



# Casio MS-20UC-BK Desktop Calculator User's Guide

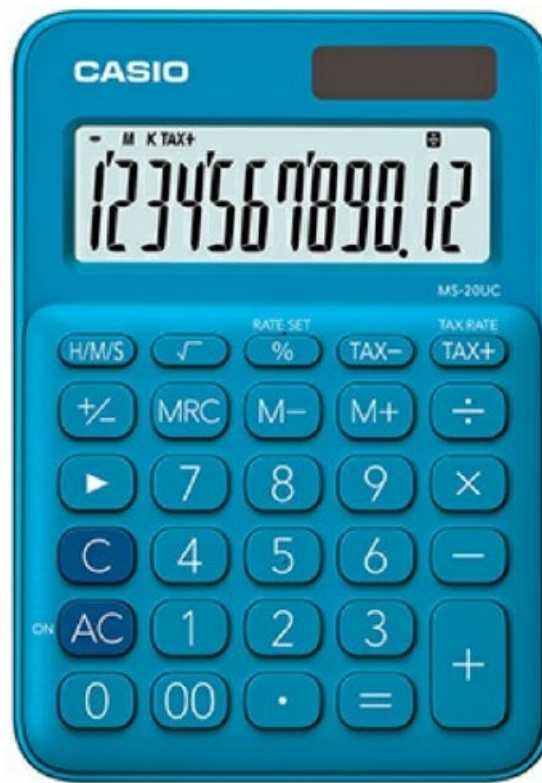
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# CASIO

**Casio MS-20UC-BK Desktop Calculator**



Be sure to keep all user documentation handy for future reference.

### Important Precautions

- If you suspect that the calculator is operating abnormally due to static electrical charge or some other problem, press A to restore normal operation.
- Avoid dropping the calculator and otherwise subjecting it to severe impact.
- Never try to take the calculator apart.
- Wipe the unit with a soft, dry cloth to clean it.
- Replacing the battery or blocking the calculator from sunlight while battery power is low may cause your tax rate setting or memory contents to be changed or lost. Replace the battery as soon as possible when it becomes weak and correct the tax rate setting, if necessary.
- The contents of these instructions are subject to change without notice.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss or claims by third parties which may arise from the use of this product.

### Power Supply

Two-Way Power System provides power even in complete darkness.

- Always leave battery replacement up to an authorized dealer.
- The battery that comes with this unit discharges slightly during shipment and storage. Because of this, it may require replacement sooner than the normal expected battery life.

### Auto Power Off Function

- Auto power off: Approximately 6 minutes after last key operation

## Tax Calculations

### To set a tax rate

- Example: Tax rate = 0% → 5%
  - A% (RATE SET) (Until SET appears.)

TAX	SET	%
		0.

- 5 % (RATE SET)

TAX	%
	5.

You can check the currently set rate by pressing A and then S(TAX RATE).

## Time Calculations



- **Hours (H) input:** 7 digits (MS-20UC), 5 digits (MS-7UC/SL-310UC)
- **Minutes (M)/Seconds (S) input:** 0 to 99. Values greater than 59 are automatically adjusted by adding to the hours/minutes.
- **Time calculation range:**
  - 999999 hours 59 minutes 59 seconds to 9999999 hours 59 minutes 59 seconds (MS-20UC)
  - 99999 hours 59 minutes 59 seconds to 999999 hours 59 minutes 59 seconds (MS-7UC/SL-310UC)

Important! Time calculations are performed internally using decimal values.

