of inputting and storing HP-41 programs and data. Almost all HP-41 software is available in bar code, including Users' Library programs and Solutions Books.*

IL-HEADLINERS

HP 82163A RE:\$295,00 \$249.95 Video Interface Module

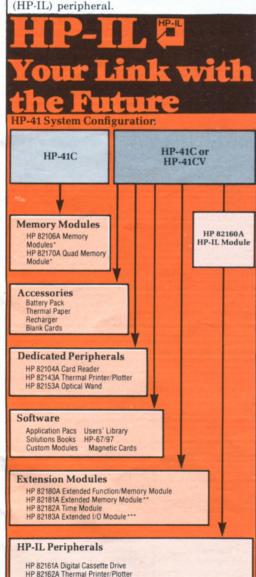
HP 82164A RE:\$295.00 \$249.95 RS-232 Interface

HP 82165A RE:\$295.00 \$249.95 GPIB (IEEE488) Interface

HP 82166A RE:\$295,00 \$249.95 8-Bit Parallel Interface Shpg Wt: 2 lbs each

The HP-IL concept revolves around a two-wire cable that can connect as many as 30 HP-IL devices in a closed series loop. HP-IL is a "master-slave" interface, meaning that one active controller regulates the information flow between all of the devices in the loop. Data and commands move around the loop in one direction.

Now, your HP-41 hand-held computer can easily communicate with, and control, any Hewlett-Packard Interface Loop (HP-IL) peripheral



For use with HP-41C only.
Extended Function/Memory Module required



This module plugs into any of the four ports of the HP-41C/CV. Once plugged in, it allows, with simple HP-41 commands, control of up to 30 HP-IL devices.

Item No. HP82162A Shpg Wt:8 lbs Retail:\$495.00

The HP 82162A Thermal Printer is a high quality, twenty-four character, battery-operable device featuring ASCII standard characters, special characters, user definable characters and symbols, bar code generation, and plotting capabilities. It has all the features of the HP 82143A Thermal Printer and, in most cases, programs written for the HP 82143A will work without modification.

Two different print modes allow you to highlight words or the titles of your output, and special justification features permit you to control the output of the printer to align a single column either to the left or right of the page. The full 128 character set makes it easy to describe problems and results.



The HP 82161A Digital Cassette Drive is a battery-operable, mass memory device that easily meets the standards of quality and performance previously found only in peripherals for large computers.

It uses mini digital cassettes with a capacity of 131,000 bytes, or 512 records of 256 bytes each. The extensiveness of storage space is more easily understood when you realize that all 26 of the current HP-41

HP 82160A HP-IL Interface Module

Item No. HP82160A Shpg Wt:2 lbs

\$109.95

A special printer select switch on the HP 82160A allows the HP 82143A to be connected in lieu of the HP-IL printer and makes all the HP 82143A functions accessible. Additionally, it provides mass storage functions that enable the user to create, store, and recall data, program, and status files. Finally, the HP 82160A makes control of all the devices on the loop happen in a friendly manner.

HP 82162A Thermal Printer



In addition, the FORMAT function automatically centers words on a page, and will left and right justify any two columns on any line(s). The 101 Element Buffer extends graphics on any one line by 57 more character or column locations than the HP 82143A Thermal Printer.

HP 82161A Digital Cassette Drive

Solutions Books take up only 3/4 of one cassette!

The search speed of the HP 82161A is 30 inches per second (IPS), or an average of 13 seconds to access a file. Rewind time is a maximum of 30 seconds. The Read/Write speed is 9 inches per second (IPS), or 900 bytes per second. This means it would take 40 seconds to store the full HP-41CV memory.

Other special features include a STANDBY function to help conserve battery power and the ability to create, store, and access files by user-defined names of variable length.

Other functions will be accessible when the Extended I/O Rom is available. Included among them is a bar code function that will enable the HP 82162A to print HP-41 Bar Code.



Compatible with HP-41 CV & 41 C **Software**

Shpg wt:1 lb each

\$30.00

Mathematics/Spanish

Securities HP415026 \$30.00

Bond/Note Price and Yield Sing the Black Scholes Evaluation Method
 Warrant and Option Hedging
 Yield on Call Option Sales
 Butterfly Options

Butterfly Options
 Butt Spread Option Strategy
 Convertible Security Analysis
 Convertible Bond Investment Analysis
 Stock Portfolio Valuation
 Bond Speculation Using Margin

Basic Statistics for Two Variables
Moments, Skewness and Kurtosis
Analysis of Variance (One Way)
Analysis of Variance (Two Way, No
Replications)
Analysis of Covariance (One Way)
Curve Fitting (Linear, Exponential,
Logarithmic, and Power Curve)
Multiple Linear Regression
Rebeporary Depression

Contingency Table
 Spearman's Rank Correlation Coefficient
 Normal and Inverse Normal Distribution
 Chi-Square Distribution

\$30.00

Polynomial Regression
 t Statistics
 Chi-Square Evaluation

Statistics/Spanish HP415028

Analysis for Mechanical

Simply Supported Continuous Bear

Structural Analysis for Civil Engineers HP415021 \$45.00

Beams
 Simply Supported Continuous Beams
 Settling of Continuous Beams
 Continuous Frame Analysis
 Steel Column Formula
 RPN Vector Calculator

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Traverse, Inverse and Side
Compass Rule Adjustment
Transit Rule Adjustment
Intersections
Curve Solutions

Horizontal Curve Layout
 Vertical Curves and Grades

Resection
Predetermined Area
Volume by Average End Area
Volume of a Borrow Pit

Progression of a Slider Crank

Gear ForcesStandard External Involute Spur Gears

Standard External Involute Spur Gears
 Helical Spring Design
 Forced Oscilator with Arbitrary Function
 Coordinate Transformation
 Points on a Circle
 Circle W. The Section

Machine Design

Circle by Three Points

Concrete Columns
Effective Moment of Inertia for Concrete

Surveying HP415005 \$30.00

Columns

Mohr Circle Analysis

Strain Gage Data Reduction

Soderberg's Equation for Fatigue

RPN Vector Calculator

Engineers HP415027 \$30.00

Structural

Statistics HP415002 \$30.00

HP415029

HP-41 software has been carefully designed to effectively increase your problem-solving potential by adding power. flexibility, and versatility to your calculator. And HP-67 and HP-97 magnetic card pacs are compatible, although some programs require additional memory modules. By utilizing any of these software solutions you can make your calculator a highly specialized tool in seconds.

HP-41 Application Pacs

HP-41 Application Pacs are complete with detailed manuals including examples, and plug-in Application Modules that increase the versatility of the HP-41

Choose from:

Aviation HP415018 \$30.00

- Flight Management
 General Aircraft Weight and Balance
 Determining In-Flight Winds
 Flight Plan
 Position by One or Two VORs
 Course and Speed Corrections

Clinical Lab and Nuclear Medicine HP415024 \$30.00

cal Chemistry

- Beer's Law
 Body Surface Area
 Creatinine Clearance
 Blood Acid-Base Status
 Oxygen Saturation and Content
 Red Cell Indices
- Nuclear Medicine

 Total Blood Volume

- Thyroid Uptake
 Radioactive Decay Corrections
 RadioImmunoassay
 Statistics

- Basic Statistics
 Chi-square Evaluation and Distribution

t Distribution

Circuit Analysis

HP415006 \$30.00

Financial Decisions

HP415004 \$30,00 . Compound In

- Internal Rate of Return
 Compound Interest Solutions

- Lornpoulo interests Solutions
 Internal Rate of Return
 Modified Internal Rate of Return (FMRR)
 Net Present Value
 Loan Amortization Schedules
 Depreciation Schedules
 Bond Price and Vield

- Davs Between Dates
- Financial Decs./Spanish \$30.00 HP415030

Mathematics

HP415003 \$30.00

 Matrix Operations
 Solution to f(x) = 0 on an Interval
 Polynomial Solutions/Evaluation
 Numerical Integration
 Differential Equations
 Fourier Senes
 Complex Operations
 Hyperbolics
 Trangle Solutions

- Triangle Solutions
 Coordinate Transformations

Thermal and Transport Science HP415019 \$30.00

- Unit Management System
 Equations of State
 Polytropic Processes for an Ideal Gass
 Isentropic Flow for Ideal Gases
 Conduit Flow
 Energy Equation for Steady Flow
 Heat Exchangers
 Black Body Thermal Radiation

Home Management

- HP415023 \$30.00
 Home Budgeting Travel Expense Record
 Stock Portfolio Evaluation
- Remaining Balance and Accumulated
- Interest Your Financial Calculator
 Tax Free Individual Retirement Account Tax Free Individual Hetirement Accou (IRA) or Keogh Planning
 The True Cost of an Insurance Policy
 Checking Account Reconciliation
 Home Owner's Equity Analysis

Games HP415022 \$30.00

- Super BaglesBiorhythms

- PinballSpace WarSubmarine

Navigation HP415017

Provides an integrated set of programs to solve the classic navigation problems of dead reckoning and celestial navigation \$30,00

Real Estate HP415016

Programs for the real estate investinternal Rate of Return, Deprecia Compound Interest Solutions, and It

under Development: Petroleum Fluids Pac

HP415039 \$30.00 **HP-41**

Solutions Books HP-41 Solutions Books provide complete step-by-step keystroke listings, to help provide you with answers to your general or specialized programs.

Choose from: Business

Business Statistics/Marketing/Sales

HP410094 \$12.50

- HP410094 \$12.5

 Forecasting Using Exponential Smoothii
 Seasonal Variation Factors (SEVAR)
 Multiple Linear Regression
 Normal, 1 and f Distributions
 Grouped Stallstics Breakeven Analys
 Moving Average Competz Curve
 Experience (learning) Curve for
 Manufacturing Cost
 Price Elasticity of Demand

Home Construction Estimating HP410096 \$12,50 Concrete Volume Linear to Board Feet Conversions and

- Linear to Board Feet Conversions and
 Framing Board Feet
 Lumber Estimate
 Lumber Estimate
 Wall and Ceiling Areas Estimate
 Wallpaper Estimate
 Drywall and Insulation Estimate
 Sheathing and Subfloor Estimate
 Painting Estimate
 Wood Floor Estimate
 Lending, Savings
 and Leasing
 HP410086 \$12.50
 Constant Payment to Principal Loan
 APR With Fees/Discount
 Rules of 78's * Interest Conversions
 Amontization Schedule * Savings Plan

- Amortization Schedule
 Add-on to APR with Odd Days
- Lease with Additional Payments in Advance
- Skipped Payments
 Compounding Periods Different from
- Payment Periods

Real Estate HP410136 \$12.50 Ellwood Analysis • Mortgage Pricing Analysis of Income Property Wrap-Around Mortgage • Mortgage Yield Amount of Equity at Any Time • IRR Investment Analysis for Property and Land

- Residential Analysis (Rent or Buy)
 Variable Analysis of Real Estate Inve
 Shopping Center Rent Projections

Small Business HP410137 \$12.50

- Percentages and Proportions with Tabulator
 Account Posting
 Retail Inventory Monitor
 Invoicing

Depreciation SchedulesBreakeven Analysis Computation

\$30.00

Taxes HP410338 \$12.50

Geometry Plate Sol HP410084 \$12.50

- V Notches and Long Radii Internal and External Tapers
- Points of Tangency with Circles and Arcs
- . Line-Line Intersection

- Points on a Straight Line
 Grid of Points. Calculates All Points
 Grid of Points. Calculates Discrete Points
- Tangent Circle to Two Straight Lines with a Given Radius

Distance Between Lines in Space

- High-Level Math HP410083 \$12.50
- High-Level Math #P4 (10083-\$12.50 sine. Cosine. Exponential Integrals Eigen Values/Vectors of 3° Order Systems Eigen Values for 3° Order System Chebyshev. Legendre. Hermite, and Laguerre Polynomials Sixteen-Point Gaussian Quanratune Gamma Function 4 x 4 Matrix Operations Bessel Functions. Error Function Characteristic Equation of a 4 x 4 Matrix

- Test Statistics HP410082 \$12.50
 One Sample Test Statistics for the Mean
 Test Statistics for the Correlation Coefficient
- Differences Among Proportions
 Behrens-Fisher Statistics
- Kruskal-Wallis Statistic
- Mean-Square Successive
 The Run Test for Randomness
 Intraclass Correlation Coefficient
- Fisher's Exact Test for a 2 x 2 Contingency
- Table

 Bartlett's Chi-Square Statistic
- Mann-Whitney Statistic
 Kendall's Coefficient of Concordance

- Engineering
 Antennas HP410093 \$12.50
 Loaded Vertical Antennas
 Loaded Dipole Antennas
 Gain of a Honzontal Rhombic Antenna at
- Gain of a Hondroontal Hombio Antenna Zero Azimuth
 Azimuth Pattern of Cylindrical Array of Antennas
 Colinear Antenna Gain and Pattern
 Beam Pattern for Uniform Array
 Radar Antenna Bearnwidth and Gain
- Antennas
 Parabolic Antenna Calculations
- RF Path Loss, dB

 Antenna Gain or Power of a Remote
- Planar Phased Array Radar Beam Positions
 Shortwave Transmission Path Calculations

Chemical Engineering HP410100 \$12.50

- Conservation of Energy
 Hydrocarbon Combustion Conduit Flow
 Heat Transfer through Composite Cylinders
- and Walls

 Von Karman Analogy for Heat and Mass
- Transfer Equations of State
 Reversible Polytropic Process for an Ideal
 Gas Straight Fin Efficiency

Gas Straight Fin Efficiency Fluid Transport Numbers Single Stage Equilibrium Flash Calculation Weak Acid/Base Titration Curve

- Civil Enginring HP410089 \$12,50

- Properties of Special Sections
 Beams Fixed at Both Ends
- Simply Supported Beams
 Control Systems HP410092 \$12.50

- Control Systems FP4-10U92 \$12.5

 Frequency Response of a Transfer Functio

 Bode of Transfer Function that has Each
 Pole and Zero Given

 Bode of Third Order Over Fourth Order
 Transfer Function

 Bode of Third Order Over Third Order
 Times S**N Transfer Function

 Bouth Text for Continuous and Discrete
- Immes S"N Transfer Function

 Routh Test for Continuous and Discrete
 Time System Stability

 Convert Frequency Response—Open
 Loop, Closed Loop

 Aid to Root Locus Plots I—Real Poles

 Aid to Root Locus Plots II—Complex Poles

 Classical Control Gauss

- . Classical Control Gains First Order Regulator
 Second Order Regulator

- Engineering HP410088 \$12.50

 a RC Timing

 Frequency Response of a Transfer Function

 Transistor Amplifier Performance

 Class A Transistor Amplifier Bias
- Optimization
- Butterworth Filter Design Chebyshev Filter Design
 Bode Plot of Butterworth and Chebyshev
- Transmission Line Calculations

Transmission Line Impedance Transmission Line impediates Fluid Dynamics HP410139 \$12,50 and Hydraulics HP410139 \$12,50 Conduit Flow Flow with a Free Surface * Valve Sizing Flow with a Free Surface * Valve Sizing

Forces at Bends and Fittings Pipe Network Analysis Restriction Metering Orifice Calculation Energy Equation for Steady Flow Compressible Flow in Ducts Flood Routing and Hydrographs Heating, Ventilating, and Air

- Heating, Ventilating, and article.
 Conditioning HP410140 \$12.50

 Overall Heat Transfer Coefficient
 Insulation Break Even Analysis
 Air Flow in Circular Ducts
 Air Duct Conversion
- Equations of State
 Black Body Thermal Radiation
 Psychrometric Properties
- Heat Exchangers
 Decibel Addition and Subtraction
 Temperature Conversions

- Mechanical Engineering HP410090 \$12.50
- Gear Forces
 Stress on an Element
 Interference Fits
- Equations of State Spring Constant
 Soderberg's Equation for Fatigue
- Progression of a Slider Crank
 Linear or Angular Deformation
 Constant Acceleration
- Constant Acceleration
 Solar Enginring HP410138 \$12.50
 Solar-Beam Irradiation
 Sun Altitude, Azimuth, Solar Pond

- Absorption

 Energy Equivalents—Fuels and Prices
 Solar Shading Angles View Factor
 Heat Exchangers Sun Almanac
 Black Body Radiation Heat Transfer

Other

- HP410145 \$12.50 Calendars

 Calendar Da
- Calendar Date/Julian Date Conversion
 Day of Year—Day of Week
 Number of Weekdays between Two Dat
 In What Year is a given Date an M-Day
 Number of M-Days between Two Dates an
 Ni* M-Day of Month
 In M-Day of Month

- Holidays Religious Holidays
 Chinese Years to/from Gregorian Years
 New Moon and Full Moon Day of Month
 Calendar Printout
- Cardiac/Pulmnry HP410097 \$12.50

 Pulmonary Functions
 Body Surface Area
 Blood Chem I

 Cardiac Outputs
 Cardiac Shunts
- Blood Chem I
 Blood Chem II
 Ventilator Calculations
 Contractility and Stroke Work
- Chemistry HP410102 \$12.50
- pH of Weak Acid/Base Solutions
 Acid-Base Equilibrium (Diproctic)
 Weak Acid/Base Titration Curve
- Equations of State Van Der Waals Gas Law Reer's Law and Absorbtivity Calculations
- Activity Coefficients from Potentiometric Crystallographic to Cartesian Coordinate
- Transformations

 Kinetics using Lineweaver-Burk or Hofstee
- Mixture Viscosities
 Vapor Pressure, Bubble and Dew Point
- Calculation ■ Single-Stage Equilibrium Calculation
- HP410099 \$12.50 Games Hexapawn
- SimonPlanet LanderOrbital Lander
- Dice Scatter
 3-D Tic Tac Toe Flip-Flop
- Optometry | HP410143 \$12.50
- Contact Lens, Telescope Calculations
- Calculation of Needed Magnification, Add, and Working Distance
- Effective, Equivalent and Neutralizing
- Power

 Lens Power Needed at New Vertex
- Positional Effective Power
 Pratt, Sheard, Percival Methods of Near R,
 Four Accomodative R, s and their Average
- (Contact Lens) HP410144\$12.50
- Back Vertex Power of PMMP Contact Lens
 Effective Power of Spectacle Lens at
 Corneal Plane
 Residual Cylinder Induced at Tear/Cornea
- Interfaced by Contact Lens

 Cylinder Induced by Toric Contact Lens

 Contact Lens Power Necessary to Correct
- Ametropia
 Toric Contact Lens Parameters
 Tabb Contact Lens of 1st Approximation
 May-Grant Contact Lens of 1st

- Three Wire Leveling Azimuth of the Sui
 Taping Reduction

HP410142 \$12.50

- Black Body Thermal Radiation
 Black Hole Characteristics
 Special Relativity Conversions
- Isotope Overlap Corrections
 Semi-Empirical Nuclear Mass Formula
 Clebsch-Gordon Coefficients and 3j
- Symbols Evaluation

 32-P Remaining on MM.DDYYYY Given
 (Solutions Book titles and program listings subject to change without notice.)

