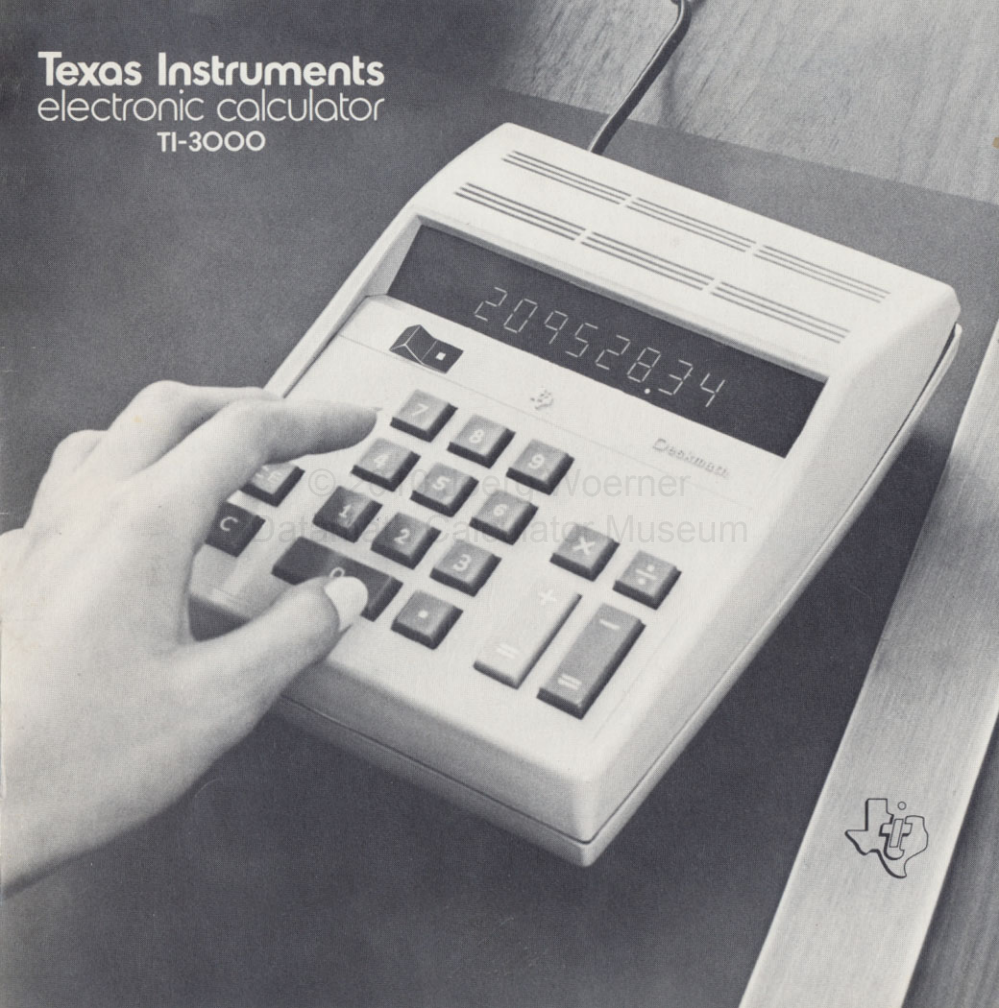
Texas Instruments
electronic calculator
TI-3000



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Convenient Size, Light Weight	Attractively styled for minimum desk-top area. Weighs less than 30 ounces and fits neatly in briefcase or suitcase.
Versatile Performance	Instantly performs addition, subtraction, multiplication, and division with full floating decimal.
Easy to Operate	Keyboard allows entry of numbers and functions in the familiar sequence of standard business machines.
Long Life	Solid-state components and a *calculator-on-a-chip* integrated circuit provide reliable, trouble-free operation.
Convenient AC Operation	Operates directly from household current via the 5½-foot ac line cord.
Bright, Easy-to-Read Display	Large 8-digit display allows hours of fatigue-free operation. The display shows all numerals, floating decimal, negative sign, entry overflow indication "**/**", and calculation overflow indication "**o**".

operational functions

On Switch Located on keyboard. Turns calculator OFF and ON.

[C] Key The [C] key clears (erases) information in calculator and display and sets calculator to zero for start of new problem.

[CE] Key The [CE] key clears the calculator and display of a previous keyboard entry. If a keyboard entry error is made in the middle of a problem the [CE] key is used to clear that mistake (the last entry *only*), thereby allowing the continuation of the problem. The [CE] will not clear a calculated result. The [C] key must be used to clear the calculator after a [+], [=], [×] or [÷].

[+ =] Key This key performs one of two operations: addition and equals.

ADDITION The [+] key instructs the calculator to add the keyboard entry to the previous number on the display *unless* the entry was preceded by a [×] or [÷] instruction.

EXAMPLE 2 [+] 2 [+] 4

EQUALS
If the entry was preceded by a [×] or [÷] instruction, the [+] key will instruct the calculator to enter the keyboard data and to perform the multiplication or division operation.

