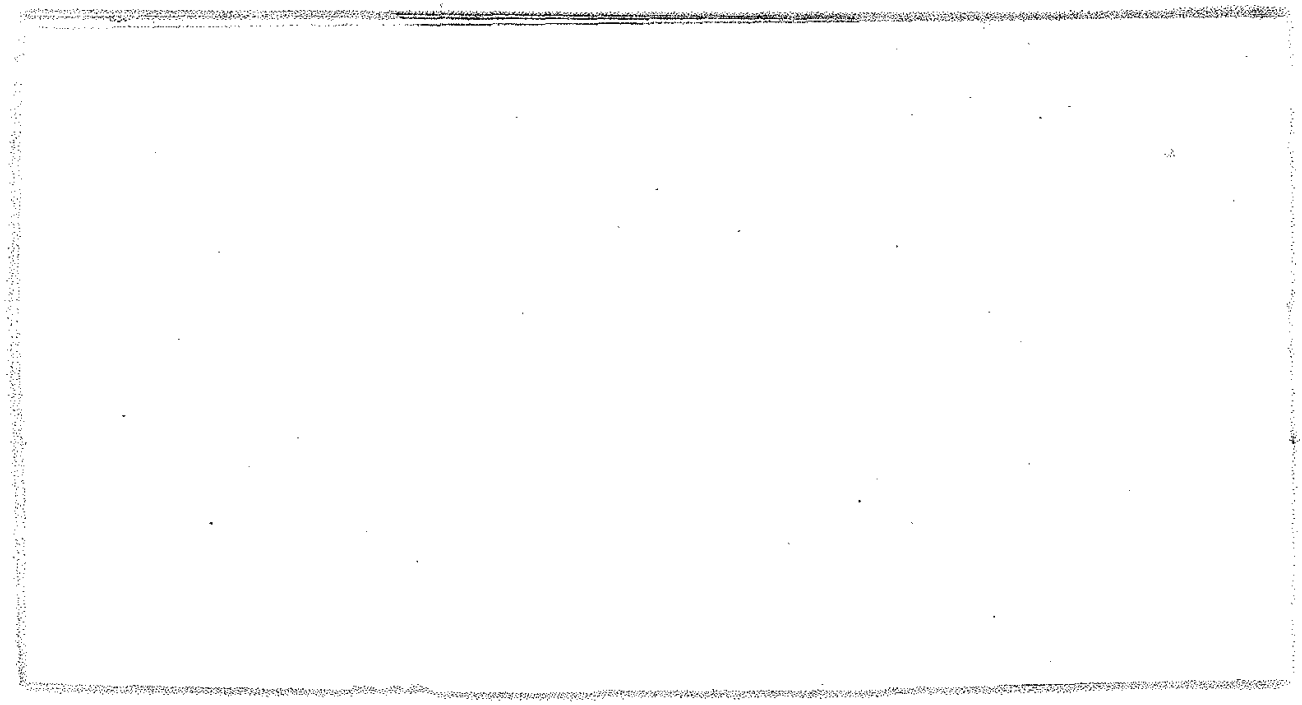
Electronic Calculator

UNITREX mini 8

INSTRUCTION BOOKLET



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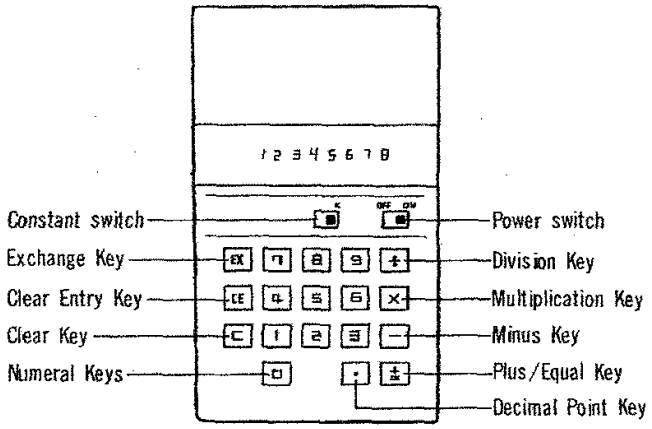
SPECIAL FEATURES