## Specifications

- **Power Supply:** Two-Way Power System, with solar cell and one button type battery (LR54 (LR1130))
- **Battery Life:** Approximately 3 years (1 hour operation per day)
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Dimensions (H) × (W) × (D) / Approximate weight (including battery)**
  - **MS-20UC:** 22.8×105×149.5 mm (7/8"×41/8"×57/8") / 110 g (3.9 oz)
  - **MS-7UC:** 19.4×85.5×120 mm (3/4"×33/8"×43/4") / 70 g (2.5 oz)
  - **SL-310UC:** 8.4×70×118 mm (5/16"×23/4"×45/8") / 50 g (1.8 oz)

## Product Usage Instructions

		
$6 \div 3 \times 5 + 2.4 - 1 = 11.4$ $2 \times (-3) = -6$	$6 \div 3 \times 5 + 2.4 - 1 = 11.4$ $2 \times (-3) = -6$	0. 11.4 -6.

1.  $6 \div 3 \times 5 + 2.4 - 1 = 11.4$
2.  $2 \times (-3) = -6$

$1 + 5 = 6$	$5 + 1 = 6$	K	6.
$3 + 5 = 8$	$3 = 3$	K	8.
$7 - 6 = 1$	$6 - 7 = -1$	K	1.
$2 - 6 = -4$	$2 = 2$	K	-4.
$3 \times 2 = 6$	$2 \times 3 = 6$	K	6.
$4 \times 2 = 8$	$4 = 4$	K	8.
$15 \div 3 = 5$	$3 \div 15 = 0.2$	K	5.
$21 \div 3 = 7$	$21 = 21$	K	7.

### Addition:

1.  $1 + 5 = 6$
2.  $3 + 5 = 8$

### Subtraction:

1.  $7 - 6 = 1$
2.  $2 - 6 = -4$

### Multiplication:

1.  $3 \times 2 = 6$
2.  $4 \times 2 = 8$

### Division:

1.  $15 \div 3 = 5$
2.  $21 \div 3 = 7$

$\sqrt{4} \times 5 = 10$	$4\sqrt{\times}5\equiv$	10.
$100 \times 5\% = 5$	$1\text{00}^{*1}\times5\%$	5.
$100 + (100 \times 5\%) = 105$	$1\text{00}^{*1}\times5\%\oplus$	105.
$10 - (10 \times 20\%) = 8$	$10\text{\texttimes}20\%\ominus$	8.
$30 = 60 \times ?\% \qquad ? = 50$	$30\div60\%$	50.
$12 = 10 + (10 \times ?\%) \qquad ? = 20$	$12\ominus10\%$	20.
<div><div>\$120</div><div><div>?</div><div>(\$40)</div></div><div><div>100%</div><div>25%</div></div><div>?</div><div>(\$160)</div></div>	$120\oplus25\%$ $\ominus$	160. 40.

\*1 100 (SL-310UC)

1.  $4 \times 5 = 10$   $4 \times 5 = 10$
2.  $100 \times 5\% = 5$   $100 \times 5\% = 5$
3.  $100 + (100 \times 5\%) = 105$   $100 + (100 \times 5\%) = 105$
4.  $10 - (10 \times 20\%) = 8$   $10 - (10 \times 20\%) = 8$
5.  $30 = 60 \times ?\%$   $30 = 60 \times ?\% = 50$
6.  $12 = 10 + (10 \times ?\%)$   $12 = 10 + (10 \times ?\%) = 20$ .
7. A calculation involving \$120, where \$40 is 25% of the initial amount, and the total amount is shown to be \$160.  
The percentage of \$160 that \$120 represents is 75%, so the result shown on the calculator is "40," indicating the remaining 25%.