- HP410143 \$12
 Aniseikonia Crossed Prism Res
 Obique Cylinder Sum
 Low Vision; Determination of Activity
 Demand from Letter Size and Workin
 Distance
 Control
 Control
 Control

- Distance

Approximation Roggenkamp Specification for Prism Ballast Front Toric or Prism Ballast Contact Lens Brungardt I Brungardt II

- Three-Dimensional Special Relativity
 Einstein's Twin Paradox
 Delta-V Orbit Simulator
 Equations of Motion

KEY FEATURES

- Base Conversions and Arithmetic Hexadecimal, Decimal, Octal, and Binary
- Programmability 203 Program Lines Insert/Delete Editing 4 Subroutine Levels 16 Program Labels
- Extensive Bit-Manipulation Capability 1's and 2's Complements Unsigned Mode
- Word-Size Specifiable
- Logical Operators AND, NOT, OR, XOR
- Floating-Point Decimal Mode

BENEFITS

Quickly and easily converts among four number bases. Performs arithmetic in any one of the four bases. Big time-savings as there is no need to memorize or recalculate number conversions Saves you time when debugging or rewriting programs. Simplifies repetitive problem solving

When coupled with programming tools, you can perform such tasks as simulating individual processor instructions

Versatile to meet your application. You dimension word size from a minimum of 1 bit to a maximum of 64 bits

Perform Boolean operations at the touch of a key In binary mode, you can actually see the binary representation of the number.

Use as a specialized programmer's tool or as a convenient, programmable calculator.

Programmable Calculator for:

Computer science students and instructors Logic designers

Electrical engineers and students Machine-language programmers, software engineers

Control-applications specialists. Computer hobbyists.

System analysts and consultants

Digital Electronics & Computer Science



Retail:\$150.00 HEWLETT PACKARD

HP-16C

The slim-line HP-16C is the most advanced calculator ever designed for computer science applications. With a choice of four number base modes, four Boolean operators, and programming capability, the HP-16C is an ideal tool for the technical Shog Wt: 4 lbs professional in digital electronics.

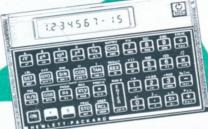
HEWLETT PACKARD

ADVANCED PROGRAMMABLE SCIENTIFIC with Matrix Functions

Your Cost:

\$119.95 Retail: \$135.00





Slimline LCD Item No. HP15C

Programmable Calculator for:

Engineers, scientists, and technicians who use advanced mathematics Surveyors and navigators.

Students and instructors dealing with advanced mathematics. Business-decision makers who use small-scale systems of equations.

Shpg Wt: 4 lbs

KEY FEATURES

- Matrix Functions
- Complex Number Arithmetic
- Solve
- Integrate
- Programmability 448 Program Lines Insert/Delete Editing 7 Subroutine Levels 25 Program Labels

BENEFITS

Operates with whole arrays of numbers as easily and quickly as with simple numbers.

Matrix capability simplifies many tasks, such as solving a system of linear equations. Manipulate up to five matrices or a total of 64 elements. Solve a 7 × 7 system in just 28 seconds.

Simplifies advanced mathematical calculations. A real time-saver in such applications as calculating impedance in electrical circuit analysis.

Finds the roots of an equation in a matter of seconds. Even tells you if there are no real roots. Finds definite integrals of a function, the area under a curve. No need to remember complicated integration rules.

Quick and easy editing tools to debug programs. Call your program by label name. Memory space comparable to an HP-41C.

ADVANCED Programmable Scientific

Scientific Features:

Solves trigonometric functions (in degrees, radians and grads) for Sin, Cos, Tan and their inverses, hyperbolics and inverses. Converts from rectangular coordinates to polar coordinates, from decimal angles to angles in degrees (hrs/min/sec) and degrees to radians. Operates in fixed, scientific and engineering notation with automatic overflow/underflow into scientific. Item No. HP11C

Retail: \$135.00

Statistical Features:

Percent, percent change, mean/standard deviation (1- or 2- variable), summations, linear regression/estimate, correlation coefficient. factorials, gamma functions, permutations and combinations, random number generator.

General Features:

+, -, X, ÷, y^X, √x, 1/x, Change Sign (CHS) Ln X, e^x, log X, 10^x, x² π , absolute value, integer /fraction part, round, storage register arithmetic. **Programming Features:** Up to 203 program lines, automatic memory allocation, five single character program labels and ten numeric program labels, program review (single-step and back-step), insert/delete editing, unconditional branching, four levels of subroutines, eight conditional tests, two flags, pause, con-trolled looping, integer /fraction truncation, user mode, indirect control of: data storage and recall, storage register arithmetic. branching and looping.



Shpq Wt: 4 lbs



Item No. HP12C Shpg Wt: 4 lbs

Your Cost:



HEWLETT PACKARD

HP-12C ADVANCED Financial Programmable with Special Functions

Business Functions:

Solves for: number of periods (n), compound interest (i), present value (PV), payment (PMT), and future value (FV) Bond yield-to-maturity and price, amortization (both accumulated interest and remaining balance), net present value (NPV), internal rate of return (IRR), depreciation (sum-of-years' digits, declining balance, and straight-line), odd days'

interest, simple interest. Percent, percent change. percent of total, calendar functions, beginning/end of period selection. Five financial registers.

Programming Features:

Up to 99 program lines, automatic memory allocation, program review (single-step, back-step), unconditional branching, two conditioning tests and pause.

Statsitical Functions:

Mean/standard deviation (1- or 2- variable). summations, linear regression/estimate, correlation coefficient, factorials

General Functions:

+, -, X, \div , y^{X} , \sqrt{x} , 1/x, x^{2} , Change Sign (CHS), LN, e^{X} , integer/ fractional truncation, storage register arithmetic.

Retail:\$150.00



HP-38C **Advanced Financial** Programmable with Continuous Memory

Shpg Wt:6 lbs

Dynamic Memory Allocation.

The HP-38 shares its memory space between program memory and data memory When the HP-38 is first turned on it contain 8 lines of memory for your program and 20 addressable storage registers. As you write a program longer than 8 lines, memory is automatically converted from data storage to program memory (at a ratio of 1 to 7) until you've reached a maximum of 99 lines, with 7 storage registers still remaining. And remember, any keyboard operation occupies one line of program memory even though it may take one, two, or three keystrokes to

A Handy 2000-Year Calendar.

The built-in HP-38 calendar can easily calculate the actual number of days between two dates on a 360- or 365-day year, day of the week, or a past or future date.

Statistics at the Press of a Key

The HP-38 offers all of the statistical capability of the HP-37E plus linear estimate of for a known v and x_ (weighted average)

Continuous Memory.

The HP-38C has all the functions and capabilities of the HP-38E with the added feature of Continuous Memory which:

Saves Time. You can key a program once,

Extends Functional Capability. Customize your calculator to meet your specific needs.

Reduces Errors. Fewer entries mean fewer

Prolongs Battery Life. The less your calcu lator is turned on, the longer it lasts between

The HP-38C Advanced Finncial Programmable Calculators come complete with

- HP-38C Owner's Handbook and
- Programming Guide
 Your HP Financial Calculator: An
 Introduction to Financial Concepts and Problem-Solving
- Recharger/AC Adapter
 Rechargeable battery pack
- Soft carrying case
- Item No. HP38C

Retail:\$150.00





HP-34C

Advanced Programmable Scientific with Continuous Memory

Item No. HP34C Retail:\$150.00 Shpg Wt:6 lbs

More Programming Features

The HP-34C's 12 reusable address labels let you easily create branches and subroutines. With the conditional test set of four x/y comparisons, four x/0 comparisons, four flags, plus the increment/decrement loop counter, you can program the HP-34C to make a wide range of program control decisions. And, with the versatile I-register, you can indirectly address data and program

Continuous Memory.

Continuous Memory provides tremendous value in time-saving and convenience. It also extends the functional capability of your calculator by allowing you to customize it to meet your specific needs.

Applications Book Support.

The solutions you require may already exist in the four applications books available for the HP-34C. Subjects covered include mathematics, statistics, surveying, and student

Compare the HP-34C's new functions to any other and see if you don't agree—Hewlett-Packard has made another major contri-bution to technical problem-solving.

The HP-34C Advanced Programmable Scientific with Continuous Memory comes complete with:

- HP-34C Owner's Handbook and
- HP-34C Owner's Handbook and Programming Guide Solving Problems with your Hewlett-Packard Calculator HP-34C Standard Applications Book HP-34C Culick Reference Card Recharger/AC Adapter Rechargeable Battery Pack

- Soft Carrying Case

Physical Specifications:

hp HEWLETT PACKARD



HP-37E FINANCIAL CALCULATOR

Provides an ideal combination of the financial, retail and statistical capabilities you need in modern business.

\$78.95

The HP-37E is a Hewlett-Packard Series E calculator designed specifically for the residential real estate, retailing, and business communities who need to make fundamental business and financial decisions quickly and accurately

Retail-Style Percent Functions.

Whether you're solving for percent, percent whether you're solving to percent, percent, because thange, or percent of total, you'll appreciate the logical, consistent operation of the HP-37E. And the unique PRICE function calculates the selling price if you know the cost and the margin.

Seven Addressable Storage Registers.

Besides the five financial registers and the Hewlett-Packard four-register automatic memory stack, the HP-37E is equipped with seven other memories in which you can store or recall constants, answers, or any number you want to save during your calculations.

Statistics at Your Fingertips.

For research and analysis, the HP-37E is packed with useful statistical functions. The \$\times + key automatically accumulates the values needed to calculate the means (averages) and standard deviations for one or two sets of data.

The HP-37E also provides a linear regression, or trend line function and can compute the correlation coefficient. A factorial function is also available.

Physical Specifications

. Length: Width 75 mm (3.0") ■ Height 30 mm (1.2")



Item No. HP37E Retail:\$90.00 Shpg Wt:6 lbs

> HP973155 \$ HP973205 \$

Handheld Fully **Programmable** Calculator

Item No. HP67 Retail:\$375.00 Shpg Wt:8 lbs

\$299.95

"Smart" magnetic card reader.
With the magnetic card reader in both the
HP-67 and the HP-97 you can load the entire
program memory, or selected portions, either
manually or under program control.

You can record data from all registers onto a magnetic card. You can also load ever storage register or selected registers.

When recording programs, the HP-67 and HP-97 automatically record the angular mode setting, the display setting and the status of the four flags.

10 User-definable Keys.

There are ten user-definable keys you can use for any special function you may require In addition there are ten numerical labels (LBL 0 thru LBL 9).



GTO GSB

You can perform a direct branch or sub-routine to a label specified. A GSB instruction can also be used with a subroutine to a depth of three levels.

Conditional Branching.

 $x\neq y$, x=y , $x\leq y$, x>y $x\neq 0$, x=0 , x<0 , x>0

These keys allow your program to make decisions for you by testing the values in the X- and Y-registers or by testing the value in the X-register against zero as indicated. Flags

riags

rags

rags

rags

rags

for tests in your programs. They can be set, cleared, or tested.

Indirect Addressing.

GTO (i) GSB (i)

You can perform a direct branch or sub-routine to a label specified by the current positive number in the I-register using these keys. When the number in the I-register is a negative number these instructions perform a direct branch (GTO (i)) or a subroutine (GSB) (i)) backward the number of lines

STO (1) RCL (1)

You can also use the I-register to specify the address of a storage register for storing and recalling data or for storage register

ISZ (0) DSZ (0)

35.00

35.00

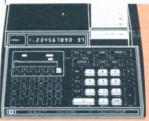
You can also increment (ISZ (i)) or decrement (DSZ (i)) the contents of the storage register specified by the value in the I-register and then test against zero.

Comes complete with NiCad battery pack, 110/220 volt charger and instruction ma



HP-97 Desktop **Fully Programmable Printing Calculator**

\$589.95



Item No. HP97 Retail:\$750.00 Shpg Wt:10 lbs

The HP-97 provides battery operation and thermal printing - in one, selfcontained unit.

The HP-97 Fully Programmable Printing Calculator combines exceptional program-ming power and the great usefulness of a quiet thermal printer. What's more, the HP-97 operates on batteries as well as ACso you can have a printed record whenever and wherever you need it. In addition, there's an extra-large display for easy readability and a buffered keyboard so data may be keyed in at high speed.

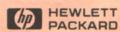
The HP-67/97 Fully Programmable Calculators come complete with:

- Illustrated Owner's Handbook and Programming Guide.
 Quick Reference Card. (HP-67 only)
- Standard Pac complete with 40 cards, card holder, and manual.
 Battery pack that under normal use provides about 3 hours of continuous
- operation
- Recharger/AC adapter that lets you operate the calculator on AC while the battery pack is recharging.
 Soft carrying case,
- ming pad
- · Users' Library and newsletter subscription
- rolls of thermal paper (HP-97 only). Also available are a one-year subscription to the Users' Library and a free Newsletter to keep you abreast of current information.

HP-97 Physical Specifications:

- · Calculator width: 228 mm (9") . Calculator depth: 203 mm (8")
- Calculator height: 63 mm (2.5")
 Calculator weight: 1.13 kg (2.5 lb.)
 Recharger weight: 268 g (9.5 oz.)

- AC Power Requirement: 90-120V or 220 ± 10%, 50 to 60 Hz
 Battery Power Requirement: 5.0 Vdc nickel cadmium rechargeable battery pack



| | | | ACI |
|-------------------------------------|----------|----|-------|
| HP-67/97 Application Pacs | | Pa | |
| HP-67 Standard Pac | HP673101 | \$ | 35.00 |
| HP-67 Standard Pac—Spanish | HP673105 | \$ | 35.00 |
| HP-97 Standard Pac | HP973101 | \$ | 35.00 |
| HP-97 Standard Pac—Spanish | HP973105 | \$ | 35.00 |
| Business Decisions Pac | HP973144 | \$ | 35.00 |
| Civil Engineering Pac | HP973195 | \$ | 35.00 |
| Clinical Lab & Nuclear Medicine Pac | HP973165 | \$ | 35.00 |
| Electrical Engineering Pac I | HP973131 | \$ | 35.00 |
| Games Pac | HP973185 | \$ | 35.00 |
| Math Pac I | HP973121 | \$ | 35.00 |
| | | | |

| Statistics Pac I | HP973111 | \$ 35.00 |
|-------------------------------|----------|-------------|
| Survey Pac I | HP973175 | \$ 35.00 |
| HP-34C/37E/38E Applicatio | n Books | |
| Standard Applications | HP340022 | \$ 5.00 |
| Standard Applications—Spanish | HP340023 | \$ 7.00 |
| Mathematics Applications | HP340032 | \$ 10.00 |
| Statistics Applications | HP340033 | \$ 10.00 |
| Surveying Applications | HP340034 | \$ 10.00 |

Mechanical Engineering Pac I

Navigation Pac

| mstruction manuals. | | |
|---|----------|-------------|
| Student Engineering Applications | HP340035 | \$ 10.00 |
| HP-37E, HP-38E/C "Your HP Financial Calculator" | HP 5296 | \$ 3.00 |
| Real Estate Applications | HP380024 | \$ 5.00 |
| Lending, Savings & Leasing Appl | HP380025 | \$ 5.00 |
| Investment Analysis & Statistics | HP380026 | \$ 5.00 |
| Investment Analysis & Statistics Applications—Spanish | HP380027 | \$ 7.00 |
| Marketing & Forecasting Appl | HP380049 | \$ 5.00 |
| Real Est II (Income Prop Analysis) | HP380051 | \$ 10.00 |
| HP-38E/C Personal Finance Appl | HP380052 | \$ 5.00 |

HP Accessories.



| Calculator/Printer Supplies | | | Transie |
|---|----------------------|----|-----------------|
| Blank Program Cards for 82104A Card Reader, HP-67, HP-97, HP-65 | | | |
| 40 Card Pac with Holder | HP973141 | \$ | 20.00 |
| 120 Card Pac with 3 Holders 1000 Card Pac (No Holders) | HP973143 HP973206 | \$ | 50.00 250.00 |
| Thermal Printing Paper for HP-10, | HF973206 | 2 | 250.00 |
| HP-19C (6 rolls) | HP82051A | \$ | 8.00 |
| Thermal Printing Paper for 82143A Printer/Plotter, HP-97, | | | |
| HP-92, HP-91 (6 rolls)—Blue | HP82045A | \$ | 10.00 |
| Thermal Printing Paper for 82143A and 82162A Printer/Plotter (6 rolls)—Black | HP82175A | \$ | 12.00 |
| 3 Program Card Holders for 82104A Card Reader, HP-67, HP-97, HP-65 | HP973142 | \$ | 15.00 |
| Program Pad for HP-19C, HP-29C, HP-25, HP-25C, HP-33E/C, HP-34C, HP-38E/C, HP-65, HP-67, HP-97 | HP 973154 | Ś | 4.00 |
| | 111 373134 | _ | 4.00 |
| Battery Pack HP-31E, HP-32E, HP-33E/C, HP-34C. | | | |
| HP-37E, HP-38E/C | HP82109A | \$ | 12.00 |
| HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80 | HP82001B | \$ | 15.00 |
| 82143A Printer/Plotter, HP-97, | LIBORGOOM | | 05.00 |
| HP-92, HP-91 | HP82033A HP82052A | \$ | 30.00 |
| HP-10, HP-19C HP-21, HP-22, HP-25, HP-25C, | HF82052A | 2 | 30.00 |
| HP-27, HP-29C | HP82019B | \$ | 12.00 |
| Reserve Power Pack | | | 100000 |
| HP-31E, HP-32E, HP-33E/C, HP-34C, HP-37E, HP-38E/C | HP82103A | \$ | 30.00 |
| HP-67, HP-35, HP-45, HP-55, HP-65, HP-70, HP-80 | HP82004A | \$ | 40.00 |
| 82143A Printer/Plotter, HP-97, HP-92, HP-91 | HP82037A | \$ | 60.00 |
| HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C | HP82028B | \$ | 30.00 |
| Recharger / AC Adapter | No. of the last | | |
| HP-31E, HP-32E, HP-33E/C, HP-34C, HP-37E, HP-38E/C (110 Vac) | HP82087B | \$ | 12.50 |
| HP-31E, HP-32E, HP-33E/C, HP-34C, HP-37E, HP-38E/C (Euro 220 Vac) | HP82090B | \$ | 20.00 |
| HP-67, HP-35, HP-45, HP-55, HP-65, | 111 020300 | _ | 20.00 |
| HP-70, HP-80 (110/220 Vac Switchable) | HP82002A | \$ | 35.00 |
| 82143A Printer/Plotter, 82120A (HP-4 | | * | 50.00 |
| HP-97, HP-92, HP-91, HP-10, HP-19C (110 Vac) | HP82059B | \$ | 12.50 |
| 82143A Printer/Plotter, 82120A (HP-4 | 11). | | |
| HP-97, HP-92, HP-91, HP-10, HP-19C (Euro 220 Vac) | HP82066B | \$ | 25.00 |
| HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C (110 Vac) | HP82041A | \$ | 15.00 |
| HP-21, HP-22, HP-25, HP-25C, HP-27, HP-29C (110/220 Vac Switchable) | HP82026A | é | 20.00 |
| Security Cradle or Cable | 111 02020A | | 20.00 |
| HP-67, HP-65 | HP82015A | \$ | 65.00 |
| 82143A Printer/Plotter, HP-97, HP-92, HP-91 (Cable) | HP82044A | \$ | 20.00 |
| Soft Case | | | |
| HP-11C, HP-12C HP-31E, HP-32E, HP-33E/C, HP-34C, | HP82174A | \$ | 5.00 |
| HP-37E, HP-38E/C | HP82110A | \$ | 5.00 |
| HP-41 (plus card reader 82104A) | HP82111A | \$ | 10.00 |
| HP-67, HP-65 (soft vinyl) | HP82053A | \$ | 10.00 |
| HP-97, HP-92, HP-91 HP-29C | HP82035A HP82027A | \$ | 8.00 |
| HP-10, HP-19C | HP82064A | \$ | 8.00 |
| | 111 02004M | 0 | 0.00 |

