

ELECTRONIC CALCULATOR

with IC

COMPET CS-361R



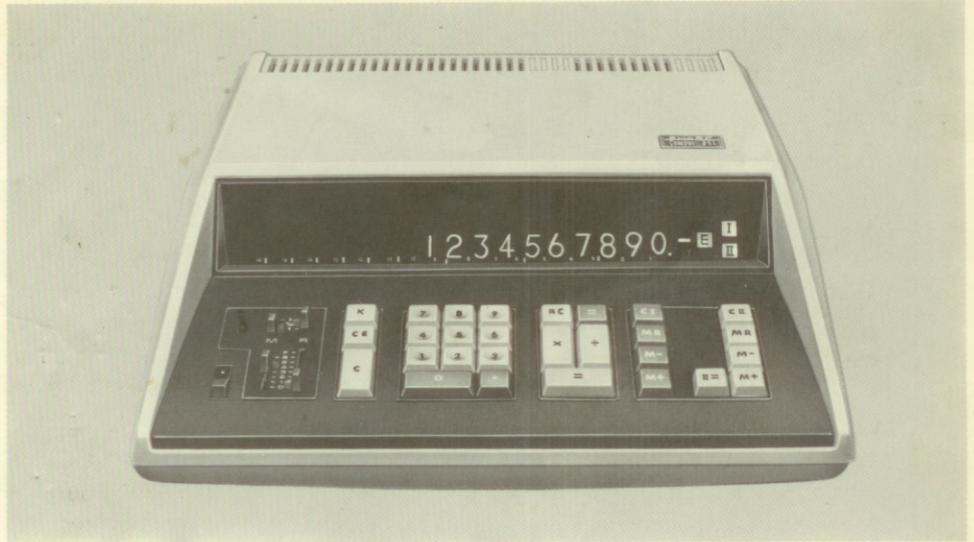
SHARP

ALL NEW!

A slim-styled electronic performer with deep-think extras!

Our all new Compet CS-361R is super-fast and super-convenient. Performs the most complicated calculations up to 16 digits and 15 decimal places with our unique floating decimal system with maximum efficiency. A zero suppress system and rapid round up/down/off device make calculations easy and simple while saving time. Three working registers and two memory banks provide maximum calculation versatility, and the non-glare soft light display panel makes reading figures pleasant and errorless.

Sharp uses specially manufactured MOS-ICs which eliminate many parts and allow maximum utilization of



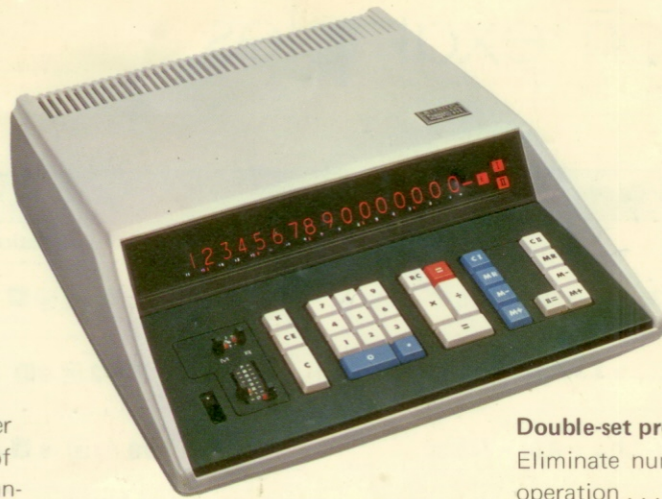
improved features. The CS-361R has an automatic clearing device, tabulation selector, memory retention and automatic credit balance systems and many others.

Backed by half a century of

pioneering research and world-wide customer satisfaction, the CS-361R offers a truly scientific advancement into the computer age.

A solid champion for all calculation needs!

Outstanding features



Stable performance

Advanced IC, Core Memory and other semi-conductors reduce the amount of working parts enormously and assure unsurpassed stability and performance.

Compact

Revolutionary breakthrough in IC makes the CS-361R a truly compact calculator that can be carried anywhere with utmost ease and convenience.

Memory retaining system

Newly developed Core Memory retains the contents stored in the memory after the machine is turned off.

Dynamic calculation versatility

Two memory registers enable extremely complicated and diverse calculations, such as sum of products, products of sum, etc.