EXAMPLE 2 [×] 3 [+] 6

This key performs one of three operations: subtraction, equals and changing value.

SUBTRACTION

The [=] key instructs the calculator to subtract the keyboard entry from the previous number on the display, unless the entry was preceded by either a [×] or [÷] instruction.

EXAMPLE 4 [−] 2 [=] 2

EQUALS

If the entry was preceded by either a [×] or [÷] instruction. The [=] key will instruct the calculator to enter the keyboard data as a negative number and then to perform the [×] or [÷] operation.

EXAMPLE 2 [×] 3 [=] 6

CHANGE VALUE The [=] key changes a positive display number to a negative number.

[×] Key — Instructs the calculator to MULTIPLY the previous number or result by the following number.

[÷] Key — Instructs the calculator to DIVIDE the previous number or result by the following number.

[•] Key — Enters a DECIMAL point.

[0] – [9] Keys — Enters NUMBERS (limit 8 digits).

Power On Indication — A zero appears in the extreme right digit position of the display when power switch is on. No other numbers are displayed.

Minus Sign — Appears at extreme right of display to indicate negative numbers.

Decimal Point — Automatically appears to the right of any number entered unless positioned in another sequence by use of ⊡ key. A zero will precede the decimal for fractional numbers.

Entry Overflow — A "*I*" sign appears at far right of display to indicate entry of more than 8 digits.

Calculation Overflow — A "**o**" sign appears at far right of display to indicate a result with more than 8 digits before the decimal point.

operation examples

Calculator Operation

First, plug the TI-3000 calculator power cord into a suitable electrical outlet. Then, place the keyboard switch in the ON position. A zero will appear in extreme right digit position of the display.

Performing calculations with your new calculator is easy. Numbers and functions are entered in the same sequence as any standard business machine. *The important thing to remember is that the value of a number (either positive or negative) is always entered immediately after the number, when either adding, subtracting or performing mixed calculations.* The ± key and the = key actually have dual purposes. They instruct the calculator to perform the previous operations *and* they also assign a positive or negative value to the previous input. For example, to perform the calculation five plus four, you press the keys C 5 ± 4 ± The calculator says "five, plus, 4, plus,

equals". The answer displayed is nine.

To perform the calculation five minus four, you press the keys [C] 5 [±] 4 [=]. The calculator says "five, plus (positive value), 4, minus (negative value), equals". The answer displayed is one.

When performing multiplication or division the value of a number is assumed to be positive. To assign a negative value simply press the [=] key immediately following the number.

The following examples will help you.

Addition and Subtraction

EXAMPLE $4.23 + 4 = 8.23$
OPERATION
[C] 4 [•] 23 [±] 4 [±] 8.23

EXAMPLE $6 - 1.854 = 4.146$
OPERATION
[C] 6 [±] 1 [•] 854 [=] 4.146

EXAMPLE $12.32 - 7 + 1.6 = 6.92$
OPERATION
[C] 12 [•] 32 [±] 7 [=] 1 [•] 6 [±] 6.92

Multiplication and Division

EXAMPLE $27.2 \times 18 = 489.6$
OPERATION
[C] 27 [•] 2 [×] 18 [±] 489.6

EXAMPLE $12 \div 5.2 = 2.3076923$
OPERATION
[C] 12 [÷] 5 [•] 2 [±] 2.3076923

EXAMPLE $(4 \times 7.3) \div 2 = 14.6$
OPERATION
[C] 4 [×] 7 [•] 3 [÷] 2 [±] 14.6

Mixed Calculations

Mathematical operations can be performed with combinations of addition, subtraction, multiplication and division.

EXAMPLE $\frac{(8.3+2)}{4}-6.8=-4.225$

OPERATION

[C] 8 [·] 3 [±] [+] 2 [±] [÷] 4 [±] [−] 6 [·] 8 [=] −4.225

EXAMPLE $4\times5=20$ and $20\div8=2.5$
(continuation of problem)
OPERATION

4 [×] 5 [±] [+] 20 [÷] 8 [±] [−] 2.5

EXAMPLE $6\times3=18$ (answer one)
$3\div8=0.375$ (answer two)
OPERATION

6 [×] 3 [±] [+] 18 (answer one)

3 [÷] 8 [±] [−] 0.375 (answer two)

NOTE: Entry of a number into the keyboard followed by a [×] or [÷] operation automatically clears the calculator, making it unnecessary to operate the [C] key before each problem of this type.

Calculations With Positive and Negative Numbers

When performing multiplication or division, a negative value is assigned to a number by pressing the [±] [−] key directly *after* entering the number.

EXAMPLE $\left(\frac{-125}{5}\right)+3\times(-4)=88$

OPERATION

[C] 125 [±] [−] [÷] 5 [±] [+] 3 [±] [−] [×] 4 [±] [−] 88

Mark-Up

EXAMPLE: Determine the sales price of an item with original cost of $47.03 and mark-up of 24%.