| HP320001 Owner's MnlENG | LISH | | 4. | 00 |
|--|---------------|-----|------------|-------|
| Owner's Manual/HP-67 HP670011 Owner's MnlENG | LISH | | 25. | 00 |
| HP670012 Owner's MnlFRE | NCH | | 30. | 00 |
| HP670013 Owner's MnlGER HP670014 Owner's MnlITA | LIAN | | 30. | |
| HP670015 Owner's MnlSPA | NISH | | 30. | |
| Owner's Manual/HP-97 | ANESE | | 30. | 00 |
| HP970001 Owner's MnlENG | LISH | | 25. | |
| HP970002 Owner's MnlFRE HP970003 Owner's MnlGER | | | 30. 30. | |
| HP970004 Owner's MnlITA | LIAN | | 30. | 00 |
| HP970005 Owner's MnlSPAN HP970006 Owner's MnlJAP | NISH ANESE | | 30. 30. | |
| HP970008 Owner's MnlPOR | TUGUESE | | 30. | |
| Owner's Manual/Digital Car HP610002 Owner's Mn1ENG | LISH | | 10. | 00 |
| HP610003 Owner's MnlGER | MAN | 100 | 15. | 00 |
| HP610004 Owner's Mn1FRETHP610005 Owner's Mn1ITAL | NCH LIAN | | 15. | |
| HP610006 Owner's MnlDUT | CH | | 15. | |
| Series E/C Application Books | | | | 1 |
| HP-32E, HP-33E/C, HP-34C | | | | |
| "Solving Problems with Your | | | | |
| Hewlett-Packard Calculator" | HP5267 | \$ | 3 | 3.00 |
| HP-33E/C Standard Applications | HP330067 | \$ | | - 00 |
| | HP330068 | \$ | _ | 5.00 |
| Standard Applications—Spanish Mathematics Applications | | \$ | - | 7.00 |
| | HP330030 | \$ | _ | 5.00 |
| Statistics Applications Student Engineering Applications | | 5 | _ | 5.00 |
| Student Engineering Applications | HP330032 | S | _ | |
| Other Application Books | HF330033 | 9 | - | 5.00 |
| Other Application Books HP-11C Solutions Handbook | 110110000 | • | 2/ | 200 |
| HP-12C Solutions Handbook | HP110009 | \$ | - | 0.00 |
| HP-41C Standard Applications | HP120009 | \$ | _ | 0.00 |
| HP-41C Standard Applications— | HP410300 | 9 | - | 5.00 |
| Spanish Spanish | HP410132 | \$ | 10 | 0.00 |
| Owner's Handbooks | 1376 - 14 | | | |
| HP-11C | HP110001 | \$ | 10 | 0.00 |
| HP-11C—Spanish | HP110005 | \$ | _ | 5.00 |
| HP-12C | HP120001 | \$ | - | 0.00 |
| HP-12C—Spanish | HP120005 | \$ | _ | 5.00 |
| HP-32E | HP320001 | \$ | _ | 1.00 |
| HP-32E—Spanish | HP320017 | \$ | | 5.00 |
| HP-33E/C | HP330039 | \$ | | 8.00 |
| HP-33E/C—Spanish | HP330040 | \$ | _ | 2.00 |
| HP-34C | HP340001 | \$ | - | 5.00 |
| HP-34C—Spanish | HP340002 | \$ | _ | 0.00 |
| HP-37E | HP370018 | \$ | | 3.00 |
| HP-37E—Spanish | HP370002 | \$ | _ | 2.00 |
| HP-38E/C | HP380038 | \$ | 15 | 5.00 |
| HP-38E/C—Spanish | HP 380039 | \$ | 20 | 0.00 |
| HP-41C/CV | HP410313 | \$ | 15 | 5.00 |
| HP-41C/CV—Spanish | HP410318 | \$ | _ | 0.00 |
| HP-41 Guide for Experienced Users | HP410328 | \$ | _ | 5.00 |
| 82104A Card Reader | HP040001 | \$ | 5 | 5.00 |
| 82104A Card Reader—Spanish | HP040008 | \$ | 10 | 0.00 |
| 82143A Printer/Plotter | HP430001 | \$ | 5 | 5.00 |
| 82143A Printer/Plotter—Spanish | HP430007 | \$ | 10 | 0.00 |
| 82153A Optical Wand | HP530001 | \$ | 5 | 5.00 |
| 82153A Optical Wand—Spanish | HP530020 | \$ | 10 | 0.00 |
| 82160A Interface Module | HP600001 | \$ | 10 | 0.00 |
| 82161A Digital Cassette Drive | HP610002 | \$ | 10 | 0.00 |
| 82162A Thermal Printer/Plotter | HP620001 | \$ | 10 | .00 |
| 82166A HP-IL Converter | HP660002 | \$ | 10 | 0.00 |
| 82180A Extended Function/Memory | | | | |
| Module | HP800001 | \$ | | 00.0 |
| HP-67 | HP670011 | \$ | | 00.6 |
| HP-67—Spanish | HP670015 | \$ | _ | 0.00 |
| HP-97 | HP970001 | \$ | _ | 00.8 |
| HP-97—Spanish | HP970005 | \$ | 30 | 0.00 |
| HP-41 Accessories | 110 | | | |
| Standard Application Module | HP 415001 | | \$ | 30.00 |
| Overlay Kit | HP82152A | 13 | \$ | |
| Module Holders (2) | HP82151A | | \$ | 7.50 |
| Multipurpose Rechargeable Battery Pack | HP82120A | | \$ | 35.00 |
| 50 Blank Overlays | HP82172A | | \$ | 55.00 |
| "Creating Your Own Bar Code" Manu | | 19 | \$ | 12.50 |
| HP-IL Accessories | 1. 5000 | | | / |
| Data Mini Cassettes (10 pac) | HP82176A | | \$ | 95.00 |
| .5 meter HP-IL Cable | HP82167A | | \$ | 12.00 |
| 1 meter HP-IL Cable | HP82167B | | \$ | 15.00 |
| | | - | _ | |

5 meter HP-IL Cable

HP82167D

\$ 20.00

| HP610007 Owner's Mnl | -SWEDISH | 15.00 |
|-----------------------|-------------------|--------|
| HP610008 Owner's Mnl. | -SPANISH | 15.00 |
| HP610009 Owner's Mnl. | -JAPANESE | 15.00 |
| HP610010 Owner's Mnl | -PORTUGUESE | 15.00 |
| Owner's Manual/Thei | mal Printer/Plott | er |
| | -ENGLISH | 10.00 |
| HP620002 Owner's Mnl. | -GERMAN | 15.00 |
| HP620003 Owner's Mnl. | -FRENCH | 15.00 |
| HP620004 Owner's Mnl. | -ITALIAN | 15.00 |
| | -DUTCH | 15.00 |
| | -SWEDISH | 15.00 |
| | -SPANISH | 15.00 |
| | -JAPANESE | 15.00 |
| HP620009 Owner's Mnl. | -PORTUGUESE | 15.00 |
| Manual/Extended Fur | | lodule |
| | -ENGLISH | 10.00 |
| | -GERMAN | 15.00 |
| | -FRENCH | 15.00 |
| HP800005 Owner's Mnl. | | 15.00 |
| | -SPANISH | 15.00 |
| | -JAPANESE | 15.00 |
| HP800013 Owner's Mnl. | -DUTCH | 15.00 |
| | -SWEDISH | 15.00 |
| HP800017 Owner's Mnl. | -PORTUGUESE | 15.00 |
| Owner's Manual/HP-3 | | |
| HP340033 Statistics A | | 10.00 |
| | | |



Retail:\$80.00 Shpg Wt:4 lbs

Item No. HP10C

Scientific Features

Modes (degrees, radians, grads)
Sin, Sin⁻¹, Cos, Cos⁻¹, Tan, Tan⁻¹
Rectangular → polar coordinates
Decimal angle → angle in degrees (hrs)/min/sec
Degrees → radians

Log x, 10x

Display modes: fixed, scientific, or engineering notation Automatic over/underflow into scientific

$$\label{eq:mean_def} \begin{split} & \text{Mean and Standard Deviation (1- or 2-variable)} \\ & \text{Summations (Σ_x, Σ_x^2, Σ_y, Σ_y^2, Σ_{xy}, n)} \\ & \text{Linear regression/estimate} \\ & \text{Correlation coefficient} \end{split}$$
Factorial

General Features

+, -, \times , /, y^x , \sqrt{x} , 1/x, x^2 Change sign (CHS) Absolute value Integer/fractional part Storage register arithmetic

Number of data storage registers: 10 (max.)

Programming Features

Maximum number of program lines: 79 Automatic memory allocation
Program review with scrolling (singlestep and backstep) Conditional and unconditional branching Conditional tests: 2 Pause

Operating Features

RPN logic system: Automatic four-register stack Error recovery (LAST X) Continuous Memory Liquid-crystal display Documentation: Owner's Handbook Low battery indicator Long-life disposable batteries

Automatic power off Diagnostic self-check of internal circuitry and keyboard

Error codes/messages
Two modes for display separators and decimal points:

European (1.000,00) U.S. (1,000.00) Status annunciators Maximum number of digits displayed: 10

HEWLETT PACKARD Number of digits used in computation: 10 One-year limited warranty

Up to 960 program steps, or up to 100 memories. Master Library module simply plugs in. Includes 25 different programs in key areas: Math, Statistics, Finance. Blank magnetic cards let you write and record custom programs which may be run individually or integrated with programs in the library modules. Features

· Four types of display testing with an independent test or "t" register.

• Up to 10 additional test registers: Loop, Increment, Decrement.

• Up to 10 user flags available: Set. Reset. Test.

72 useful labels.

· Up to 6 levels of subroutines.

• Flexible addressing: Program Steps: Absolute. Indirect. Label. Data Memories: Direct. Indirect.

Complete program editing: Insert. Delete. Single step. Backstep. No operation.

· 10 user-defined label keys.

· Up to 9 sets of parentheses for up to 8 pending operations.

Over 175 functions and operations in sciences and statistics

Operates with PC-100C

TI Programmable 59 Magnetic card programmable calculator with plug-in Solid State Software[™]



Personal Programming takes

you through each function, each

operation—step-by-step.

The PC-100C printer/plotter turns your TI Programmable 58C or 59 into a quiet, high-speed printing calculator that prints, lists, and traces your program. Just push the LIST key for a printout of the entire program. Push the TRACE key and every calculation that's performed in your program is printed—the full number and the operation.

TEXAS

INSTRUMENT

Printer/Plotter

Your Cost:

Item No. TIPC100C

PC-100C

Retail:\$225.00

characters with a maximum line length of 20 characters. Print headings and data labels. Plot curves and histograms.

Shpg Wt:13 lbs

You can even use the alpha capability to build prompting messages directly into your program. Uses a non-impact, thermal printer. (For a battery-operated compact thermal printer with the same high quality and high performance of the PC-100C, see the new PC-200

Provides alpha and plotting

The NEW TI-57

system for students &

Your Cost:

professionals

capabilities. Prints 64 different

Self-teaching programming

Seven multi-use memories

provide addressable memory loca-

tions to store and recall data. With

memory, the TI-57 LCD stores 48

fully merged steps (up to 150 key-

strokes). Once a program is built, it

can be executed repeatedly by sup-

plying new sets of variables. Com-

puter-like programming functions

help solve repetitive problems

quickly and accurately.

a new, more powerful program

PROGRAMMABLE LCD

TI Advanced Programmable 58C calculator with plug-in Solid State Software[™] and Constant Memory TM



Your Cost:

Shpg Wt: 6 lbs

There are many computer-like features: 170 functions and operations to program up to 480 steps or 60 memories. With 4 types of display testing, 6 levels of sub-routines, plus 9 levels of parentheses, it can handle almost any

Personal Programming shows how to get the most from the 58C.



Item No. TI58C

Features TI's exclusive Solid State Software, preprogrammed modules you slide into the calculator to extend power, flexibility, and range. It is also keyboardprogrammable. Constant Memory feature retains data and program information even when shut off.

TI LCD Programmer

Efficient, time-saving solutions for computer-programming professionals & students

Item No. TILCDPR

Hexadecimal, octal, decimal. Perform fast conversions and calculations in any of these number bases. Enter a number in base 8, 10, or 16. Convert to either of the other bases

Rapidly handle arithmetic computations in all three bases. Ideal for use with any size computer, the TI LCD Programmer uses integer "two's complement" arithmetic in hexadecimal and octal bases.

Three-key memory. Decimal base features signed floating point arithmetic for convenience in dayto-day math. Constant Memory and 10-digit LCD display with mode indicators for decimal, octal or hexadecimal. Easy-to-read tilt-top display. Can multiply the effectiveness of anyone in computer programming. Your Cost



Item No. TI57 Shpg Wt: 6 lbs The TI-57 LCD also has Constant Memory™ that allows

programs and data to be retained even when the power is turned off. The calculator may also be used as a powerful slide rule calculator.

The TI-57 LCD comes with its own carrying case and the "Programmable Calculator Sourcebook, which takes you into the power and fun of programming right away, with stepby-step instructions and examples.

Item No. TIMBA

The MBA TM

Powerful business calculator with statistical & financial functions

and programmability

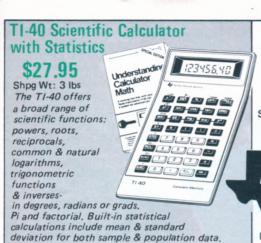
Your Cost:

Preprogrammed functions compute net present value and internal rate of return for variable cash flows. Payment, present value, future value, number of periods or periodic interest rate for ordinary annuities and annuities due. Bond yields and much more. Statistical functions—mean, variance, standard deviation—at the touch of a key.

Plus built-in linear regression with correlation coefficient. Twelve memories. Simple programmability lets it remember a sequence of up to 32 keystrokes.

Calculator Analysis for Business and Finance shows you how to analyze financial situations faster. use statistical methods easier.





TI-30 SLR Light Powered Student Slide Rule

\$27.95 Shpg Wt: 3 lbs 000

SOLAR powered

version of TI-30-II. Features solar light panel instead of batteries. Responds to sunlight or electric light. Offers all the same outstanding features of the TI-30-II. Item No. TI30SLR

TI-1850

123458.30 Calculator for Students \$16.95 Item No. TI302 Shpg Wt: 3 lbs Restyled for easy reading-the TI-30-II is perfect for today's student. Powerful functions make problem-

TI-30-II Pocket Slide Rule

solving easy: roots, reciprocals, powers, common & natural logarithms & trigonometry are built-in. Also features x factorial and degree, radian & grad conversions. LCD display shows 8 digits or 5-digit mantissa & 2-digit exponent, and angular modes in degrees, radians and grads.

Algebraic operating system (AOS) lets you enter formulas as they appearleft to right, Four-key memory & automatic power down feature.

TimeManager ™

Includes Special Edition of "Under-

standing Calculator Math". Item No. T140

Pocket-sized Clock/Calculator Shpg Wt: 3 lbs \$27.95 0000 Shows 0000 0000 continuous display

of time, date, day of week, p.m. Item No. alarm & chime indicators. T12000 Two 24-hour alarms, optional cuckoo' tone for hourly time signal. Calculator mode: 8-digit readout, two-key constant memory, basic functions plus automatic percent & constant. Stopwatch function, lap & elapsed time. Comes with daily appointment pads (re-orderable), smoked

\$19.95

VISOR KIT -Make the MOST of your travel dollars!

Shpg Wt: 4 lbs Item No. TI1850 Five-piece kit clips securely to car visor. Full-function TI-1850 calc lets you monitor efficiency & performance of your car: milage, miles per gallon, travel expenses plus perform all basic calculator

functions including percent & square root. Kit also includes pencil-type tire guage, mechanical pencil & Auto Record Pad to log in your info.

TI-Checkwriter

Item No. TI1880

Handy, side-by-side wallet & calculator

Shpg Wt: 4 lbs

Convenient 6-function calculator swings out from its wallet holder. The stylish leather-like wallet holds checks, balance book, cash, credit cards and a pen in one handy location. Perfect for shopping, etc.

acrylic desk stand, batteries, & owner's manual. TI Converter Kit English/Metric 3-part conversion system



The TI-Converter Kit has 194 built-in conversions for unit measurements of capacity, length, temperature & weight. Convert pounds to kilograms, miles to kilometers, inches to yards, Fahrenheit to Celsius, and much more!

Includes "The Calculator & Converter Handbook" and "Quick Reference Guide

TI-1750-III Deluxe Calculator with Memory ... \$14.95 ... Shpg Wt: 3 lbs ... Item No. TI17503

Large, easy-to-read LCD display shows 8 digits plus overflow, minus & memory signs. Math functions: add-ons, discounts, square roots, percentages. Four-key memory. Automatic power down turns unit off after approx. 4 minutes of non-use.

12345678

Comes in brown vinyl wallet folder with pockets for notes, cards, etc.

TI-1766 SOLAR/LIGHT Powered Ultra-Slim Calculator

\$17.95

Item No. TI1766 Shpg Wt: 3 lbs

SOLAR powered—operates under any normal light and many low-light levels and never needs to store energy. No "On-Off" switch—this is automatic! Sleek, ultra-slim, performs the most common calculations instantly.

Four-key memory, square root key, automatic percent key.

Comes in high-quality vinyl wallet.



TI-1776 LIGHT Powered Card-sized \$17.95 Calculator

3 lbs

TI1776



SOLAR powered—operates under any normal light source indoor & out. Ultra-compact, card-sized, comes in stylish but sturdy metal case. Four-key memory to add, subtract, recall & clear memory. Square root & automatic percent key. TI-1006 LIGHT Powered

All-purpose calculator-SOLAR

Features four-key memory, square

Comes with leather-like vinyl wallet.

powered-operates from any

light source-indoors or out.

root function & automatic

Item No. TI1006

Basic

percent key



Shpg Wt: 3 lbs

Item No. TI1031

TI-1031 Basic Calc

Large, easy-to-read LCD display shows 8 digits plus overflow, decimal point, negative sign & memory indication. Automatic constant Shpg Wt: 3 lbs Four-key memory, percent key & square root key. Automatic power down turns unit

TI-1001 Pocket-portable



\$9.95

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99099

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20000

3000



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Sleekly styled, thin as a pencil-fits easily into pocket or purse. Adds, subtracts, multiplies, divides & square root. square root, Item No. TI1001
Automatic percent & constant. Automatic power down turns unit off after approx. 4 minutes of non-use.

off after approx. 4 minutes of non-use.

TI Professional Business Analyst TM An advanced financial & statistical calculator for the professional graduate business student

The TI Professional Business Analyst has preprogrammed functions for quick and accurate solutions to time value of money calculations, amortization principle balance and interest problems, net present value and internal rate of return with ten variable grouped cash flows, interest rate conversion, and statistical mean, standard deviation and linear regression. Additionally, the calculator features 32 step: of programming which allows even more flexibility in problem-solving.

The TI Professional Business Analyst is accompanied by the Professional Business Analyst Guide, which offers many practical applications on how to fully utilize the calculator's functions and features

Item No. TIBA55

powerful system that goes any-

where. The TI Professional Busi-

ness Analyst comes with its own

tilt-top case and Quick Reference

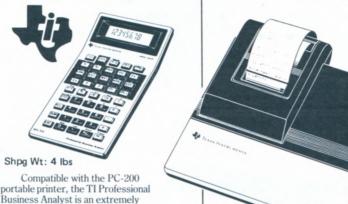
Guide for a quick summary of the

calculator's functions.