$8 \times 9 = 72$ $-) 5 \times 6 = 30$ $2 \times 3 = 6$ $48$	<div> <div>MRC</div> <div>MRC</div> <div><math>\times 2</math></div> <div>8</div> <div>9</div> <div>=</div> </div> <div> <div>M</div> <div>72.</div> </div> <div> <div>5</div> <div>6</div> <div>=</div> </div> <div> <div>M</div> <div>30.</div> </div> <div> <div>2</div> <div>3</div> <div>=</div> </div> <div> <div>M</div> <div>6.</div> </div> <div> <div>MRC</div> <div><math>\times 3</math></div> </div> <div> <div>M</div> <div>48.</div> </div>
$2 + 3 = 6$ $2 - 7 = -5$ $5 + 77 = 12$	<div> <div>2</div> <div>+</div> <div>3</div> <div>=</div> <div>6.</div> </div> <div> <div>2</div> <div>-</div> <div>7</div> <div>=</div> <div>-5.</div> </div> <div> <div>5</div> <div>+</div> <div>77</div> <div>=</div> <div>12.</div> </div>
$9999999999999999 \times 4 + 1 =$ $10000000000000000 \times 5$	<div> <div>9999999999999999</div> <div><math>\times 4</math></div> <div>+</div> <div>1</div> <div>=</div> <div>E</div> <div>1.0000000000000000</div> <div><math>\times 5</math></div> </div> <div> <div>AC</div> <div>0.</div> </div>

\*2 (SL-310UC)

\*3 (SL-310UC)

## Mathematical Expressions and Their Calculator Representation:

- $8 \times 9 = 72$   $8 \times 9 = 72$ 
  - Calculator: MRCMRC \* 2AC8×9=MRCMRC \* 2AC8×9=M Result: 72.
- $-5 \times 6 = 30$   $-5 \times 6 = 30$ 
  - Calculator: 5×6=5×6=M Result: 30.
- $2 \times 3 = 6$   $2 \times 3 = 6$ 
  - Calculator: 2×3=2×3=M Result: 6.
- 48
  - Calculator: MRC \* 3M Result: 48.

## Calculator References:

- \*2 (SL-310UC)
- \*3 (SL-310UC)

## Other Expressions:

- $2 + 3 = 6$   $2 + 3 = 6$ 
  - Calculator: 2+3C4= Result: 6.
- $2 + 7 = -5$   $2 + 7 = -5$ 
  - Calculator: 2+7=2+7= Result: -5.
- $5 + 77 = 125$   $5 + 77 = 12$

- Calculator:  $5+77=5+77=$  Result: 12.

## Large Number Expressions:

- $999999999999 \times 4 + 1 = 1000000000000999999999999 \times 4 + 1 = 10000000000000$ 
  - Calculator:  $999999999999 \times 4 + 1 = 999999999999 \times 4 + 1 =$  E Result:  
 $1.000000000000 \times 1061.000000000000 \times 106$
- \*4 9999999999 (MS-7UC/SL-310UC)
- \*5 10000000000 (MS-7UC/SL-310UC)
- \*6 1.0000000000 (MS-7UC/SL-310UC)

## Tax rate

\$150 → ???

AC 150 TAX+	TAX+	157.5	*7
TAX+	TAX	7.5	*8
TAX+	TAX+	157.5	*7

\$105 → ???

AC 105 TAX-	TAX-	100.	*9
TAX-	TAX	5.	*8
TAX-	TAX-	100.	*9

- \*7 Price-plus-tax
- \*8 Tax/Impuesto
- \*9 Price-less-tax

12H30M45S → 12.???	AC 12 H/M/S 30 H/M/S 45 H/M/S H/M/S H/M/S	12-30'45" 12.5125 12-30'45"
12.3456 → ?H?M?S	AC 12.3456 H/M/S H/M/S	12.3456 12-20'44" 12.3456
72S → ?M?S	AC 0 H/M/S H/M/S 72 H/M/S	0-01'12"
350M → ?H?M	AC 350 H/M/S 60 H/M/S	5-50'00"
10H20M30S +) 8H40M25S 19H00M55S	AC 10 H/M/S 20 H/M/S 30 H/M/S + 8 H/M/S 40 H/M/S 25 H/M/S =	19-00'55"
2H30M40S -) 1H00M30S 1H30M10S	AC 2 H/M/S 30 H/M/S 40 H/M/S - 1 H/M/S H/M/S 30 H/M/S =	1-30'10"
\$9.00 × 7.5H = \$???.??	AC 9 X 7 H/M/S 30 H/M/S H/M/S =	67.5

## Manufacturer Information



- **Company Name:** CASIO COMPUTER CO., LTD.
- **Address:** 6-2, Hon-machi 1-chrome, Shibuya-ku, Tokyo 151-8543, Japan

## European Union Representative



- **Company Name:** Casio Europe GmbH
- **Address:** Casio-Platz 1, 22848 Norderstedt, Germany
- **Website:** [www.casio-europe.com](http://www.casio-europe.com)

## Frequently Asked Questions

What should I do if my calculator is not working properly or has static electrical charge issues?