1. Advanced LSI Circuitry — The electronic circuitry is made up of only one LSI (Large Scale Intergation) specially developed for this application. This circuit design makes possible unsurpassed reliability and provides for instant calculation of even the difficult problems.
2. Advanced Decimal System — The machine is automatically preset to give a two place decimal answer. If a different decimal position is desired you may select from 0 to 4 places by depressing decimal point key and a corresponding numeral key (0—4) at the same time.
3. LED Display These light emitting diodes display clear, easy to read figures.
4. Zero Suppression System — Blocks out unnecessary zeros that precede actual figures.
5. Automatic Clear System — The machine automatically clears when it is switched "OFF". It is therefore unnecessary to clear before begining calculation, immediately after switching machine "ON". It is also unnecessary to clear amounts each time between multiplication and division problem.
6. True Credit Balance — All negative entries and totals are displayed with red minus sign. (Please see example.)

7. Overflow System — In case of overflow (exceeding 8 digits capacity) the machine indicates EEE... to prevent mis-calculation. Simply depress [C] Key to remove the overflow situation. (Please see example.)
8. Constant — Slide selector switch to "K" position, then second entry in multiplication and division is retained as constant. (please see example.)
9. Chain and Mixed Calculations — Calculations such as A × B × C ÷ D = X can be performed without intermediate use of the equal [=] key. (Please see example.)
10. Exchange Key—[EX] Key allows wide calculations such as PERCENT to total calculations, PREMIUM, DISCOUNT, POWER CALCULATION and REPEAT. (Please see example.)
11. Simplified Keyboard — The Keyboard is designed to be easily understood even by beginners. Every key is clearly labeled as to its function.
12. AC/DC Operation — The self-contained replaceable batteries permit convenient portable use and an adaptor is provided with the unit for AC operation in home and office use.


Constant switch
Exchange Key
Clear Entry Key
Clear Key
Numeral Keys
Power switch
Division Key
Multiplication Key
Minus Key
Plus/Equal Key
Decimal Point Key

PARTS NAMES & DESCRIPTIONS

CE	Clear Entry Key:	This is used to clear a wrong entry.
C	Clear Key:	This is depressed to clear the displayed figures and all the calculations.
0 – 9	Numeral Keys:	Any one of the ten keys displays the same figure depressed.
·	Decimal Point Key:	Depress to entry decimal point at the proper place when entering amounts with decimals.
−	Minus Key:	This is used in subtraction. Be careful not to use − Key to get total.
÷	Division Key:	This is to be depressed before the divisor is entered in division.
×	Multiplication Key:	This is to be depressed before the multiplier is entered in multiplication.
±	Plus/Equal Key:	This is used in addition, multiplication and division only. When depressed, the results of calculations are displayed.
EX	Exchange Key:	Exchange key reverses dividend and divisor for special applications.
K ■	Constant switch:	When Key is set, constant performance in multiplication and division is automatically established.
	Decimal point:	Decimal points are designated at 0, 1, 2, 3, or 4, and can be set by depressing decimal point key and any numeral key you desire to place a decimal at the same time.

OPERATIONAL EXAMPLES

General Information

1. Power Switch "ON".....indicates 0.00
2. For normal calculation, set "K" switch in home position.
3. If a different decimal position is desired, you may select from 0-4 places by depressing decimal point key and a corresponding numeral key (0-4) at the same time.

Examples

ADDITION & SUBTRACTION

EXAMPLE	OPERATION
11.23+12.56−3.50+13.89=34.18	DPS-2 [C] 11.23 [+] 12.56 [+] 3.50 [−] 13.89 [+]
3.78−1.325−6.55+1.555=−2.540	DPS-3 [C] 3.78 [+] 1.325 [−] 6.55 [−] 1.555 [+]

MULTIPLICATION & CHAIN MULTIPLICATION

1.23×4.567=5.617	DPS-3 [C] 1.23 [×] 4.567 [+]
12.5×23.4×32.6=9535.50	DPS-2 12.5 [×] 23.4 [×] 32.6 [+]

DIVISION & CHAIN DIVISION

1562÷22=71	DPS-0 1562 [÷] 22 [=]
54321÷6÷8=1131.68	DPS-2 54321 [÷] 6 [÷] 8 [=]