\$54.95

TI-BA 55

Your Cost: \$64.95



EXAS INSTRUMENTS

Shpg Wt: 8 lbs Printer for TI-BA 55

This battery operated, quiet, thermal printer is designed to be compatible with the TI Professional Business Analyst™. Connecting via a maneuverable cord to the TI Professional Business Analyst™, the PC 200 offers a hard copy review of calculations as well as fast two lines per second speed.

Item No. TIPC200

The printer commands are easily directed from the calculator keyboard and the calculator-toprinter cord also has an internal storage option in the printer.

The PC 200 has a convenient five character audit trail which identifies calculations or what printed numbers represent (i.e., 1000 PV, 100 PMT, or 10% I). This highly portable and compact printer is an ideal companion for the TI Professional Business Analyst™ in the office, at home or on the road.

Compact, portable printer

TI-55-II Advanced LCD Slide Rule with **Programming**

& Statistics

Your Cost:

\$44.95 Item No. TI55II

TI-55-II Has 112 powerful functions

for professional engineering, math & science applications. Easy keyboard programmability,

including function evaluation & integration features, saves time on repetitive problems. Most needed statistical functions for better data analysis. Use up to 8 memories. Built-in conversion functions plus: roots. powers, reciprocals, trig & hyperbolic functions. Enter data in standard, scientific or engineering notation formats. LCD display has 8-digit mantissa and 2-digit exponent. Indicates calculator mode & angular mode, Revised & expanded "Calculator Decision-Making Sourcebook" included. Shpg Wt: 4 lbs TI-54 Advanced Scientific TI User Value Chart Business Calculator with Tilt-top styling

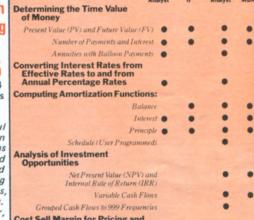


Your Cost: \$36.95 Item No. TI54 Shpg Wt: 4 lbs

The powerful TI-54 has built-in algebraic functions for both real and complex numbers, and hyperbolics and trig

functions with inverses-in degrees, radians or grads-for real numbers. Conversions include polar to rectangular, degrees/minutes, seconds to decimal degrees. & degrees to radians to grads. Constant Memory feature retains data in the 7 storage registers even when the calculator is turned off. The powersaving LCD display shows 8-digit mantissa, 2-digit exponent & 5 other status indicators.

Comes with "Scientific Calculator Sourcebook" with easy 'how-to' format.



Cost Sell Margin for Pricing and **Profit Analysis** Statistical Mean and Standard

Deviation Forecasting through Linear Regression

Programming for Special Application Problems **Printing Capability**

Item No.

00000

00000

TI35SP

TI Business Analyst-IITM **Executive Calculating System**

Student Business Analys A calculator system designed to help students with their husiness math courses Item No. TIBA35

Your Cost:

Shpg Wt: 4 lbs

TI-BA 35

Business Analyst Guidebook 23456.78

Designed specifically for the undergraduate business student, this calculator & Guide can help a student expand his/her knowledge in finance, statistics and accounting. The calc has pre-programmed functions such as: time value of money calculations, amortization balance & interest problems, interest rate conversions, statistical mean & standard deviation as well as every-day math. Used with the "Business Analyst Guidebook" (included)

It briefly explains the concept in question, gives a sample problem & shows how it is solved using the BA-35. This calc also features Constant Memory & Automatic Power Down (turns off after 10 min. non-use).

\$44.95 Shpg Wt: 4 lbs A unique 'systems' approach to financial decision-making TIBA2EX

Analyze alternatives in lease buy options, loan amortizations or sales and earnings forecasts-all in a matter of minutes. The TI-Business Analyst II has the builtin functions you need to help you manage your business or personal financial affairs with ease & accuracy. It computes a wide range of time & money problems, profit margins & complex statistical computations. Comes with "Quick Fact for Business" & "Executive Calculator Guidebook", features 8-digit LCD display & constant memory.

TI-35 Student Math Kit Problem-solving Kit Shpg Wt: 4 lbs with

Slimline TI-35 Scientific Calculator



Your Cost:

Manual & vinyl carrying case.

This powerful 54-function calculator performs most-needed slide rule functions as well as pi, factorial & constant. LCD display with scientific notation. Built-in statistical capabilities include data entry, mean & standard deviation for both sample & population data. Versatile 4-key constant memory feature lets you store, recall, sum & exchange memory with display. Includes the "Student Calculator Math Book", detailed Owner's



Texas Instruments



Quiet thermal _ printer \$67.95

Especially designed for business home managers, it has all the features an executive needs. That means having both a display for fast calculations and a tape produced by a thermal printer.

You'll make quick work of most problems with features like: Four-function memory and independent add register for "dual-memory" capability. Add register also makes the extensions, cross footing, and invoices easier. Automatic constant. And percent key. Item No. TI50402



The compact TI-5010 prints out a permanent copy of your calculations at 1.5 lines per second on 1½ inch plain paper tape-Offers 10-digit LCD display that shows decimal, comma and status indicators.

Printer on/off switch. 4-key memory, date/number key, automatic constant, decimal selector and 00 key make even lengthy calculations easy to enter. Powered by AA penlight batteries or from a standard wall outlet with an optional AC adapter. Batteries and vinyl carrying case included.

SOLID STATE SOFTWARE ((\$40.00 each) TILSTAT **Applied Statistics** TILREI Real Estate & Investment TILAV Aviation Marine Navigation TILSURV Surveying Leisure Library TILSEC Securities Analysis Business Decisions Math/Utilities TILMATH TILELEC **Electrical Engineering** TILRPM **RPM Simulator** Also available: \$55.00

Pool Water Analysis \$45.00

TILPOOL



Switch on the dependable 12-digit mechanical printer, which delivers a fast 2.5 lines per second when a record is needed. An easyto-read, 12-digit vacuum fluorescent display with commas and decimal point lets you save on paper if you wish.

There are enough other features to solve most business and accounting problems like: Longtravel keyboard. Full-function memory. Mark up/down. Decimal point selection. Percent and percent keys. Plus/minus change. And a special dating/numbering key. Heavy-duty construction helps it stand up to the tough day-to-day use. Item No. TI5142

This versatile, quality calculator can increase calculating efficien-

cy in the office or at home with si-

features a memory to store and re-

Display shows M when a number is in memory. Overflow is indicated by an arrow at the left of the display. Calculate percentages,

taxes and discounts. An item count

key for simplified inventory and

calculation of averages. Decimal selector switch positions decimal

at full floating or presents at

lent, effortless operation. Adds, subtracts, multiplies, divides and

TI-5120 Desk-top printing calculator for home or office



A touch operator's dream with many of the convenience features you'd find on a heavy business machine. The sleek, desk-hugging TI-5120 offers a 10-digit printout of your calculations on a 21/4 inch plain paper tape. Features include fourkey memory, independent add reg-ister, automatic percent and constant key, item counter, decimal select and 5/4 round up/down switch. Styled to be lighter and more compact than most business machines, the TI-5120 is perfect for

ease and comfort of use. Large, sculptured keys, long travel keyboard, 10-level keyboard buffering and two-key rollover reduce fatigue and risk of error.

light office work or home use, eco-

nomically priced, and designed for

print/display, uses plain paper Shpg Wt: 12 lbs \$67.95

TI-5130 Sleek desk-top

Item No. 5130

For office or home, the TI-5130 offers all the features of the TI-5120 with the added convenience of a bright 10-digit display. Its easyto-read 6.5mm characters appear in a soft green, vacuum fluorescent light that's never harsh. For economy, the printer on/off switch lets you use standard 21/4-inch plain paper when you need permanent records of your calculations.

Designed for the touch operator, the TI-5130 has large, sculptured keys, long travel keyboard, 10-level keyboard buffering and two-key rollover. Perfect for all but the most demanding accounting problems, the TI-5130's features include 4-key memory, independent add register, percent and constant, date/non-add key, decimal select, automatic 5/4 rounding up/down.

TI-5100 Attractive display calculator for home or office



two places. Large 10-digit green vacuum fluorescent display (with comma) for easy readability.

Item No. TI5100

Your Cost

call numbers.

| ACCESSO | PRIES | |
|----------|---|-------|
| TI20225 | Three-roll pack of thermal paper for TI-5015, TI-5040, and TI-5040-II | 2.00 |
| TI25000 | Five-roll pack of thermal paper for TI-5000 | 2.25 |
| T127225 | Three-roll pack of thermal paper for TI-5015, TI-5040, and TI-5040-II | 4.00 |
| TI9173 | TI-5010 AC Adapter | 6.95 |
| TI9174 | TI-5000 AC Adapter | 6.95 |
| TI55142 | TI-5142 Ink Roller, (1) per blister card | 3.30 |
| TI55130 | TI-5130 & TI-5120 Ink Roller, (1) per blister card | 4.25 |
| TI9130A | 120 volt AC adapter/charger for use with BP-1A battery pack | 9.00 |
| TI9130SW | 120/240 V AC adapter for BP-1 or BP-1A | 14.75 |
| TI9131 | 120 V AC adapter/charger for use with TI-58/58C/59 | 6.59 |
| TI9132 | 120 volt AC adapter/charger for use with BP-7 or BP-8 battery packs | 6.00 |
| TIBC59 | 40 blank cards and card case for TI-59 | 15.00 |
| TIBP1A | Battery pack for TI-58/58C/59 | 10.50 |
| TIBP7 | Battery pack for TI-55, TI-57. Also available in brown color for The MBA as BP-7-BRN | 8.00 |
| TIBP8 | Battery pack for SR-40 and TI-Business Analyst | 8.00 |
| TIDC9105 | 12 volt adapter/charger for BP-1A | 27.00 |
| TIPW5859 | Programming Workbook for TI-58/58C/59 | 7.95 |
| TIRK2 | Rechargeable kit for TI-30 | 12.00 |
| TI103026 | Three-roll pack of thermal paper for PC-100C | 10.00 |

Pocket-sized print/display calculator \$39.95 TI-5000

TI-5000 features an easy-to-read 10 digit liquid crystal display, solid key feel, large add bar, and battery-saving Automatic Power Down™ that turns the calculator off after ten minutes of non-use.

The TI-5000 also can be used with an optional AC adapter.

SPECIALTY PAKETTES (\$10.00 each)

TIPSECUR Securities (TI-59 required)
TIPSTAT Statistical Testing IPCIVIL Civil Engineering TIPELEC Electronic Engineering TIPBLACK Blackbody TIPOGE Oil/Gas/Energy (req. TI-59 & PC-100 A/C)
TIPPROG Programming Aids
TIPPRNTR Printer Utility Astrology 59 Fun (TI-59 req) 3-D Graphics TIPAST TIPFUN TIP3D TIPMATH Math TIPFLUID Fluid Dynamics Lab Chemistry (TI-59 req) Production Planning TIPCHEM TIPPROD Marketing/Sales Quality Assurance I TIPOAII Quality Assurance II

 12-digit vacuum fluorescent display and impact printer.
 Automatic punctuation for printer and display.
 Full-size 28-key keyboard.
 Tenlevel keyboard buffering for rapid entry of numbers and operations.
 Full four function "live" memory.
 Independent add register.
 Decimal setting: F, A 0, 1, 2, 3, 4, 5 and 6.
 Percentage key and addin/discount.
 Grand total register.
 Item count key.
 Reverse and backspace key.
 Non-add key for dating and numbers.
 3-position switch for automatic rounding.
 Automatic constant.
 Add mode with overside.
 Product/quotient calculation.
 Printerscand 28 lipses per speed 2.8 lipses per speed 2.8 lipses per speed. Heavy override. • Product/quotient calculation. • Print speed 2.8 lines per second. • Uses 2-color ribbon with negative entries and results printed in duty! red. • Single and double zero. • Non-print capability. • Uses standard 2¼ " paper (1 roll included). • 9"W x 12"L x 3¼ "H. Commercial TI-5219 Item No. TI5219 Shpg Wt:13 lbs grade 12-digit print/display with memory Your Cost \$164.95 Retail:\$205.00 Shpg Wt:13 lbs Item No. TI5215 TI-5215 12-digit printing calculator Your Cost with memory \$134.95 Retail:\$175.00

> 12-digit impact printer with automatic punctuation and two-column audit.
> 28 touch keys including large total, plus, minus, zero and clear audit. • 28 touch keys including large total, plus, minus, zero and clear entry. • Ten-level keyboard buffering permits rapid entry and operation. • Full four-function ''live'' memory. • Automatic constant. • Independent add register. • Add-mode with override. • Automatic rounding. • Percent key and add-on discount. • Two-key rollover. • Double zero key. • Decimal setting: F, O, 1, 2, 3, 4, 5 and 6. • 2.8.lines per second print speed. • Power on light. • Uses 2-color ribbon with negative entries and results printed in red. • Uses standard 2½ " paper (1 roll included). • 9 "W x 12"L x 3½ "H.

Commercial grade-heavy duty!

• 12-digit vacuum fluorescent display. • Automatic punctuation for both printer and display. • Status indicator for error or overflow. • Full size 24-key "Touch Operator" keyboard. • Ten-level keyboard buffering permits rapid entry of numbers and operations. • Independent add register and grand total register. • Ten-level keyboard buffering and two-key rollover features for operation at top speed. • High speed printer produces 2.8 lines per second. • Non-print capability. • Decimal selection F, A, O, 1, 2, 3, 4, 5 and 6. • Percent key and add/on discount. • Automatic constant. • Automatic rounding switch. • Double zerowy. • Add mode with override. • Uses 2-color ribbon with negative en key. • Add mode with override. • Uses 2-color ribbon with negative entries and results printed in red. • Uses standard 2½ " paper (1 roll included). • 9" x 12" x 3".

TI-5217 Item No. TI5217 12-digit print/display commercial grade Heavy duty! Your Cost

Shpg Wt:13 lbs \$144.95

Retail:\$190,00



Item No. TI5213 TI-5213 12-digit printing calculator Your Cost

\$124.95 \$160.00 Commercial grade-heavy duty!

• 12-digit impact printer with automatic punctuation and two column audit trail. • "Touch operator" 24 key fullsize keyboard. • Ten-level keyboard buffering permits rapid entry of numbers and operations. • Independent add register. • Three-position automatic rounding switch. • Decimal select: F, A, O, 1, 2, 3, 4, 5 and 6. • Automatic item count. • Percentage key and add-ons/discounts. • Non-add key for dating and numbering. • Two-key rollover. • Double zero key. • Add mode with override. • Power on light. • Print speed 2.8 lines per second. • Uses 2-color ribbon with negative entries and results printed in red. • Uses standard 2¼ " paper (1 roll included).

Entry/Playback

Slim programmable with 24 digit Dot Matrix

EL-550 Hand-Held Scientific Printer

Your Cost

Retail:\$79.95 SHARP

Item No. SHEL550 Hand-held 10-Digit Scientific Printer

Hand-held 10-Digit Scientific Printer
Full featured 46 scientific printer with statistics functions
Some of 46 scientific functions included: *Trigonometric
(sin, cos, tan) and their inverses *Exponential (base 10 and
base e) and their inverses (togarithms) *Factoral (n!) *3
angle modes (degree/radian/grad) *Mean, sum and standard deviation *Power (y") and its inverse ("x root of y")
*Degree/Min/Jsc. *Degree conversions
Other Features: Independently accessible 3-key memory
*15 levels of parentheses and 3 pending operations
*Automatic Power-Off!" for extended battery life
*Operates on 3" for extended battery life
*Operates on 3" comes with a pouch and paper rolls
Dimensions: 3" (W) × 7/8" (H) × 6-3/8" (D)

Shpg Wt:5 lbs

EL-5100 Item No. SHEL5100

Alphanumeric Display/Direct Formula

The calcualtor with direct formula entry that writes an equation and remembers it AER (Algebraic Expression Reserve) permits the user to enter 5 formulas with up to 80 program steps directly as they are written and remembers them (with memory retention) - Wide variety of 61 scientific functions including combination (nCr), permutation (nPr), and 2-variable statistics filtnear regression) *Playback memory permits the user to check and make corrections in 24-digit dot matrix alphanumeric display even after the calculation is done *10 data memories with memory retention *Dissplay cornal exchange (F*=E key) and decimal setting (TAB key) *15 levels of parentheses and 8 pending operations *Auto Power-Off*** Complete with case and batterels Dimensions: 6-7/8" (W) × 3/8" (H) × 2-3/4" (D)

Retail:\$89.95 Your Cost

Shpg Wt:5 lbs

"Thin Man" Wallet-Size Programmable Item No. SHEL5103 with 13-Digit Dot Matrix Alphanumeric Display

Your Cost \$56.9 EL-5103

The calculator with direct formula entry that writes an equation and remembers it AER (Algebraic Expression Reserve) permits the user to enter a formula up to 48 program steps directly as it is enter a formula up to 48 program steps directly as it is enter a formula up to 48 program steps directly as it is variety of 53 scientific functions including 2-variable statistics (linear regression)prediction) + Even after calculation is done, the EL-5103 remembers the formula and permits the user to see it in the 13-digit dot matrix alphanumeric display for checking and making corrections (Playback) + 6 data memories with memory retention +4 different display format control functions (fixed/scientific engineering display and decimal settling) +15 levels of parentheses and 8 pending operations *"Automatic Power Official Complete with wallet and battereis.

Dimensions: 2-23/32 (W) × 5/16 (H) - 5-1/32 (D) Sh

Shpg Wt:5 lbs



Dimensions: 6-7/8*(W) × 3/8*(H) × 2-3/4*(D)

10-Digit "Thin-Man" Wallet-Size with 128 Program Steps/10 Data Memories and Linear Regression
Super scientific calculator with Multi Formula Reserve and 2-variable statistic in addition to performing 61 scientific functions, the multi formula reserve permits the user to store up to 128 program steps which can be separated in up to 4 independent formulas. These formulas can be accessed independently and the EL-512 will remember them (with memory retention) Other Features: Easy-to-read 10-digit fliguid crystal display with scientific notation expression * Independently accessible 3-key memory plus 9 storage memories (with memory retention) * 15 levels of parentheses and 8 pending operations * Hyperbolic (sinh, cosh, tanh) and their inverse * Hexadecimal coversion * Tirgonometric (sin, cos, tan) and their inverse * Rectangular/polar co-ordinate conversion * Exponential (base 10 and base e) and their inverse * Rectangular/polar co-ordinate conversion * Exponential (base 10 and base e) and their inverse (Logarithm) * Power (v)* and its inverse ("x root of y") * Factorial (n1) * 2-variable statistics (Mean, sum, standard deviation) Linear regression/prediction/Degree/flin/Sec. degree conversions * 3 angle mode (Degree/Radian/Grad) * 0-lisplay format exchange (F+E Key) * Decimal setting (TAB Key) * "Automatic Power Off" * Complete with wallet and batteries Dimensions: 2-23/32 (W) * 11/32 (H) * 5-1/32 (D) * 11/

EL-512

10-digit "Thin Man"™ Wallet-Size with 38 Program Steps/5 Data Memories

Item No. SHEL507

Item No. SHEL507 Your Cost Full-reatured "Programmable" scientific calculator with built-in statistics functions. In addition to performing 44 scientific functions, the EL-507 permits the user to store up to 38 program steps formula and remember them (with memory retention). Other Features: 10-digit liquid crystal display with scientific notation expression - Trigonometric (sin, cos, tan) and their inverses + Hyperbolic (sinh, cosh, tanh) - Rectangular/polar co-ordinate coversions - Exponential (base) to ano base e) and their inverses (Logarithms) - 3 angle models (degree/radian/grad) - Power (y') and its inverse (coate) - Factorial (n') - Mean, sum and standard deviation - Degree/Min Degree conversions - Olisplay format exchange (F-E Key) - Decimal setting (TAB Key) - 15 levels of parentheses and 7 pending operations - Independently accessible 3-kay memory plus 4 storage memories (with memory retention) - "Automatic Power-Off-" - Complete with wallet and batteries.