One-touch square root extraction

Preset and floating decimal system

For easy reading, the CS-361R permits a choice of complete floating decimals during calculation and preset decimals with 7 options (0, 1, 2, 3, 4, 6, 8). This unique feature makes the CS-361R a truly versatile calculator.

Simplified operation

The steps for successive multiplication and division are simplified. Just enter the problems into the machine as you would write them on paper. Simplified chain addition widens the limit of constant calculation. Requires no special training.

Rounding up/off/down device

In addition to convenient Round off/down device that counts fractions over 1/2 as one and discards others, the CS-361R has a unique Round up device for counting fractions as one.

Automatic credit balance indication

Sign functions on each register enable perfect sign indication. For easy reading, a sign lamp is located on the right-hand side of the display panel.

Snap reading

Advanced zero suppress system and 3 digit electronic punctuation speed up operation and make figure reading easier.

Double-set protection keys

Eliminate numeral setting error, speed up operation... no more worry about double-setting keys.

Three working registers

One for keeping the read-in number and answer; two for calculation. Enables full 16 digit calculations, such as 16 digits \times (\div) 16 digits = 16 digits.

Convenient lamps for overflow error check and memory.

When an overflow occurs, which exceeds the machine's capacity, all the digits turn off with 3 digit punctuations displayed and the error lamp on. Memory lamp turns on when a memory entry is registered.

Automatic clearing system

The machine is automatically cleared when the machine is turned on.

Non-glare soft lighting display panel

Eliminates eye-strain for long continued use and makes reading easy.

Ultra-modern sophisticated styling

Lightweight, noiseless and easy to carry, the CS-361R enhances modern decors, upgrades working atmosphere.

Key identification

Indication lamp

- E** Overflow error lamp
- Minus sign lamp
- I** Memory lamp for No.1 memory
- II** Memory lamp for No.2 memory

Tabulation selector

- F: Floating decimal point setting position.
- M: Memory calculation
- R: Non-memory calculation

Rounding up/off/down switch

Set ▲ for rounding up, 5/4 for rounding off and ▼ for rounding down (discarding).

- ÷** **Division key**
Orders division. The key lamp turns on when the key is depressed
- =** **Equal key**
Derives sum, product and quotient.
- CI** **Clear No. 1 memory key**
Clears the contents stored in No.1 memory.
- CII** **Clear No. 2 memory key**
Clears the contents stored in No.2 memory.
- II=** **Memory-two equal key**
With the **x** or **÷** key engaged, orders constant multiplication or division by the contents of No.2 memory register and derives its product or quotient onto the display panel. The contents of No.2 memory register still remains in the memory register.



- K** **Constant key**
Used for carrying out calculations with a constant. Depress to lock the key. Depress again to unlock the key.
- CE** **Clear entry key**
Clears figures entered by error.
- C** **Clear key**
Clears all the contents except memory register.
- 0-9** **Numeral keys**
- .** **Decimal point key**
- RC** **Recall key**
Exchanges the contents of No.1 register (displayed figures) with those of No.2 register.
- =** **Red equal key**
Orders subtraction. Also derives product or quotient in the case of negative multiplier or divisor.
- x** **Multiplication key**
Orders multiplication. The key lamp turns on when the key is depressed.

- MR** **Memory recall keys (for No. 1 & No. 2 memories)**
Summon the contents stored in corresponding memories (No.1 & No.2) onto the display panel.
- M-** **Memory minus keys (for No. 1 & No. 2 memories)**
 - a) When depressed with the **x** or **÷** key not engaged, the key orders subtraction and subtracts the contents of No.1 register from the contents of No.1 (or No.2) memory.
 - b) When depressed with the **x** or **÷** key engaged, the key orders multiplication or division and subtracts its product or quotient from the contents of No.1 (or No.2) memory.
- M+** **Memory plus keys (for No. 1 & No. 2 memories)**
 - a) When depressed with the **x** or **÷** key not engaged, the key orders addition and adds the contents of No.1 register to the contents of No.1 (or No.2) memory.
 - b) When pressed with the **x** or **÷** key engaged, the key orders multiplication or division and adds its product or quotient to the contents of No.1 (or No.2) memory.