If you suspect that the calculator is operating abnormally due to static electrical charge or some other problem, the first step is to press the A key to restore normal operation. This action can often resolve minor issues or disruptions in the calculator's functionality caused by static electricity or other transient problems.

Is it safe to drop the calculator or subject it to severe impact?

No, it is not safe to drop the calculator or subject it to severe impact. The calculator is a delicate electronic device, and physical impacts, such as dropping it, can lead to internal damage that may affect its performance. It's essential to handle the calculator with care to ensure its proper functioning and longevity.

Can I take the calculator apart for repairs?

No, you should never try to take the calculator apart. Disassembling the calculator can not only void any warranty but also pose risks of damaging internal components or making the calculator non-functional. If you encounter issues that require repairs, it's best to seek assistance from an authorized service center or dealer.

How should I clean the calculator?

To clean the calculator, use a soft, dry cloth. This will help remove dust and smudges without causing any damage to the device. Avoid using liquid cleaners or abrasive materials, as they may harm the calculator's surface or display.

What precautions should I take when replacing the battery?

When replacing the battery, be cautious about the potential impact on your calculator's settings. If you delay battery replacement or block the calculator from sunlight when the battery is low, it may cause changes or loss of settings, such as tax rate settings or memory contents. Therefore, it's advisable to replace the battery promptly when it becomes weak and ensure that you restore any necessary settings, such as tax rates.

What is the auto power-off function of the calculator?

The calculator is equipped with an auto power-off function that activates approximately 6 minutes after the last key operation. This feature helps conserve battery life by automatically turning off the calculator when it remains idle for a specified period. It's a helpful feature to ensure that the calculator doesn't drain its power unnecessarily.

How can I set a tax rate on the calculator?

Setting a tax rate on the calculator involves a specific sequence of key presses. For example, to set a tax rate from 0% to 5%, you would press the A% key (RATE SET) until SET appears, and then enter 5% (RATE SET). To check the currently set tax rate, you can press A and then S (TAX RATE).

What are the specifications of the Casio MS-20UC-BK Desktop Calculator?

The Casio MS-20UC-BK Desktop Calculator features a Two-Way Power System, combining a solar cell and a one-button type battery (LR54 or LR1130). The battery has an approximate lifespan of three years with one hour of operation per day. The calculator is designed to operate in temperatures ranging from 0°C to 40°C (32°F to 104°F). It is available in various dimensions and weights depending on the model.

Are there any additional usage instructions for the calculator?

In addition to basic functions, the calculator includes instructions and examples for various mathematical expressions, including addition, subtraction, multiplication, and division. These instructions are provided to assist users in performing calculations accurately and efficiently.

Can I use the calculator in complete darkness, and how does it receive power?

Yes, the calculator can be used even in complete darkness thanks to its Two-Way Power System. This system combines a solar cell for light-powered operation and a one-button type battery (LR54 or LR1130) for backup power.

How long does the battery that comes with the calculator last, and why might it need replacement sooner?

The battery included with the calculator may discharge slightly during shipment and storage, which means it may require replacement sooner than its normal expected battery life. It's advisable to monitor the calculator's performance and replace the battery promptly when it becomes weak to prevent any loss of settings or memory contents.

Are there any special functions for tax-related calculations or price adjustments?

Yes, the calculator provides tax-related functions. You can set tax rates and perform price adjustments.



Additionally, there are examples provided for calculations involving tax rates and price adjustments in the user documentation.

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