EL-507

EL-1124 SOLAR Item No. Semi-Desk-Top SHEL1124 Shpg Wt:5 lbs

Your Cost \$54.95

Trim, new size in a semi desk-top, solar-powered model that can be carried anywhere

*Operates on built-in silicon solar cells which receive their power from natural and artificial light (no batteries to ever run down) *Four basic arithmetic operations with 10-digit, easy-to-read liquid crystal display *Independently accessible 4-key memory *Full-floating decimal point mode of operation *One-touch percent key for ado-indiscount calculations *Square root key and convenient right shift key *Easy-to-use large plus and zero keys *Constant, power, reciprocal, and chain calculations *Mark-up key to simplify computing of mark-up and mark-down on they solar of merchandise *GT key accumulates individual totals to obtain one grand total

Dimensions: 5-1/32 (W) × 21/32 (H) × 6-15/16 (D)



EL-410 Wallet Size Calc w/Calendar & Large Display-Exhibits a month at a time!

Your Cost: \$49.95

Shpg Wt: 3 lbs

Clock/calculator with extra large display exhibits an entire month **
- Performs as a 4-function basic calculator with an independently accessible 3-key memory, and as a 12- or 24-hour cycle accurate timepiece with two melodic alarms, the EL-410 features an extra-large display which can simultaneously exhibit any of its time functions and any one entire month selected from the years 1901 to 2099

Other Features: *Timer and alarm to remember appointments, meetings, and other time-related events *A stopwatch and an hourly chime *11 musical notes accompany entry of numbers Dimensions: 2-5/8'(W) × 5/16'(H) × 4-1/2'(D)



Your Cost:

Your Cost:

\$84.95

Your Cost:

\$84.95

Item No. SHEL1193

Shpq Wt: 3 lbs

Clock calculator with day, date, and precision stopwatch *Performs as a 4-function basic calculator with an independently accessible 3-key memory and serves as an accurate time-piece, displaying the time in hours, minutes and seconds (blink inig dots). As a calendar, indicates the day of the week, as well as the date
Other Features: *A pleasant alarm to remember meetings, appointments, and other time-related events *Easy-to-read 8-digit, liquid crystal display
Dimensions: 2-1/8' (W) × 7/32' (H) × 3-19/32' (D)

EL-1193

10-Digit Desk-Top Print/Display with Two-Color Printout

Shpg Wt: 10 lbs

Sleek, 10-digit desk-top print/display, AC/DC powered and 2-color printout

Sleek. 10-digit desk-top print/display, AC/DC powered and 2-color printout

*Full printout of 12 numerals and 2 symbols on standard-size paper roll *Negative numbers printed in red are clearly identified *Easy-to-read 10-digit fluorescent display, each roup of 3 digits clearly punctuated *Operates in non-print (display only) mode for conserving paper *Independently accessible 4-key memory *Add-bar/subtract key-top design to minimize human error *Non-add/sub-total key allows for printing desirable intermediate calculations *Fixed decimal (3-2-0), constant (K), and add (A) operating modes (latter facilitates entry of dollar-and-cents figures) *One-touch percent key for add-on/discount calculations *Power repripocal and chain calculations *Power is provided by 4 "AA" batteries or AC adaptor (option) *Includes dust cover and paper roll
Dimensions: 7-1/16 (W) × 2 (H) × 8-3/16 (D)

EL-1182A 10-Digit Desk-Top Print/Display

Compact desk-top print/display, 10-digit calculator designed for standard office work.

*Full printout of 10 numerals and 2 symbols on standard in the printout of 10 numerals and 2 symbols on standard in the printout of 10 numerals and 2 symbols on standard standard in the printout of 10 numerals and 10 standard in the printout of 10 numerals in the printout of 10 numer

EL-1195 10-Digit Print/Display Wallet-size Calculator

Your Cost: \$56.95

"Thin Man": "print/display calculator with wallet
*Slim and light enough to carry in shirt pocket *Full printoul of 10 numerals on thermal printing paper *Easy-toread 10-digit liquid crystal display, each group of 3 digits
clearly punctuated *Operates in non-print (display only)
mode for conserving paper *Floating as well as fixed
decimal point mode of operation *Add-mode (A) to
facilitate entering of dollar-and-cents figures
*Independently accessible 3-key memory *Constant and
add-on/discount calculations *Comes with Ni-Cd
rechargeable battery, AC adaptor/charger, attractive wallet
and paper (II)
Dimensions: 3'(W) × 9/16'(H) × 5-1/32'(D)

EL-8180 Hand-Held Print/Display

8-digit printing calculator with display
*Full printing to a numerals on thermal printing paper
*Easy-to-read 8-digit ilquid crystal display *Operates in
non-print (display only) model for conserving paper
Other Features: -Auto Power-Off** (unction preserves balteries *Independently accessible 3-key memory *Onetouch percent and square root keys *Comes with a pouch
and paper rolls *Operates on 3 **AA** batteries (supplied)
and AC outlet (with optional adaptor)
Dimensions: 2-3/4* (W) × 7/8* (H) × 5-7/8* (D)



Your Cost:

Item No. SHEL8180

Item No. SHEL410 EL-450 CLOCK/CALENDAR CALCULATOR Your Cost:

Item No. SHEL408

Item No. SHEL1182

Shpg Wt: 9 lbs

Shpg Wt: 6 lbs

Shpg Wt: 6 lbs

Item No. SHEL1195

\$29.95

Clock calculator with day, date, and precision stopwatch • Performs as a 4-function basic calculator with an independ-ently accessible 3-key memory and serves as an accurate timepiece, displaying the time in hours, minutes and seconds, (blinking dols). As a calendar, indicates the day of the week,

(blinking oots). As a calendar, indicates the day of the week as well as the date

Other Features: *A pleasant alarm to remember meetings, appointments, and other time-related events *Easy-to-read 8-digit, liquid crystal display

Dimensions: 2-18(W) *732(H) × 3-19/32(D)



Item No. SHEL2188

Item No. SHEL1197

Item No. SHEL1192

Item No. SHEL450

EL-2188 12-Digit Desk-Top Print/Display

Compact desk-top print/display, 12-digit calculator with fast printing (2.5 lines per second)

*Full printout of 12 numerals and 2 symbols on standard size paper roll *Easy-to-read 12-digit bright green display, each group of 3 digits clearly punctuated *Operates in non-print (display only) mode for conserving paper *Add-bar/subtract key-top design to minimize human error *Non-add/sub-total key allows for printing desirable intermediate calculations *Floating and fixed decimal (3-2-0), constant (K), and add (A) operating modes (later facilitates entry of dollar-and-cents figures) *Independently accessible 4-key memory *One-fouch percent key for add-on/discount calculations *Power, reciprocal and chain calculations *Item counter totals number of entries (useful for computing averages) *Operates on ordinary AC outlet *Includes dust cover and paper roll
Dimensions: 7-1/16 (W) × 2-7/32 (H) × 9-1/4* (D)

Your Cost: \$109.95 Shpg Wt: 10 lbs

EL-1197 DELUXE 10-Digit SHARP Print/Display Desk-Top Model Your Cost:

Compact desk-top print/display, 10-digit calculator designed for standard office work
*Full printout of 10 numerals and 2 symbols on standard size paper roll *Easy-to-read 10-digit bright green display, each group of 3 digits clearly punctuated *Operates in elindependently accessible 4-key memory *Floating and fixed decimal (3-2-0), constant (K), and add (A) operating modes (latter facilitates entry of dollar-and-cents figures) *Add-bar/subtract key-top design to minimize human error Non-add/sub-total key allows for printing desirable intermediate calculations *One-touch percent key for add-on/discount calculations *Power, reciprocal and chain calculations *Operates on ordinary AC outlet *Includes dust cover and paper roll dust cover and paper roll
Dimensions: 7-1/16" (W) × 2-7/32" (H) × 9-1/4" (D)

\$84.95

Shpg Wt: 9 lbs

EL-1192 10-Digit Desk-Top Print/Display, \$66.95 AC/DC powered

Steek, 10-digit desk-top print/display, AC/DC powered

*Full printout of 10 numerals and 2 symbols on standard
size paper roll *Easy-to-read 10-digit liquid crystal display,
each group of 3 digits clearly punctuated *Operates in
non-print (display only) mode for conserving paper *Independently accessible *4-key memory *Add-bar/subtract keytop design to minimize human error *Non-add/sub-total
key allows for printing desirable intermediate calculations
*Fixed decimal (3-2-0), constant (K), and add (A) operating
modes (latter facilitates entry of dollar-and-cents figures)
*One-touch percent key for add-on/discount caiculations
*Power, reciprocal and chain calculations *Power is provided by 4 "AA" batteries or AC adaptor (option) *Includes
paper roll
Dimensions: 7-1/16" (W) × 2"(H) × 8-3/16" (D)

**Shpg Wt: 10 lbs

EL-1188S

Hand-Held Print/Display with Inboard Paper Holder

Item No. SHEL1188 10-Digit Calculator

Hand-held print/display 10-digit calculator

*Full printout of 10 numerals and symbols on plain paper tape *Built-in paper holder *Easy-to-read 10-digit liquid crystal display, each group of 3 digits clearly punctuated *Operates in non-print (display only) mode for conserving paper *Floating as well as fixed decimal point mode of operation *Independently accessible 3-key memory *Constant, power, reciprocal, chain, and add-on/discount calculations *Operates on 3 "AA" batteries (supplied) *Comes with paper rolls."

• Comes with paper rolls Dimensions: 3-5/16" (W) × 1-5/16" (H) × 7-5/32" (D)



Shpg Wt: 6 lbs

CT-455E Electronic Digital Alarm Clock

Precision timepiece with alarm slips into vest pocket or purse.

Fashionably and elegantly designed, slim electronic pocket clock.

Extra-large liquid crystal display exhibits the time in hours, minutes, and seconds (blinking dots) with AM and PM indicated.

Easy-to-set alarm can be used to remember meetings, appointments and other time-related events.

Functions to within an accuracy of ± 1.5 seconds each day.

 Runs for approximately 18 months on a single LR-44 alkaline manganese battery

Comes with attractive soft case.

Shpg Wt: 2 lbs

Your Cost:



Item No. SHCT455E

EL-827 8-Digit Calculator **Business card-sized with Music!**

Your Cost: \$19

Business card-sized 8-digit basic calculator with electronic musical keyboard

*In addition to the 4-basic arithmetic functions, this easyto-read liquid crystal display calculator emits eleven
distinct musical notes (id. si. do, re. m., fa, sol, la, si. do,
re) to (optionally) accompany entry of numbers
*Independently accessible 3-key memory in conjunction
with Memory Safe Guard** feature (protects memory when
power is off) can be used to store simple tunes
Other Features: *Percent key for add-on/discount calculations

EL-620 Voice-Synthesized Calculator Hand-held 8-digit basic calculator with voice-synthesized

ensions: 2-1/8 (W) × 3/16 (H) × 3-19/32 (D)

HARP



Shpg Wt: 2 lbs

Your Cost: \$64.95 Item No. SHEL620

Item No. SHEL827



Shpa Wt: 4 lbs

Comes with its own attractive pouch Dimensions: 2-1/8" (W) × 1/16" (H) × 3-25/32" (D) EL-640 Talking Clock/Calculator

EL-835 Solar Super-Thin

Never Needs Batteries!

Calculator-

Your Cost:

\$39.95

Shpg Wt: 2 lbs

Wallet-size calculator that turns time and calculations into

Solar-powered, super-thin (1/16.) calculator

*Thinnest (1/16.) solar calculator reflects Sharp's most advanced technology *Operates on built-in silicon solar cells which receive their power from natural and artificial light (no batteries to ever run down) *Four basic arithmetic operations with 8-digit, easy-to-fead liquid crystal display *Independently accessible 4-key memory *Full-floating decimal point mode of operation *One-touch percent key for fast add-on/discount calculations *Square root key *Constant, power, reciprocal and chain calculations *Luxurious and elegant design in an all-metal case *Comes with its own affractive pouch

spoken work functions: *Announces the year/month/day/day of the week from years 1901 to 2099. or hour/minute *AM/PM.12-hour cycle *Automatic time announcement on the hour *Daily alarm with 10- and 5-minute intervals before the clock's alarm goes off *Countdown timer function with melody to remember meetings, appointments and other time-related events *Optional time announcement every 5 minutes. meetings, appointments and other time-related events

*Optional time announcement every 5 minutes

Audible calculator functions: *Basic 4-function calculator
with easy-to-read 8-dight liquid crystal display *Voice announcement by 3 digits (hundreds, thousands, millions) or
by digit-by-right *Large-size speaker produces clear voice
for easy understanding *Fully floating decimal point

*Operates on 4 "AA" batteries and AC outlet (Adaptor-optional)

Dimensions: 2-9/16"(W) × 9/32"(H) × 4-21/32"(D)

Item No. SHEL835

Shpg Wt: 4 lbs Item No. SHEL640

8350000W

Hand-held 8-digit basic calculator with voice-synthesized announcements

*Compact and lightweight voice-synthesized calculator tells the computation being performed *At the depression of a key, the voice tells the numerical figures, point and the 4 mathematical functions. Other functions are indicated by various beep sounds *In long figure answers, there is the optional selection of voice announcement for "hundreds", "thousands", and "millions".

*Other Features: *Basic 4-function calculator with easy-to-read 8-digit liquid crystal display *Operates on Mercury batteries and AC outlet (Adaptor-optional)

Dimensions: 3-1/32 (W) × 7/16 (H) × 5-21/32 (D) CT-660E TALKING DIGITAL CLOCK with Alarm

Item No. SHCT660E

Full-Featured Talking Digital Clock

Compact digital clock adds voice announcement and melody to its alarm and follow-up times 5 and 10 minutes later

melody to its alarm and follow-up times 5 and 10 minutes later
* Digital clock with voice announcement * Manual time announcement — hour and minutes * Automatic time announcement every 30 minutes * Alarm with voice and melody. Sono every 30 minutes * Alarm with voice and melody. Sono every 30 minutes * Alarm with voice and melody. Sono every 30 minutes * Alarm with voice and were sono every 30 minutes * Alarm voice * Alarm vo each day Dimensions: 4-1/2"(W) × 7/8"(H) × 2-3/8"(D)

Your Cost:



Shpg Wt: 5 lbs

CT-665E "Thin-Man" Talking Digital Clock with Alarm

Your Cost:

Item No. SHCT665E

Voice-synthesized clock announces time in addition to

Voice-synthesized clock announces time in designating of displaying it is elegantly designed precision timepiece also announces the time with electronic voice synthesis * Manual time announcement, at any time, at the press of a key—hour, minutes * Automatic time announcement on the hour * Alarm with voice and melody with 10- and 5- minute intervals before the clock's alarm goes off * Non-stop readout of hour/minutes/seconds. AM and PM on an easy-to-read liquid crystal display * Countdown timer (wind alarm) to remember meetings, appointments and other time salared awards. time-related events Dimensions: 3-27/32 (W) × 7/16 (H) × 2-1/16 (D)

SHARP

Shpg Wt: 5 lbs

EL-7100 DELUXE Print/Display Deluxe Memowriter™ with Print/Display Calculation and 120-Character Input Memory Deluxe Memowriter

Item No. SHEL7100

Item No. SHEL7100

Portable 20-digit dot matrix LCD calculator with alphanumeric keyboard, 40 word memories and printer for accurate processing of numerical and alphanbelical data.

*Handy data processor with hypewriter keyboard input and capable of holding up to 20 characters of alphanumeric data *20-digit column on both display and printer tape, for easier match-up *120-character input memory adds extra versatility to word processing applications *Repeat print-out of up to 120 characters from the input memory. Other Features: Calculations can be interrupted for insertion of comments via the input memory *Scroll up/down and cursor keys allow easy confirmation and correction of input data *3-way operation (AC/DC rechargeable adaptor supplied) *Comes with soft case and rolls of paper.

\$159.95 Shpg Wt: 6 lbs



Item No. SHEL6200

Shpg Wt: 6 lbs

SHARP

EL-7001 MEMOWRITER

Hand-held 10-digit calculator with alphanumeric keyboard and extra large memory can process and print out words as well as numbers.

*Portable data processor with typewriter-like keyboard and basic 4-function calculator *40word memories, each capable of storing 15 alphabetic, or 7 alphabetic and 10 numeric characters for subsequent analysis and printout on a paper tape roll *48-character memory buffer permits editing of the data on the display prior to printout. *Liquid crystal display consists of a 10-character dot-matrix rolling display which rolls as it writes

Other Features: *Easy-to-read 10-digit dot-matrix liquid crystal display

crystal display Dimensions: 7-13/32 (W) × 1-5/16 (H) × 3-3/4 (D)

d SHARP7001 BURD 0000 0000

Item No. SHEL7001

Item No. SHEL670

Item No. SHEL1114

Shpg Wt: 6 lbs

Shpg Wt: 6 lbs

EL-6200 PLANNING COMPUTER

\$74.95

Alphanumeric planning computer with scheduling, memo and clock functions as well as 10-digit calculator.

* Pocket-sized with hypewriter-like keyboard arrangement.

* Pocket-sized with hypewriter-like keyboard arrangement.

* Pocket-sized with hypewriter-like keyboard arrangement.

* Olling splays in lower section and 9-digit in upperative. Olling splays date (year/month/day), time (hours/minutes) plus memorandum messages, appointments * Symbols provide identification of phone calls, meetings, social engagements and trips * Enter up to 27 characters and 9 numerals to store memos into memory * Programmable for a full year Daily or monthly schedule recalled at the touch of a key * Interaction with user to provide important schedule or program information * 37 memories for scheduling with alarm * Alarm clock * Memory Safe Guard**

* Other Features: * Passic * - Iunction calculator*

* Dimensions: 6-5/16 (W) * 13/16 (H) * 3-3/8 (D)

PLANESS PROPERTY. 3-24 ° FRI D COOCO

Item No. SHEL1121

EL-670 Musical Clock/Calculator 192-Note Programmable Musical/Time

Your Cost:

\$54.95

8-digit musical clock/calculator with 2-1/2 octave piano-like keyboard

keyboard

Four mode settings permit this precision instrument to function as: *Programmable electronic piano (30 notes, in cluding sharps and flats) with playback feature (up to 19 notes) *Basic 4-function calculator with easy-to-read 8-digit liquid crystal display *Accurate timepiece with readout of hour/minutes/seconds, AM and PM +Hourly chime and both built-in and customized (64 notes) melody

alarms
Other Features: •Independently accessible 3-key memory
•One-touch percent key for fast add-on/discount calculations
Dimensions: 5-5/16" (W) × 5/16" (H) × 2-15/32" (D)



10 Digit Semi Desk-Top Display

Your Cost: \$39.95

Trim, new size in a hand-held, desk-top model that can be

Trim, new size in a hand-held, desk-top model that can be carried anywhere

• 10-digit calculator with easy-to-read large fluorescent display * Independently accessible 4-key memory • Fixed floating decimal point mode of operation • Add-mode (A) facilitate entering of dollar-and-cents figures • One-touch sign change and square root keys • Percent key for fast add-on/discount calculations • Mark-up key to simplify computing of mark-up and mark-down on the sale of merchandise • Constant, power, reciprocal and chain calculations • Automatic round-off • Operates on 4 ordinary "AA" dry-cell batteries (supplied) • Optional AC adaptor Dimensions: 5-7/16' (W) × 1-25/32' (H) × 7-1/8' (D)

1234567890 Shpg Wt. 6 lbs

EL-1114 Semi-Desk-Top Display

Your Cost: \$39.95

10-digit trim semi desk-top calculator with folding support for optional operating angle

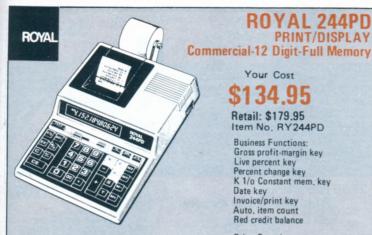
*Compact 10-digit calculator with large FEM-type liquid crystal display *Independently accessible 4-key memory

*Percent key for fast add-on/discount calculations and display shift key for entry correction

Other Features: *Constant, power, chain and reciprocal calculations *Fixed/floating decimal point modes of operation *One-touch sign change, square root keys *Round-off/down selector *Add mode (A) to facilitate entering of dollar and cents figures *Automatic Power-Off ** for extended battery life *Operates on 2 ordinary *AA** batteries Dimensions: 5-1/32 (W) × 13/16 (H) × 7-7/32 (D)



14



Shpg Wt: 14 lbs

12-digit Digitron display & 12-digit print-out tape Extra large green display; Overflow & mem, ind. appear on both paper & display Comma separation on printout & Digitron display

Fully addressable 4-key memory

Wide, low profile, full function commercial keyboard w/color coded Ig mech. keys & Ig. sloped plus (+) and bar.