CREDIT BALANCE

123+456−789=−210	DPS-0 [C] 123 [+] 456 [+] 789 [−]
20×−15=−300	20 [×] 15 [−]
25÷−5=−5	25 [÷] 5 [−]

CONSTANT MULTIPLICATION

1×360=360	DPS-0 [K] [C] [■] 1×360 [=]
5×360=1800	5 [=]
10×360=3600	10 [=]

CONSTANT DIVISION

EXAMPLE-WITH CONSTANT DIVISOR	
123÷3=41 456÷3=152 789÷3=263	DPS-0 [C] [K] 123 [÷] 3 [=] 456 [=] 789 [=]

MIXED CALCULATION

EXAMPLE	OPERATION
5×6÷2+8=23	DPS-0 [C] 5 [×] 6 [÷] 2 [+] 8 [+]
$\frac{7\times8\div4+8}{2\times3}$=3.6666	DPS-4 7 [×] 8 [÷] 4 [+] 8 [+] [÷] 2 [÷] 3 [+]
8÷(5+3−6)=4	DPS-0 [C] 5 [+] 3 [+] 6 [−] [÷] 8 [EX] [+]

PREMIUM

Cost Price $100.00 25% Profit..... ? 0.25×100=25 Sales Price..... ? 100+25=125	DPS-2 0.25 [×] 100 [=] [EX] [=]

DISCOUNT

List Price $ 100.00 15% Disbount..... ? −0.15×100=−15 Sales Price..... ? 100−15=85	DPS-2 0.15 [×] 100 [−] [EX] [=]

HOW TO FIX LIST PRICE

Cost Price..... $75.00 75÷(1−0.23)= 97.40 Add 23% Profit to List Price List Price..... ? 97.40×0.23+75=97.40	DPS-2 1 [=] 0.23 [−] [÷] 75 [EX] [=] 97.40 [×] 0.23 [=] 75 [=]

PERCENT

30=15% 30+50+120=200 50=25% 30÷200=0.15 50÷200=0.25 120=60% 120÷200=0.60 200=100%	DPS-2 K 30 [±] 50 [±] 120 [±] [÷] 30 [EX] [±] 50 [±] 120 [±]

REPEAT ADDITION & SUBTRACTION

111+222+222+222−222=555	DPS-0 [C] 111 [±] 222 [±] [EX] [±] [EX] [±] [EX] [−]

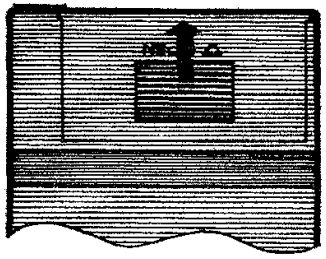
POWER CALCULATION

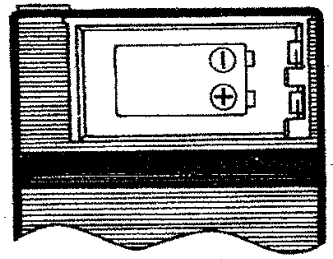
$2^4=16$	DPS-0 2 [×] [EX] [×] [EX] [×] [EX] [±]

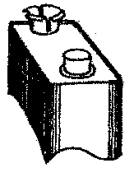
OVERFLOW

OPERATIONAL EXAMPLE	RESULT
Attempt to Enter Nine Digit 1 2 3 4 5 6 7 8 9	EEEEE 0.00
To clear overflow condition depress [C] key	0.00

BATTERY







Preparation for use.

Battery power.

Open the cover of the battery compartment on the bottom of the unit and insert a battery to match the polailty as per drawing. Close the cover and slide the power switch "ON".

Note: Plug out when using battery.

AC power.

This calculator can be operated from the home power by using AC adapter. In case of using AC adapter, Please take care to slide the power switch to the"OFF"possition.

MAINTENANCE INSTRUCTION

This calculator is made up of precision parts such as LSI. Radical changes in temperature or humidity can be harmful. The following points must be carefully noted.

1. Do not drop or jar the machine.
2. Always be certain machine is switched "OFF" when not in operation. This will prevent unnecessary drain on the batteries.
3. Long hours of direct heat rays from the sun or an appliance must be avoided.
4. When cleaning the machine, use a neutral cleaner. Do not use a wet cloth or liquid such as paint thinner.

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