Calculating formula: 47.03×1.24
OPERATION

[C] 47 [•] 03 [×] 1 [•] 24 [±] 58.3172 ($58.32)

Discount

EXAMPLE: Determine the sale price of a $35.50 item with 12% discount and 6% tax on the discounted price.

Calculating formula: $(1 - .12) \times 35.50 \times 1.06$
OPERATION

[C] 1 [±] [•] 12 [=] [×] 35 [•] 50 [×] 1 [•] 06 [±] 33.1144 or $33.11

Interest Rates

EXAMPLE: Determine total interest amount of a $3000 , 3 year loan at 6% compounded annually.

Calculating formula:
$(3000 \times 1.06 \times 1.06 \times 1.06) - 3000$
OPERATION *

[C] 3000 [×] 1 [•] 06 [×] 1 [•] 06 [×] 1 [•] 06 [±] 3000 [=] 573.048 or $573.05

*Yearly interest amounts are shown in sub-totals.

Entry Overflow

The calculator will accept any number up to 8 digits. If an entry exceeds 8 digits, the signal "*I*" will appear when the ninth digit key is pressed. The error condition can be removed by pressing the [C] key.

Calculation Overflow

If a calculation result is more than eight digits before the decimal, the signal "**o**" will be displayed with the answer. To determine the correct answer, mentally move the decimal eight digits to the right.

EXAMPLE $-13{,}625 \times 1{,}000{,}000 = -13{,}625{,}000{,}000$
OPERATION

C 13625 = × 1000000 ± 136.25000 o

After a calculation overflow, the calculator must be cleared with the C key before additional operations can be performed. NOTE: If the result is negative, the negative sign will be lost when calculation overflow occurs.

Calculation Round Off

Excess digits to the right of the decimal in a calculation result (only eight digits can be displayed) are dropped, not rounded.

EXAMPLE $0.0596 \times 0.0458 = 0.00272968$
OPERATION

C . 0596 × . 0458 ± 0.0027296

in case of difficulty

1. Check to be sure calculator is correctly plugged into a proper outlet that has power. Press C key.
2. Check to be sure ON-OFF switch is in the ON position. A full-size "0" should appear in far right digit position on display.
3. Review operating instructions to be certain calculations are performed correctly.

If none of these corrects the difficulty, return the unit prepaid for repair to your nearest Texas Instruments Consumer Service Facility listed on following page. Please include information on your difficulty as well as return information of name, address, city, state and zip code.

specifications

Type	TI-3000 electronic calculator
Display	8-digit gas discharge display.
Decimal Point	Complete floating decimal on input and output.
Types of Calculations	Addition, subtraction, multiplication, and division. Credit balance. Mixed calculations.
Overflow	"**I**" Sign on display indicates data entry overflow. "**o**" Sign on display indicates calculation overflow.
Negative Sign	True value indication with minus sign on display.
Calculation Components	One MOS/LSI Integrated Circuit
Power Source	Operates directly from AC line current—108 to 130V, 50-60 Hz.

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Warranty

This electronic calculator from Texas Instruments is warranted to the original purchaser for a period of one year from the original purchase date—under normal use and service—against defective materials or workmanship.

Defective parts will be repaired, adjusted, and/or replaced at no charge when the calculator is returned prepaid to a Texas Instruments Consumer Service Facility listed in the Owner's Manual.

The warranty is void if the calculator has been visibly damaged by accident, misuse, or if the calculator has been serviced or modified by any person other than a Texas Instruments Consumer Service Facility.

This warranty contains the entire obligation of Texas Instruments Incorporated and no other warranties expressed, implied, or statutory are given.

The warranty is void unless the Purchase Registration Card has been properly completed and mailed to Texas Instruments Incorporated within 10 days of purchase.

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Texas Instruments consumer service facilities

For warranty or out of warranty service send your calculator to the nearest service facility.

Texas Instruments Service Facility
P. O. Box 477
Springfield, New Jersey 07081

Texas Instruments Service Facility
P. O. Box 970
Arlington Heights, Illinois 60006

Texas Instruments Service Facility
P. O. Box 1967
Orange, California 92668

Texas Instruments Service Facility
P. O. Box 5012 M/S 10
Dallas, Texas 75222

Suggested uses for your new Texas Instruments calculator...

HOME USES:

- ☐ balance your checkbook
- ☐ prepare tax statements
- ☐ calculate interest rates
- ☐ plan household budgets
- ☐ plan investments
- ☐ verify grocery bills
- ☐ student homework
- ☐ keep score in family games (bridge, etc.)
- ☐ calculate material requirements for workshop projects

BUSINESS USES:

- ☐ budget planning
- ☐ purchasing
- ☐ expense accounts
- ☐ accounts receivable
- ☐ accounts payable

STUDENT USES:

- ☐ accounting
- ☐ mathematics
- ☐ statistics

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