Your Cost

Item No RY244PD

ROYAL 244PD

PRINT/DISPLAY

Business Functions: Gross profit-margin key Live percent key Percent change key
K 1/o Constant mem. key Date key Invoice/print key Auto. item count Red credit balance

Other Functions: Change sign key Exchange key Two independent registers
Buffered positive touch keyboard Auto. 5/4 rounding Prints 3.2 lines per second Print-head commercial steel constr. Plain-paper 12½" x 9" x 3"



Other Functions: Change sign key Exchange key Two independent registers Buffered positive touch keyboard Auto. 5/4 rounding Prints 3.2 lines per second Print-head commercial steel constr. Plain-paper 12½" x 9" x 3"

PRINT/DISPLAY

Memory

MACHINE

PRINT/DISPLA

Item No. RY340PD

Shpg Wt:14 lbs

Your Cost

\$77.95

12-digit Digitron display & 12-digit print-out tape Extra large green display; Overflow & mem. ind. appear on both paper & display Comma separation on printout & Digitron display Fully addressable 4-key memory Wide, low profile, full function commercial keyboard w/color coded lg mech, keys & lg. sloped plus (+) and bar.



Extra large (8MM high) green 12-digit digitron display & 12-digit print out tape Punctuation: Comma separation on printout tape & display
Decimal system: decimal points positions

0,2,4,6,F, and add mode Fully addressable 4-key memory Commercial keyboard design Special features

Gross profit margin key Live percent key Percent change key Non-add and date key Automatic item count Change sign key Non-print switch Two independent registers

Buffered positive-touch keyboard Automatic 5/4 rounding Automatic constant (X, ÷) Ink roll printer

Uses standard bond calculator paper, 2¼" wide

Retail:\$139.95 Shpg wt:11 lbs

Item No

RYD330

Your Cost

Item No. RY216PD

ROYAL 114PD ROYAL 10 Digit

Business Functions:

Live percent key

Date key Invoice/print key

Auto. item count

Red credit balance

Percent change key

Gross profit-margin key

K 1/o Constant mem, key

Deluxe 10-digit Digitron display & 10-digit printout tape Punctuation: Comma separation on display & paper tape

Decimal system: decimal points positions 0,2,3,F, and add mode Functional color-coded keyboard includes

extra-large plus and minus keys Fully addressable 4-key memory Two independent registers:

Adding machine register Calculator register Gross profit margin key Live percent key Non-add & date key Automatic item count Repeat calculations (auto entry) Buffered positive touch keyboard Automatic constant (X, ÷)

Ink roll printer Uses standard bond calculator paper 2¼" wide

ROYAL

Item No. RY116PD Shpg wt:12 lbs

Retail: \$99.95 Item No. RY114PD **ADDING**

Model 116PD Identical to 114PD. except 12 digits

> DURABLE PRINTER

Shpg wt:12 lbs

Your Cost Retail:\$109.95

Your Cost:

MACHINE

KEYBOARD

DESK DISPLAY

for FAST operations! 10 digit

Memory Your Cost: \$37.95

Retail:\$49.95

10 digit digitron display only Comma separation display
Preselection switch for full floating
or two decimal places
Memory, Occident

Memory: One independent addressable memory

—Plus & minus entries

- Memory recall w/o clearing
 - Memory grand total
 - Memory occupied indication
Constant switch for mult. & divn.

Percent function Item count Auto. add-on/discounts Δ % calculations GPM Calculations Exchange key

AC/DC Adapter included Dimensions: 6½" x 5 ¾" x 2" Shpg wt:8 lbs

ROYAL D120 Portable DESK DISPLAY "be Convertible!

10-digit desktop display calculator AC or optional DC operation

Your Cost:

Shpg Wt:8 lbs

ADDING

MACHINE KEYBOARD



Full 4-key memory

Constant Percent Key Item Counter Delta Percent

Gross Margin Fixed/floating decimal selection

AC adapter extra

ROYAL 316PD PRINT/DISPLAY Memory

FEATURING-Easy-to-read 12-digit flourescent display Durable printer - uses plain paper

Independent Memory Percent Key Gross profit margin key Non-add/date key **Automatic Constant** Item Counter ... and more!

12-DIGIT

Retail:\$119.95 Item No. RY316PD Shpg wt:12 lbs

Full-featured professional in a compact size! Electronic printing/display calculator is simple to operate, featuring large color-coded function keys with basic adding machine design for ease of operation.

P21-D 10-Digit Mini-Desktop Print/Display with Memory

Your Cost: \$68.95

- 10-digit plus symbols are printed on standard tape
 10-digit, fluorescent display, 4-key memory
 Automatic constant in multiplication and division
 Decimal selection 0-1-2-3-F-add-mode
 Optional round-off and down
 Item counter, printed on the left, indicates the number of
- addition and subtraction performed

 (% ±) key for percentage calculations

 Two-key rollover for speed in accurate indexing
- · Power source: 4 dry batteries (size C) or AC adaptor

Item No. CNP21D Shpg Wt: 8 lbs

P34-D 12-Digit Mini-Desktop Print/Display with Memory

Your Cost: \$79.95

- 12-digit plus symbols printed on stnd 2-1/4" tape
 12-digit fluorescent display, 4-key memory
 Automatic constant in multiplication and division
 Decimal selection 0-1-2-3-F-add-mode

- Decimal selection 0-1-2-3+-add-mode
 Item counter function

 (% ±) key for percentage calculations

 Convenient two-way power system

 Power source: 4 dry batteries (size C) or AC adaptor

Item No. CNP34D

Shpg wt:8 lbs



Canon

P26-D 10-Digit, Mini-Desktop Print/Display with Memory

• 10-digit plus symbols printed on standard 2-1/4" plain paper with punctuation space at every three

- digits

 10-digit fluorescent display, 4-key memory
 Canon printing mechanism
 Decimal selection: 0-1-2-3-F-add-mode

- (MU) key for markup and markdown calculations
 (Δ%) key for percentage increase and decrease
- calculation
 Line of dashes after addition and subtraction result
- Power source: AC only
 Size: 7-3/32" x 9-27/32" x 2-17/32"

Item No. CNP26D



Shpg Wt: 10 lbs

P36-D 12-Digit, Mini-Desktop Print/Display with Memory

Your Cost: \$89.95

- · 12-digit plus symbols
- printed on standard 2-1/4" tape
 12-digit fluorescent display, 4-key memory
- Canon printing mechanism
 Decimal selection: 0-1-2-3-F-add-mode
 (△%) key for percentage increase and decrease calculation
- calculation
 (MU/MD) key for mark-up and mark down calculations
 Punctuation: Spacing after every three digits
 Power source: AC only
 Size: 7-3/32" x 9-27/32" x 2-17/32"

Item No. CNP36D



P101 10-Digit Desktop Printer with Memory

- \$99.95

- 10-digit with accumulation memory
 Canon printing mechanism
 Constant in multiplication & division
 Decimal selection 0-1-2-3-add-mode
 Automatic setting for dollars & cents
 Line of dashes after addition & subtraction result
 (∦ ♦) non-add/subtotal key, prints on the left
 (% ±) key for add-on, discount & various percent
- Power source: AC only Size: 8-9/16" x 10-1/2" x 2-5/8"

Item No. CNP101

Shpg Wt: 10 lbs

P101-D 10-Digit Desktop Print/Display with Memory

- 10-digit with accumulation memory
 Easy-to-read fluorescent
 display with 3-digit punctuation

- Canon printing mechanism
 Constant in multiplication & division
 Decimal selection 0-1-2-3-add-mode
 Automatic setting for dollars & cents
 Line of dashes after addition & subtraction result
- (♣♦) non-add/subtotal key, prints on the left (%±) key for add-on, discount & various percent
- Power source: AC only Size: 8-9/16" x 10-1/2" x 2-5/8"
- Item No. CNP101D

Shpg Wt: 12 lbs

Your Cost \$117.95



FP-10 10-Digit Hand-Held Print/ Display with Memory & Scientific and Statistical Functions

Scientific and statistical printing calculator

10-digit, one memory capacity
 8-digit mantissa and 2-digit exponent in scientific notation

Algebraic logic operation system
 Alpha-numeric print out
 Using standard 2-1/4" adding machine tape
 Versatile scientific functions and statistical functions

Versatile scientific functions and statistical function
 It comes with a charger
 Power source: DC with built-in rechargeable Ni Cad batteries
 Size: 4" x 7-3/16" x 1-11/32"

Item No. CNFP10

Shpg Wt:



\$53.95

\$59.95

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messages of up to 42 characters

Bar-graph printout feature

Power source: AC with Canon AC Adapter AD-4
DC with 4 AA batteries Shpg Wt: 7 lbs

Shpg Wt: 7 lbs

P6-D PalmPrinter 10-Digit Hand-Held Print/Display with Memory

P5-D PalmPrinter

10-Digit Hand-Held

· 10-digit plus symbols are printed on

• Size: 3-7/16" x 8-25/32" x 1-5/8"

10 digits and full live memory

Item No. CNTP10

Item No. CNP5D

TP-10 PocketWriter

Print/Display with Memory

10-digit plus symbols are printed on 1-1/2" plain roll paper
 10-digit fluorescent display, 3-key memory
 Automatic constant in multiplication and division
 (% ±) key for percentage calculations
 Decimal selection: F (floating), + (add-mode)
 Power and reciprocal calculations
 It comes with a charger and 3 rolls of paper
 Power source: DC with built-in rechargeable NiCad batteries

Print/Display with Memory

Your Cost: \$52.95

Handheld printing and display calculator with 1½" wide thermal printing paper

Alphanumeric printing capability allows use as a contable tropusities.

portable typewriter
Three special memories store numbers and/or

Shpg wt:7 lbs

• 10-digit plus symbols are printed on 1-1/2" plain roll

- paper 10-digit fluorescent display, 4-key memory Decimal selection: 0-2-3-F-add-mode Easy-to-operate algebraic calculation method Square root key (% ±) key for percentage calculations It comes with a charger and 3 rolls of paper Power source: DC with built-in rechargeable NiCad hatteries
- 2-29/32" x 6-3/8" x 1-1/4"

Item No. CNP6D

P10-D 10-Digit Hand-Held Print/Display with Memory

Your Cost: \$79.95

- 10-digit plus symbols are printed on standard 2-1/4" tape
- Decimal selection: 0-2-3-F-add-mode
 10-digit, fluorescent display, 4-key memory
- Automatic constant in multiplication & division
 Optional rounding-off & down
 Item count, printed on the left, indicates the number of
- addition & subtraction performed $(\% \pm)$ key for add-on, discount & various percent calculations
- Two key rollover for speed in accurate indexing
 Power source: DC with built-in rechargeable NiCad batteries
 Size: 4-3/8" x 8-9/16" x 1-5/8" It comes with a charger
- Item No. CNP10D

P12-D 12-Digit Hand-Held Print/Display with Memory Your Cost: \$83.95

- 10-digit plus symbols are printed on standard 2-1/4" adding machine tape
 10-digit liquid crystal display

- 10-digit riquid crystal display
 4-key memory
 Decimal selection: 0-1-2-3-F-add-mode
 (% ±) key for percentage calculations
 Automatic constant in multiplication and division
 Convenient 2-way power sources
 It comes with an AC adaptor
 Power source: DC with 4AA size batteries or AC with AC adaptor
 • Size: 4-1/2" x 8-3/16" x 1-25/32"
- Item No. CNP12D

Shpg Wt: 12 lbs



\$96.95 Your Cost

Canon



7 lbs

TP-8 PocketPrinter Item No. CNTP8 Print/Display with Memory

Your Cost \$31.95

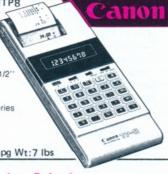
- •8 digits and single live memory
 •Handheld printing and display calculator with 1-1/2
- wide thermal printing paper

 Percentage and square root functions

 Print ON-OFF switch
- •It comes with 3 rolls of paper and 4 penlight batteries ·Power source:

De with 4 penlight batteries (size AA)
 Ac with Canon AC Adapter AD-4 (optional)
 Size: 2-13/16"x6-7/8"x29/32"

Shpg Wt:7 lbs



P3-DII Print/Display with Memory Item No. CNP3D2

Your Cost \$42.95

10 digits, and single live memory
 Handheld printing and display calculator with 1-1/2 wide plain paper

Percentage function and decimal selection switch (F, +)
 It comes with 3 rolls of paper and 4 penlight batteries.

 Print ON-OFF switch ·Power source:

 DC with 4 penlight batteries (size AA)
 AC with Canon AC Adapter AD-4 (optional) •Size: 3-7/16"x8-9/16"x1-5/8"

Shpg Wt:7 lbs



Item No. CNL813



L-813 Display Calculator

Your Cost \$32.95

- •8 digits with accumulative memory function •Well-spaced keyboard and large, easy-to-read blue display
- Power source:
- 4 penlight batteries (size AA)
 AC with the Canon AC Adapter AD-1 (optional)
- Rechargeable NiCad Battery Pack-5 (optional)
 Size: 5-3/16"x6-1/8"x1-3/4"

Shpg Wt:6 lbs



F-73P Hand-Held Scientific 65 Scientific & Statistical Shpg Wt:3 lbs **Functions** Your Cost

\$39.95

Item No. CNF73P

- 10 digits with 8 digit mantissa-2 digit exponent
- One live memory, six data storage memories
 65 scientific and statistical functions
 45 step programmability

Seven levels of parenthesis
Automatic power off feature
Power source: 2 silver oxide batteries
Size: 2-3/4" x 5-3/8" x 5/16"

Item No. CNFINANC

FINANCIAL Held-Held Calculator

Your Cost \$29.95

Shpg Wt:3 lbs

•10 digits and single live memory

- 4 financial functions: compound interest, loan, sinking fund, repayment calculation
- One or two variable-statistical calculation
- 3,000 hours of continuous use
 Power source: Two silver oxide batteries
- (G-13 or S-76) •Size: 2-3/4''x5-13/32''x5/16'

F-72 Hand-Held Scientific 47 Scientific & Statistical **Functions**

Your Cost \$54.95

- 10 digits, and single live memory47 scientific and statistical functions
- with three-level parentheses
 •Algebraic operation system
- Easy-to-operate key layout
 1,400 hours of continuous use
- Power source: Lithium battery LF1/2V (CR2032)
- •Size: 4-1/2"x2-3/4"x1/2

Shpg Wt:3 lbs



DEMOD

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Your Cost **\$29.95**

LC-8T 8-Digit Calculator with Alarm, Stopwatch & Memory

Item No. CNLC8T

- 8 digits and single live memory
 Time calculation.
- Time calculation.
 Time piece and calendar display contains month, day, date, hour, minute, and second
 Alarm, stopwatch, laptime, and time signal functions
 Battery life approx. 1 year
 Power source: Lithium battery CR2025
 Size: 2-5/8" x4-1/2" x9/32"

Shpg Wt:3 lbs



Shpg Wt:3 lbs

 digits and single live memory
 Three non-volatile memory functions for storing bank account balances

Automatic power-saving function



Shpg Wt:3 lbs

with Attractive Card Case

CHECKBOOK

Calculator

Your Cost

\$24.95

Item No. CNCHKBK

Shpg Wt:3 lbs



Item No. CNLC61T

LC-61T Calculator with Quartz Clock Alarm, Stopwatch & Laptime

Your Cost \$24.95

8 digits and single live memory

8 digits and single live memory
 Accurate crystal quartz clock displays day, date, hour minute and flashing second all year around
 Alarm, stopwatch, laptime, and time signal functions
 Choice of finishes (black or silver)

Battery life approx. 1 year

Power source: Lithium battery LF1/2V (CR2032)

Size: 2-3/16"x3-11/16"x1/8"

LS-4 Hand-Held SOLAR Calculator Operates from any light source

Your Cost \$18.95

8 digits and single live memory
Percentage and square root functions

 Operates on built-in amorphous silicon solar cells which use power from any light source
•Size: 2-5/8''x4-1/2''x1/4''

Item No. CNLS4SOL



Item No. CNLS6SOL

LS-6 Hand-Held Credit-Card Size Transport SOLAR Calculator Your Cost

Shpg Wt:3 lbs

\$19.95

Operates from any light source

8 digits and single live memory
Slim, credit card size

 Percentage and square root functions Operates on built-in silicon solar cells which use power from any light source
•Size: 2-7/32"x3-29/32"x1/8"



ACCESSORIES

AC Adaptor AD-1 115 Volt AC Adaptor AD-1 220 Volt AC Adaptor AD-4 115 Volt AC Adaptor AD-4 115 Volt Rechargeable NiCad Battery Pack-5 Ink Roller CP-2 (Box of 5) Ink Roller CP-9 (Box of 5) Ink Roller CP-9 (Box of 5) 12.50 15.00 12.50 15.00 Cassette Ink Ribbon for FP-10 (Box of 5) Charger-3 115 Volt 17.50 7.00 Charger-3 220 Volt 8.00 Lithium Battery 1/2W (Set of 10)

Lithium Battery ½V (Set of 10) Lithium Battery ½V (Set of 10) Lithium Battery 1/3V (Set of 10) Carrying Case for PalmPrinter \$5.00 6.00 6.00 7.50 Roll Paper for P6-D/P5-D/P3-D II (5) Thermal Roll Paper TP38 (Set of 5)

30.00

30.00

5.00

1.00





FAST! 3 Lines per Second! Sub-total Sigma switch Repeat entries Change sign Uses plain paper (2¼" tape) Over-sized control keys 4-key independent memory

Ink roller printing (black) Print Select switch (Model 12 PD) **Punctuation** Triplicate spacing

Independent add/calculate registers Item count

Automatic percent with add-on & discount Automatic constant

Fully accessible memory and more. . .

Special Features:

Shpg Wt:13 lbs

Add mode directly enters dollars & cents decimals for greater speed, efficiency & less possibility of operator error.

Percent key automatically places decimal in percent calculations.

Easy-to-read fluorescent display with 3-digit automatic punctuation.



ADDING MACHINE: Ten column entry
Ten key adding machine keyboard
Adding machine keys separate from calc keys
Independent Calc & add registers

Add mode Repeat entries

Two-color ribbon Non add/date key

Your Cost

Made in U.S.A.