Calculation examples

CALCULATIONS	EXAMPLES	STEPS		
		TAB	RD	TAB=Tabulation, RD=Rounding switch
Addition, subtraction	$35.62 - 0.53 - 40.15 = -5.06$	R 2 M 0	▼ ▼	35 + 62 = 53 = 40 15 = ⇒ -5.06
Multiplication, successive multiplication	$2.2 \times 3.3 \times 4.4 \times 5.5 = 175.6920$	R 4 M 0	▼ ▼	2 2 × 3 3 × 4 4 × 5 5 = ⇒ 175.6920
	$(-78) \times (-9.6) = 748.80$	R 2 M 0	▼ ▼	78 = × 9 6 = ⇒ 748.80
Division, successive division	$256 \div 12 \div 0.56 = 38.095238$	R 6 M 0	▼ ▼	256 ÷ 12 ÷ 56 = ⇒ 38.095238
	$(-87.2) \div (-6.33) = 13.77567140$	R 8 M 0	▼ ▼	87 2 ÷ 6 33 = ⇒ 13.77567140
Multiplication and division check (Recall multiplicand or divisor by touching RC key to check the results.)	$1.23 \times 98.7 = 121.401$ (to be checked)	R 3 M 0	▼ ▼	1 23 × 98 7 = (⇒ 121.401) ÷ RC (⇒ 1.23) = ⇒ 98.700
	$3 \div 1 = 3$ (to be checked)	R 0 M 0	▼ ▼	3 ÷ 1 = (⇒ 3) × RC (⇒ 1) = 3 (dividend)
Rounding off	$0.14285 \times 7 = 0.99995$ (rounding off to the 5th decimal place)	R 4 M 0	5/4 ▼	14285 × 7 = ⇒ 1.0000
Rounding up	$10 \div 3 = 3.33333 \dots$ (rounding up to the 5th decimal place)	R 4 M 0	▲ ▼	10 ÷ 3 = ⇒ 3.3334
Product + product	$(123 \times 0.55) + (43 \times 0.76) = 100.33$	R 2 M 2	▼ ▼	C CI 123 × 55 M+ ⇒ 67.65 43 × 76 M+ ⇒ 32.68 MR ⇒ 100.33
Sum x sum	$(35 + 186) \times (8 + 47) = 12155$	R 0 M 0	▼ ▼	C CI 35 M+ 186 M+ C 8 = 47 = × = ⇒ 12,155
Multiplication, division by constant	In the case K key is used $99.99 \times 11.11 = 1110.8889$ $99.99 \times 33.33 = 3332.6667$ $99.99 \times 44.44 = 4443.5556$	R 4 M 4	▼ ▼	K 99 99 × 11 11 = ⇒ 1,110.8889 33 33 = ⇒ 3,332.6667 44 44 = ⇒ 4,443.5556
	In the case M key is used $22.22 \times 12.3 = 273.3060$ $55.55 \times 12.3 = 683.2650$ $66.66 \times 12.3 = 819.9180$	R 4 M 4	▼ ▼	C CI 12 3 M+ C 22 22 × M+ ⇒ 273.3060 55 55 × M+ ⇒ 683.2650 66 66 × M+ ⇒ 819.9180
Exponent calculation	$3^2 = 9, 3^3 = 27, 3^4 = 81$	R 0 M 0	▼ ▼	K 3 × = ⇒ 9 = ⇒ 27 = ⇒ 81
Square root extraction	$\sqrt{53987} = 232.35102754$	R 8 M 0	▼ ▼	53987 ÷ = ⇒ 232.35102754
Mixed calculation	$\frac{\sqrt{(15)^2 - (3.3 \times 4.2)}}{3.2 \times 1.68} = 2.7029$	R 4 M 4	5/4 ▼	C CI 15 M+ 3 3 × 4 2 M- MR CI ÷ M- 3 2 × 1 68 ÷ MR RC = ⇒ 2.7029
Ratio calculation	52260 is divided into 56, 74, 92, 180 proportion	R 2 M 2	5/4 5/4	C CI 56 M+ 74 M+ 92 M+ 180 M+ 52260 ÷ MR K × 56 = ⇒ 7,280.00 74 = ⇒ 9,620.00 92 = ⇒ 11,960.00 180 = ⇒ 23,400.00