CALCULATOR:

Multiplication & division Automatic constant Percent key

SPECIAL FEATURES:

Optional cartridge ribbon Large, clear print Uniform keyboards Standard width tape

SPECIFICATIONS: Power consumption: 100 watts max.
Dimensions L=13,9'' W=7.9'' H= 3,1''
Paper roll: 2 1/4'' standard paper

VICTOR 100 PRINTING CALCULATOR

DISPLAY CALCULATOR

Item No. VI204

VICTOR 204

Shpg Wt:9 lbs

FEATURES:

FEATURES: Functions: Addition, subtraction, multiplication, division, percent, item count, exchange, one memory, Oversized keys, rollover buffer; Capacity: 12 digits plus sign and punctuation. Overflow, Six access keys.

Fluorescent display: blue on black.
Decimal System: features Floating Input, Floating
Intermediate Results, Decimal Format Selector,
Decimal Rounding Selector.
Memory System: features one memory, six access keys.
Constant System: features Repeat Addition/Subt.,
Constant Mult/Divn.

Clearing System: features Clear Entry/Clear & Clear All.

DIMENSIONS: 81/2" X 81/2" X 23/4"

Your Cost

79.95

Retail:\$99.95

VICTOR 515 ECR



VICTOR 511 ECR Item No. VI511ECR

Item No. VICASE

Your Cost

Retail: \$139.95 Item No. VI100

\$429.00

Retail: \$595.00

FRONT AND REAR DISPLAY

 SELECTIVE ITEMIZATION LOCKED JOURNAL

Standard Cash Drawer

ELECTRONIC Shpg Wt: 40 lbs CASH REGISTER

ACCESSORIES FOR VICTOR PRINTERS

4.95 each Item No. VIRIB 1 cartridge ribbon 6 cartridge ribbons 12 cartridge ribbons 3.95 each 3.25 each 144 cartridge ribbons 2.95 each

Carrying case for Victors

Shpg Wt:1 lb

49.95 each

1 MANAMANANA Many more features

Retail:\$695.00

view window displayvery visible. Four department sales TOTALS Daily sales totals Drawer total Void total Activity count on dept. & void totals Mult, a non-add, grand total, change computation. Rec'd on account key Paid out key Programmable check or charge key 56 break point tax table Digit limit entry key Bottle refund

Standard front & rear

Your Cost

Shpg Wt:45 lbs Item No. V1515

Electronic Cash Register



Results and entries can be calculated in print, on large green digitron or in both modes simultaneously by adjusting a 2 mode switch. Digitron display keeps running sub-total and enables you to see visual entry prior to key depression. Adds, subtracts, multiplies and divides. Does chain and mixed calculations. Selectable decimal point with 2, 4, and 6 setting as well as "add mode" and "full float" position. Fully addressable memory selectively stores and accumulates in separate register. Memory accumulation setting allows all calculated results to be automatically accumulated in the memory. Automatic constants in all four functions. Full 12-digit capacity, entries and answers up to 9,999,999.999. 199. Item count key indicates the total number of entries in addition and subtraction. Two color ribbon for negative sub-totals and credit balances printed in red.
Automatic percentage key with add on and discount capability.

Mark up key automatically gives selling price calcu-lated on desired mark up, and stated cost. Exchange key used for reciprocal calculations. Sign change key for changing the value of any given entry or result. Backspace key allows clearing of the last digit of an entry for correction purposes, without clearing the caller earts.

entry for correction purposes, without clearing the entire entry.
Clear and clear entry key for easy correction.
Non add key for reference numbers.
§48 switch allows either rounded-off or automatic truncated results.
High speed buffered keyboard for convenient touch

operation. Power on, memory in use, overflow, and error indicators Automatic paper advance and alignment with standard

24" tape.
Seiko impact printing head.
11%" x 9%" x 3%".
U.L. approved AC operation.

Shpg wt:14 lbs

UNITREX CLASSIC 360

Printer/Display with Memory **Uses Plain Paper**

Retail:\$199.95

Add. subtracts. multiplies & divides Item counter % key Mark-up with Delta Sigma switch Fixed & floating decimal 4 key accumulative memory

Seiko print head for fast operation

Uses standard 2¼" plain paper **HEAVY DUTY FOR HEAVY WORK!**

Item No. UXC360

FULL DESK-TOP MODEL Shpg wt:14 lbs

UNITREX

"PROFESSIONAL II" 10 Digit Printer/Display

Your Cost

Retail:\$129.95 Item No. UXPROII

PROFESSIONAL II

Featuring 10 digit capacity, Large, easy-to-read display with punctuation

4-Key memory

Selectable, fixed and floating decimal

Add mode

Automatic mark-up and mark-down key

Item counter Seiko impact head

Uses standard 214" paper

"PROFESSIONAL III" 12 Digit Printer/Display

Features all of the functions and quality of the Professional II with the added convenience of 12 digit capacity.

> Your Cost 89.95

Retail:\$149.95

Item No. UXPROIII

Shpg wt:12 lbs

Full Size Calculator Uses Plain Paper

UNITREX CLASSIC 12

De Luxe Desk-top **Digital Calculator**

Heavy Duty

Retail:\$119.95

Item No. UXC12

Adds, subtracts, multiplies & divides Chain & mixed calc. 12-digitron display Fully addressable memory Memory accumulation switch Selectable decimal point Constant switch Square root key Shpg wt:8 lbs Exchange key

Exchange key
Backspace key
Item count key, auto. % key
Clear & clear entry key
Non-add key
Mark-up key
AC/DC operation w/rechargeable

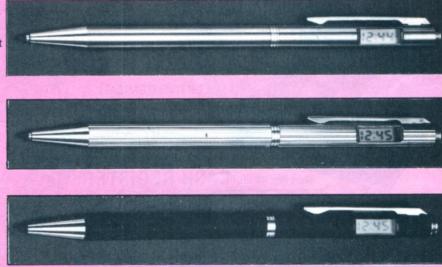
battery Internal timer auto, turns off display

THESE ARE VERY HIGH QUALITY PEN WATCHES WITH MANY FEATURES

ALL ARE LCD DELUXE THINLINE

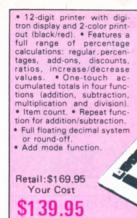
Shpg wt:12 lbs

| Item No. | Description | Retail | Your Cost |
|----------|--|-----------------|-----------|
| AI501G | Five function, silver tone, great | 29.95 | 6.95 |
| PW401 | seller, gold trim Five function, silver tone, great | 29.95 | 5.95 |
| PW402 | seller Five function, matte black with | 39.95 | 12.95 |
| PW403 | gold trim, beautiful Five function, gold tone with | 44.95 | 14.95 |
| PW404 | diamond cut finish Five function, silver tone with | 39.95 | 12.95 |
| PW500 | diamond cut finish Five function, burgundy finish | 39.95 | 12.95 |
| PW201 | with gold trim Five function, silver tone/gold | 59.95 | 19.95 |
| | trim with alarm | | |
| PW301 | Five function, silver tone/gold trim with melody alarm | 69.95 | 24.95 |
| PWC100 | Beautiful golf ball with LCD watch (Golf Ball Clock, not pen | 29.95 watch) | 9.95 |



Shpg Wt: 1 lb each

ORDER SEVERAL & HAVE THEM ON HAND-THE PERFECT GIFT FOR ANY OCCASION!



Item No. CSDL320

CASIO Electronic

Handy & compact!

Item No. CS114ER

\$219.95

Retail:\$249.95

MINI ECR!

Shpg Wt: 25 lbs

Features

Cash Register 114ER

PRINT/DISPLAY/MEMORY 13 lbs

CASIO DL320 CASIO DL310 10-Digit 12-Digit | PRINT/DISPLAY MEMORY Item No. CSDL310 \$124.95 Your Cost Shpg Wt:

Retail:\$149.95 Uses plain paper

13 lbs

Shpg Wt:

 2-color printer (black for positives, red for negatives) with digitron display.
 Constants in multiplication and division, subtotal, total and grand total, item count, add-mode, repeat, memory and

percentage calculations memory. • Fundamental decimal with 4-kev floating or fixed decimal with round-off or cut-off. • Onetouch accumulated totals four functions

Your Cost: \$114.95

PRINT/DISPLAY

CASIO DL300 10-Digit

Retail:\$139.95 Shpq Wt: 13 lbs

Item No. CSDL300 • 10-digit calculator with digitron display. • Subtotal, total and grand total accumu-lation. • Will calculate regular percentages, add-ons, discounts, ratios, and increase/ decrease values. • Full float-ing or fixed decimal (0, 2, 3, of fixed decimal (0, 2, 3, 4 or 6) with round-off or cutoff. • Overflow check. • 2color printout (black/red).
• Uses standard 2½" paper

CASIO

CASIO Electronic Cash Register 120ER

CASIO

Item No. CS120ER Your Cost:

\$269.95 Retail:\$299.50

· 8 totals including 2 departments, cash sales, * 8 totals including 2 departments, cash sales, charge sales, reductions, sales tax, gross sales, and net sales. * 8-digit digitron displays. * 4 counters, automatic date change and time. * Two department and reduction are keyboard programmable in 8 different combinations to establish tax status. * Tax table programming. * Telescopic rear display enables customer to view from left, right or rear side. * Paper spacing for receipt or journal selection. * Locking cash drawer with 4 coin and 4 currency compartments. * 12½ " x 16¾ " x 11¼ ".

Shpg Wt: 25 lbs



Item No. CS2102ER

Your Cost: \$379.95 Retail:\$499.50

Includes large drawer

®SANYO ECR270

Your Cost:

\$369.95

5 coin compart ment

• Full 5 bill/

Electronic Cash Register

• 12 totals including 2 departments, cash sales, 2 departments, cash sales, charge sales, reductions, voids, taxable amount, tax refunds, net sales, gross and non-resettable grand total. * 2 counters, pre-settable date, time, tax rate. * Built-in memory protection. * One receipt and one journal. * 8-digit digitron frontal/side-view displays. * Time and date print on receipts/journals. * Repeat and multiplication functions. * Telescopic customer display. * Locking cash drawer with 5 coin and 5 currency compartments.

Shpg Wt: 40 lbs



with Front Display Retail:\$299.50

Your Cost:

\$249.95 Item No. SAECR150

 Features single-department with standard functions.
 11 totals, including: net sales, discount, tax, gross sales, cash sales, charge sales, received on account, paid-out, money in drawer, void and non-resettable total.

• 4-digit item counters for sales quantity, customer and reset counter. • Discount and tax calculation by manual

and automatic modes. • Repeat registration with

• Digit entry limitation Automatic change calculation.
 Split tendering for cash and charge with the balance displayed.

• No- sale feature.

· Single department with standard functions

11 totals

· 4 bill/4 coin drawer



with Front & Rear Display

Your Cost: \$289.95

Retail:\$349.95

• 11 totals, inc: net sales, discount, tax, gross sales, cash sales, charge sales, received on account, paid-

out, money in drawer, void and non-resettable total. • 4-digit item counter for

*4-ogit item counter for sales quantity, customer and reset counter. * Discount and tax calculation by manual and automatic modes. * Repeat registration with counter. * Digit entry limitation. * Automatic change calculation. * Split tendering for cash and charge with the balance displayed. * No-sale feature. * Last and prior item voids.

Item No. SA150LMR

Full 5 bill/5 coin drawer

with removable cash till

Shpg Wt: 30 lbs

* Full 5 bill/

* To coin compartment
with removable cash till.

* 12 totals, 4 departments
include: net sales, tax, gross
sales, cash sales, charge
sales, received on account,
refund and paid-out, money
in drawer, void and nonresettable grand total.

* 2 departments upgradeable to
4 with parts & instructions
Item No. SAECR270
Shpg Wt: 30 lbs

* Shpg

counter SANYO LX321 Electronic Cash Register with 2 Departments \$429.95

• Features

* Features
 B-digit print, 6-digit
fluorescent display
with 1-digit department or
sign. 2 departments
upgradeable to 4 with parts
and instructions included
with 14 totals. * Auto tax
computation with tax table,
mixed tax-table, % tax, rounding selection and selection
of percentage presetting.
 * Manual tax override key
and tax shift key. * Other
functions include repeat
registration, multiple registration, charge and last-item/prio

Item No. SALX321

• 14 totals

· 8-digit print, 6-digit display Auto tax computation

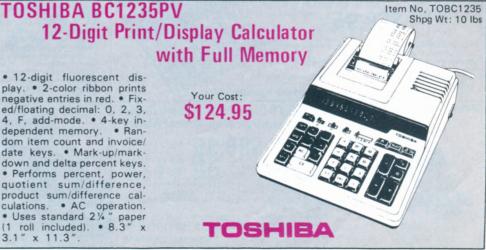
3-way locking system

Shpg Wt: Retail:\$549.00 40 lbs

registration, multiple registra-tion, charge and last-item/prior-item void. * Split tendering for cash and tion, charge and last-item/prior-item void. * Automatic change computation. * Authon, range and instrumentation. Split tending for cash and charge with balance displayed. • Automatic change computation. • Automatic reading and resetting of total. • Approximately 1000 hours of memory protection with built-in NiCad battery. • 3-way locking system for mode, journal protection and drawer.



3.1" x 11.3"



FX-8100 10-Digit LCD Scientific Your Cost: Wallet Clock/Calculator

Item No. CSFX8100

- · Four basic calculations, percentage calculations
- Rapid response to 46 scientific functions.

 True algebraic logic the formula can be entered in the same sequence as written.
- Progressive standard deviations contribute to swift handling of statistics.

- Rectangular polar coordinates.
 S Levels of parenthesis. . Constant for 6 functions.
- Clock function hour, minute, second, AM/PM, accurate to 3 seconds per day. Time tones every hour on the hour.
- Calendar function year, month, date, day. Permanently programmed calendar (1976 to 1999).
- Alarm function alarm signal at preset time.
- Countdown alarm Timer 1 or timer 2 (repeat timer). Countdown alarm signal when zero is reached. Attractive wallet included.
 Stopwatch function normal, net & lap times

Shpg Wt: 5 lbs



Your Cost:

FX-3600P 10-Digit LCD Scientific Programmable Wallet Calculator Integral calculations (Simpson's rule).
 61 Built-in functions

Integral calculations (simpson's rule). • 61 Built-in functions: sin, cos, tan, \sin^{-1} , \cos^{-1} , \tan^{-1} , \sinh , \cot , \cosh , \tanh , \sinh^{-1} , \coth^{-1} , \tanh^{-1} , \log , \ln , 10° , e° , e

Convenient programming of constantly used data — up to 38 steps and

2 programs, all retained even when power is off.
 Advanced statistical calculations — can derive correlation coefficient and

Advances statistical calculations — call over contraction coefficient and estimator of regression analysis from two sets of variable statistical data.
 Independent memory and 6 constant memories. Contents protected when power is off. Four basic functions (+, -, x, ÷) may be made to

contents of the constant registers True algebraic logic; up to 18 pairs of parentheses in 6 levels

Automatic power cut-off saves battery waste.

10-Digit mantissa plus 2-digit exponent up to 10.
"Strategies for Scientific Calculating" included. Shpg Wt: 5 lbs

Item No. CSFX3600P



123456-99

60 0 0 0 0 0

00000

FX-900 8-Digit LCD Solar Scientific Calculator

Item No. CSFX900

· Four basic calculations, percentage calculations.

• Four basic calculations, percentage calculations. • Rapid responses to 41 scientific functions: sin, cos, tan, sin $^{-1}$, cos $^{-1}$, tan $^{-1}$, log, ln, $^{-1}$ 0° e^x x^x x^y $\sqrt{}$ $\sqrt{}$ x^x 1/x x^1 able x^0 (), $R \rightarrow P$, $P \rightarrow R$ $P \rightarrow$ Shpg Wt:5 lbs

P→R 0 · m 0 · m + +/- EXP, π 2x 2x n X 0n 0n-1
DEL x FIX, SCI, RND. DEG. RAD, GRA.

• True algebraic logic — the formula can be entered in the same sequence as written.

• 15 Pairs of parenthesis up to 5 levels for reading & processing as in the math expression.

light, daylight, sunlight, lamplight.

Never need to replace a battery again.

Full floating decimal point with underflow.

"Strategies for Scientific Calculating" included.

SOLAR



FX-78 10-Digit LCD Credit Card Your Cost: Scientific Calculator \$29.95

Your Cost:

True algebraic logic.

• Parenthesis calculations up to 6 levels. • True algebraic I • Independent memory and constants for +/-|x| + |x| + |x

Independent memory and constants for *f - [N, t² | X *] X *] X.
 Automatic cut-off switch saves battery and preserves memory.
 Keyboard features RND (round), RAN# (random number), FIX and SCI keys.
 ■ key for display of kilo (10³), mega (10⁵), micro (10⁻⁵), etc.
 Fluent conversion between polar ** rectangular coordinates.
 Easy statistics through standard deviation function.
 Crisp, liquid crystal 10-digit clisplay also capable of exponents up to 10⁻⁵ through 8 + 2 digits.
 3-Mode angular measurements (DEG, RAD, GRA).

\$39.95

· "Strategies for Scientific Calculating" included.

Shpg Wt: 5 lbs Item No. CSFX78

S-2 12-Digit Digitron Display Desk Top Calculator

Your Cost:

- direct access to memory, percentage calculation, including add-on's/discounts, mark-ups/mark-downs, square roots.
- Full floating decimal point, fixed (0-6) with cut-off, round-off or round-
- up, & ADD (2) mode.

 Large 10-digit digitron tube display.

. Power source - four "AA" batteries • AC adaptor (4145) optional.

Item No. CSS2 Shpg Wt: 6 lbs



HR-1 10-Digit LCD Hand-Held Plain Paper Print/Display Calculator

Shpg Wt: 7 lbs

 Uses Standard 38 mm Plain Paper. · Four basic calculations, percentage calculations, including add-on's/

discount and markups.

• Constants for +/-/x/÷.

Automatic accumulation in four calculations.

Simple algebraic logic operation.
 Independent memory, print key, +/— key, and item counter.

• 3-Digit comma marker

Full decimal system: floating, fixed (2) with round-off- or cut-off.
 Auto power off function.

• 2-way power source: AC (AD-4150 adaptor) or DC (4 AA batteries).

Item No. CSHR1



Shpg Wt: 7 lbs

\$49.95



CP-20 10-Digit LCD Shirt Pocket Print/Display Clock/Calculator with Alarm

Shpg Wt: 8 lbs Item No. CSCP20

Four basic calculations, constants for +/-/x/+, percentage calculating add-on's/discounts, mark-ups & date calculations.
 Clock function:

Readout: 12 hour system - digital display of hour, minute, second, & AM/PM.

Readout: 12 hour system - digital display of hour, minute, second, & Printout: hour, minute, second & PM.

Calendar function: January 1, 1901 to December 31, 2099. Readout year, month, date, & day of the week. Printout - year, month, date & day of the week. Automatic full month calendar printing.

10-Digit LCD display.

Alarm function.

10-Digit LCD display.
 • Alarm function.
 • Power source: Built-in Ni-Cad rechargeable battery pack. Charger (CHA-1) included.

9999 00000

Print/Display Calculator Item No. CSHR12

Four basic functions, percentage calculati

HR-12 10-Digit Digitron Hand-Held

Four basic functions, percentage calculation.
 Four key independent memory available for complex totalling.
 Fast repetitive calculation for X/→ with use of the constant function.
 Repeat function for additions/subtraction.
 Convenient answer-printing function — if the unit is being used in the display mode, any answer, can be printed at a touch of the 3x key.
 Full decimal system — floating; fixed (0-4) with cutpoff, round-off; ADD mode.

• Uses plain paper - 2/14" paper roll.

10-Digit digitron display.
 Dual power source – 4 "AA" batteries included. Optional NI-CD power pack (NP-4M) or optional AC adaptor.

Desk-Top Calculator FR-100 10-Digit Digitron Print/Display

Your Cost: \$69.95

· Four basic functions, constant, percent, independent memory, item count, sub-total, total, print-on/off switch.

• Floating or fixed decimal: 0-4 cut-off, round-off, round-up, ADD-mode

• Uses plain paper - standard 24" paper roll

Dual power source: 4 "AA" batteries or AC adaptor (AD-4150) — both included.



JR-250 12-Digit Digitron Print/Display Your Cost: \$74.95 Desk-Top Calculator

Shpg Wt: 8 lbs

 Four basic functions, constants for x/÷, square & powers, reciprocals, sub-total & total, addition/subtraction with item counts, ADD-mode calculation, memory calculations, percentage calculations

 If the unit is being used only in the display mode, a touch of the (P key will print out the displayed figures. Repeat function: repetitive accumulation of additions & subtractions

• 3-Digit comma markers displayed for large figure read-out. • Full decimal system: selectable - floating; fixed (0-4) with cut-off or

Full decimal system: selectable - notating, rised to - with construction or round-off; ADD-mode.
 12-Digit digitron display.
 Dating & coding: printed references can be added without affecting
 Dual power source: 4 "AA" batteries

or AC adaptor (AD-4150).

Item No. CSJR250



JR-410 10-Digit Digitron Print/Display Clock/Calculator with Musical Alarm

- · Clock with hourly time signal
- Full decimal system: floating, fixed (0-4) with round-off or cut-off,
- Calculator: 2-way power source: AC (AD-4150 adaptor) or DC (four penlight batteries).

Item No, CSJR410





Four basic functions, constant, percent, square root, sign change key, item count key, independent memory.
 Full decimal system: floating, fixed (0-6) with cut-off, round-up,

Print on/off switch, uses plain paper (2-1/4").
Easy to replace ink-roll cartridge (IR-728). urce: AC only.

Shpg Wt: 8 lbs



Your Cost: \$86.95

• 10-Digit tape and display, constants for x/÷, independent memory, sub-total/total, %. P print key, bo key, item counter

Clock — 18 months on two penlight batteries (UM-3).

22





CASIO · Four basic functions, constant, percent, square root, sign change key item count key, independent memory • Full decimal system: floating, fixed (0-6) with cut-off, round-off ADD-mode • Print on/off switch, uses plain paper (2-1/4"). • Easy to replace ink-roll cartridge (IR-72B). · Power source: AC only.

Shpg Wt: 14 lbs FR-1211 12-Digit Digitron Print/Display

Item No. CSFR1211

VL-1 Hand-Held Musical Keyboard with Calculator

- One key play function
 Auto play function.
- Manual play function.
- · Auto-Rhythm (10 built-in rhythms) Program storage (100 step maximum).
- 5 Preset sounds (piano, fantasy, violin, flute, guitar) ADSR function (different sound variations in over 80 million)
- combinations). · Melody demonstration with rhythm accompaniment
- · Built-in speaker
- · Calculating function
- 2-Way power source: AC (AD-4160 adaptor) or DC (four penlight batteries).

Item No. CSVL1

A THE WAR

Shpg Wt: 6 lbs

FX-700P Hand-Held Personal Computer

Shpg Wt: 5 lbs

Item No. CSFX700P

Hand-Held Computer

Desk-Top Calculator



QUALITY DEPENDABILITY DURABILITY

\$89.95

- 20 Digit dot matrix
- Uses BASIC program language.
- 1568 Program steps maximum.
- 222 Memories maximum.
- · Basic calculator functions.
- Scientific functions.
- True algebraic logic.

Shog Wt: 7 lbs FX-702P Hand-Held Personal Computer

- Uses BASIC program language.
 Ultra-high speed processing-10 times
- faster than any standard system
- 1680 Program Steps Maximu
 226 Memories Maximum.
- Power Source 2 lithium batteries.
 Autc Power off.
- · Effective editing through three corsor shift keys.
- Easy to use 65-key keyboard with simple key comm
 Incorporates 55 different operational functions for
- every type of calculation.
- Single-touch display command lists program and variables list to insure
- easy checking of memory contents.

 Subroutine 10 levels, FOR: NEXT loop 8 levels, numerical value 10 levels, calculation elements 20 levels.

 10-digit mantina, 2-digit exponential LCD display, 20-digit dot matrix.

0000000000000 22000000000000 0000000000000

Item No. CSFX702P

FA-3 Cassette Interface for FX-700P Computer Item No. CSFA3

A cassette tape recorder may be connected as an external memory de The use of the optional FA-3 adaptor makes possible the recording of programs and data on tape. Since a remote control device is provided, a simple designation, "File Name" is enough to control the tape recorder As it is possible to call the program automatically during programming, a program may be run which is not accommodated by the FX-700P memory.

Either IFC, only

Uses standard Mini-Phone Plugs.

FA-2 Cassette Interface for FX-702P Computer

- A cassette tape recorder may be connected as an external memory de
 The use of the optional FA-2 adaptor makes possible the recording of programs and data on tape. Since a remote control device is provided, a simple designation, "File Name" is enough to control the tape recorder As it is possible to call the program automatically during programming, program may be run which is not accommodated by the FX-702F Uses standard Mini-Phone Plugs.

Item No. CSFA2



Shpa Wt: 3 lbs

FP-10 Mini-Printer for Hand-Held Computer Printing method: discharge printing method (non-impact type). Number of print positions: 20 Printing speed: 2 lines per second. Roll paper: paper width 35mm, roll diameter 26.5mm or less, metalized recording paper (type: CMP-36). Power supply: DC-4AA batteries, AC-with AC

- adaptor (AD-4150), rechargeable pack (NP-4M).
- FP-10 Capabilities with FX-702P
- Manual printing.
 Printing of memory list

- Printing of memory list & single program list.
 Simultaneous printing of all programs and me
 Printing of operation results using a program.





Item No. CSFP10 Shpg Wt: 9 lbs

Item No. Your Cost: AC-Adaptor: 2-3550(C), AD-4145(A), CHA-IU CSAC1 \$ 6.00 AC-Adaptor: AD-4150(J), AD-4160 CSAC2 \$ 7.00 AC-Adaptor: AD-4170(K) CSAC3 \$10.00 AC-Adaptor: AD-1 CSAC4 \$12.00 NI-CAD KIT (2 Bat.) NP-2M CSNP2M \$ 6.00 NI-CAD KIT (4 Bat.) NP-4M CSNP4M \$17.95 INK-Roll (IR-72, IR-2) \$ 3.25/Pc CSINK 1 INK-Roll (IR-80) CSINK2 \$ 2.95/Pc Paper (HR-20, HR-5, CP-10) TRP-16X5 CSTRP165 \$ 2.25/Bx CSCMP365 \$ 6.00/Bx (HR-10, FP-10) CMP-36X5 Paper Paper (HR-20, HR-5) TRP-26X5 CSTRP265 \$ 3.50/Bx



PROGRAMS for the Casio Hand-Held Computer

Whether you're looking for mathematics and science programs, or simply want to use your handheld computer to balance your checkbook, *Programs for the Casio Handheld Computer* has something for you. This useful book is divided into 14 sections, covering such diverse topics as Analytic Geometry, Astronomy and Time, Electronics, Financial Applications, and Games.

Programs for the Casio Handheld Computer begins with an introductory section, which explains how to use the book. Each program is documented clearly with a concise description of what the program does and how to use it. Simplified examples show you each step of what appears on the display and what you must enter. And the entire program listing, ready to type in and use, appears at the end of every chapter, as well as a list of variables. Item No. CSPROGMS Shpg Wt: 3 lbs

Shpg Wt: 6 lbs

Retail: \$159.95

Item No. VI210

DISPLAY 14 Digit Two Memories

Features: Snap Touch, Oversized keys, Rollover buffer, Fluorescent display, Underflow, Overflow.

VICTOR 210

Decimal System: Features Floating input, floating

intermediate results, decimal format selector, decimal rounding selector.

Memory System: Features Two memories, Seven access keys, Special

Function Selector. Constant System: Features Repeat Addition/Subtraction Constant Mutl/divn.

Clearing System: Features Clear Entry/Clear, Clear All. Capacity: 14 digit entry.

DIMENSIONS: 81/2" X 81/2" X 23/4"



ompute Your Model Description Retail Cost AE2S1048 48K Bytes Plus 1530.00 1089.00 AE2P2048 Family System 2495.00 **1795.00** AE2P0005 Apple II System Package 1995.00 **1649.00** Apple II Peripherals for Apple II AE2M0044 Disk Drive with Controller 645.00 519.95 AE2M0003 Disk Drive Two (Drive only) 525.00 429.95 AE2M0036 Silentype printer for Apple II 395.00 **329.95**

AE3M0006 Monitor, 12" black & white for Apple III 249.95 219.95

AE2M0029 Graphics Tablet with interface

Call for shipping weights.

AE3M0039 Monitor, 12" green for Apple III

795.00 649.95 249.00 219.95

> FUNCTIONS: Addition, subtraction, mult., division, square root, percent, item count, change sign, exchange, two memories.

commodore



The VIC-20 (Video Interface Computer) features 5K Random Access Memory (RAM) expandable to 32K and 16K Read Only Memory (ROM) capacity.

It is designed so that a first time user can begin using it immediately with plug-in cartridges.

UNIQUE BUILT-IN FEATURES:

- Full-size 64-character typewriter keyboard with upper & lower case letters & 65 graphic characters
- Built-in BASIC language
- 4 programmable function keys
- 8 border colors, 16 screen colors
- 4 sound amplifiers for music or sound effects
- Offers RS232 interface capability

Screen display shows 22 characters wide by 23 lines deep Keyboard special functions include: Automatic repeat on space bar Insert, delete & cursor control keys

| HARDWARE | | Shpg Wt | : | |
|------------|--|------------|---------|--|
| CMC2N | Datasette Cassette Recorder | 5 lbs | 59.95 | |
| CM1541 | Single Disk Drive | 15 lbs | 339.95 | |
| CM1525E | Printer | 15 lbs | 339.95 | |
| CMVC1600 | VICMODEM (Telephone Interface) | 2 lbs | 99.95 | |
| CMVC1311 | Single Joystick | 1 lb | 10.95 | |
| CMVC1312 | Two Player Game Paddles | 1 lb | 19.95 | |
| CMVC1210 | VIC 3K Memory Expander Cartridge | 1 lb | 42.95 | |
| CMVC1110 | VIC 8K Memory Expander Cartridge | 1 lb | 62.95 | |
| CMVC1111 | VIC 16K Memory Expander Cartridge | 1 lb | 109.95 | |
| CMVC1011 | RS232C Terminal Interface | 1 lb | 48.95 | |
| CMVC1112 | VIC IEEE-488 Interface Cartridge | 1 lb | 89.95 | |
| CMVC1010 | Expansion Module: 6 slot expansion un | nit 2 lbs | 134.95 | |
| ADDITION | NS SOFTWARE ON CARTRIDGE S | Shpg Wt: 1 | Ib each | |
| CMVC1211 | VIC 20 Super Expander: 3K RAM expa | | 62.95 | |
| CIVIVOIZII | hi res graphics, color, paint & sound co | mmands | | |
| CMVC1212 | Programmers Aid Cartridge | | 48.95 | |
| | | | | |

| | Adds 20 new commands to BASIC; proga programmable | ! |
|----------|--|---|
| CMVC1213 | function keys. VICMON Machine Language Monitor 48.95 | |
| | Write fast, efficient 6502 assembly language programs. Includes one line assembler/disassembler. | |

TEACH YOURSELF PROGRAMMING SERIES

5-part series of tapes & manuals provides a self-teaching course in computer programming, from introductory BASIC to 6502 Machine

| | Language Programming. | Shpg Wt: |
|---------|-------------------------------------|--------------------------------------|
| CMVL101 | Introduction to Computing | 5 lbs 22.95 |
| | For the non-computerist. Stresses | "computing", not "programming." |
| CMVL102 | Introduction to BASIC Progra | mming 5 lbs 22.95 |
| | Excellent first book for any new co | omputerist. Tutorial tapes included. |

| VIC 20 BOO | KS & MANUALS | Shpg Wt: |
|------------|----------------------------------|----------|
| CMVM100 | Personal Computing on the VIC 20 | 1 lb |

CMVM110 VIC 20 Programmers Reference Guide Includes info. on VIC BASIC, 6502 Machine Code Programming, Input/Output ports, VIC microprocessing chips & tips for all levels of programmers. Indespensible.

The friendly computer FREE LCD PEN WATCH with Purchase of VIC-20!

Shpg Wt:20 lbs Item No. CMVC20

14.95

9.95

27.95

27.95

27.95

27.95 27.95 34.95 34.95 34.95

34.95

34.95

34.95

34.95

34.95

INCLUDES RF MODULATOR, SWITCHBOX CABLES & SELF-TEACHING INSTRUCTION BOOK. 16" L x 3"H 16"L x 3"H x 8"D.

Program cartridges plug directly into the console and each program can be up to 27K. Memory expansion cartridges are available in 3K, 8K and 16K increments. Easily connects to any color or black & white TV set or monitor (optional). Available ports include an expansion port, game port, serial port, tape cassette port, user port (R\$232) and video port.

Software for the VIC20 can be controlled from the keyboard and is available on tape cartridge and disk for entertainment, education and home utilities.

Shog Wt: 1 lb each **COMPUTER PROGRAMS ON TAPE**

CMVT106A

48.95 Recreation Program Pack A Car Chase, VIC 21, Blue Meanies From Outer Space, Biorhythm/Compatibility, Spacemath, Slither/Super slither

CMVT107A

Home Calculation Program Pack A Personal Finance I & II, VIC Typewriter:word processor for home use, Expense Calendar, Loan & Mortgage Calculations, Home Inventory.

CMVT108A

CMVC1916 CMVC1917

CMVC1918

CMV C1919

CMVC1923

CMV C1924

Shpg Wt: 2 lbs Math Improvement Sixpack Six educational tapes which contain math games with learning essentials to provide hours of constructive entertainment. Grades 1-6. Use with Datasette recorder.

CMVT164 Programmable Character Set/ **Gamegraphics Editor** CMVT232 VICTerm I

VIC terminal program on tape converts any VIC to a

| terminal for use with modem. | | |
|------------------------------|------------------------------|--|
| BECREATIO | NAL GAMES ON CARTRIDGE | |
| CMVC1901 | VIC Avenger Shpg | |
| CMVC1904 | Superslot 1 lb ea | |
| CMVC1906 | VIC Super Alien | |
| CMVC1907 | Jupiter Lander | |
| CMVC1908 | Draw Poker | |
| CMVC1909 | Midnight Drive/Road Race | |
| CMVC1910 | Radar Rat Race | |
| CMVC1911 | The Sky is Falling | |
| CMVC1912 | Mole Attack | |
| CMVC1913 | Fort Knox | |
| CMVC1914 | Adventure Land Adventure | |
| CMVC1915 | Pirate Cove Adventure | |
| CMVC1916 | Mission Impossible Adventure | |
| | | |

The Count Adventure

Gorf (5 games in one).

Sargon II Chess

Omega Race

Voodoo Castle Adventure

Model 1541

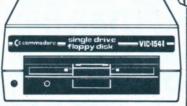
· Single Disk Drive allows fast, highcapacity storage and retrieval. . The disk drive (which is attached to the VIC20 via a single cable to the serial connector) uses 5¼" floppy diskettes.

• With read/write compatibility with Commodore PET/CBM computer sys-

tems, the single disk drive can store up

to 170K on each diskette.

SINGLE 51/4" DISK DRIVE \$339.95



Item No. CM1541

Shpg Wt:15 lbs

Additional Software for VIC 20 and Commodore 64

ATARI Loader 79.95 Load the VIC with this program first, then load Atari programs directly into the computer. Makes all Atari programs run on the

VIC. Specify CMCW100T for tape, CMCW100D for disk. APPLE Loader 79.95

Enables the VIC 64 to run all the Apple programs. Emulates the Apple II+ and increases the availability of software for Commodore Computers. Specify CMCW101T for tape, CMCW101D for disk.

TRS-80® (registered Trademark of the Tandy Corp.)
Emulator for TRS-80® Computers . Permits Radio Shack pro-79.95 grams to run on the VIC. Specify CMCW102T for tape, CMCW102D for disk.

New Character Generator

This program shows how to generate new characters for the VIC by turning off and on each pixel. Make as many as eight new characters for each existing character without losing the characters in ROM. Combine characters into colorful displays or make smaller characters for storing and later use. Includes a demonstration of character animation & action. CMCW103S.

HARDWARE

Additional Hardware for VIC 20 and Commodore 64 CMCW001H Basic MIC(Multiple Interface Connector) A very powerful addition to the VIC 20. Features include: 8K RAM, a machine language monitor, an editing utility aid that gives programmers 26 new commands, a reset button that resets the VIC instantly without switching off the computer, an IEEE peripheral slot for any IEEE device or any VIC cartridges, and a memory/peripheral switch. Permits the machine language monitor and the editing utility to be used TOGETHER WITH-OUT UNPLUGGING ANYTHING---great programming flexi-bility. Can be expanded to a total of 32K RAM in the MIC. CMCW010H IEEE Interface 99.95 Permits usage of any IEEE device or any cartridges to be used with VIC 20 or Commodore 64. Also includes reset button. Adapter will be needed for the Commodore 64. CMCW011H 64 IEEE Adapter (see CMCW010H) 39.95 CMCW012H VIC Cable 24.95 5 lbs

Ten feet long, enables connection of 2 VICs, a VIC & Commodore 64 or VIC with any other Commodore Computer.

Especially useful in multiple systems, such as classrooms, etc.

CMCW013H Stringy Floppy High speed continuous tape data device which plugs directly into the VIC or Commodore 64. Compatible in capacity and speed to single disk (1540/41)-an economical alternative to the disk drive.

CMCW014H IEEE Cable

Connects the MIC or IEEE Interface with any IEEE device.

CMCW015H Atari Cartridge Adapter (Call for best price & availability) Enables all Atari cartridge games and programs to be run on the VIC or Commodore 64 computers. 64 IEEE adapter required for Com. 64.

CMCW016H Light Pen 1 lb 79.95 CMCW017H Reset Button 1 lb 14.95

1 lb 129.95

CMCW018H 40 Column/8K Board 1 lb 129.95 Plugs directly into the VIC giving it the necessary additional memory and a 40 column screen. Useful for word processing and many other applications. Assists in making some PET programs run on the VIC.

DATASETTE RECORDER



Item No. CMVC1600

VICModem

 Write and store programs of several Item No. CMC2N thousand characters on a standard Shpg Wt: 5 lbs audio cassette tape. • Enables the use any of Commodore's prerecorded tapes. • Connects directly into the cassette interface slot on the back of the VIC, and requires no special interface, batteries or power connection.

• Built-in tape counter.

• 250 baud read/write speed, and 100% redundancy on program files.

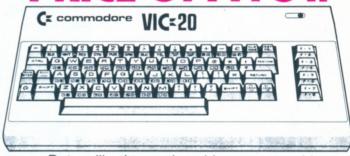
> · Allows communicating by telephone, access telecomputing and timesharing services. • VIC modem cartrige plugs into the VIC20 user's port and connects to any modular-jack phone handset. • Includes VICTERM 1 terminal program on tape.

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