

DoubleCheck

Talking Commercial Calculator



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1: Introduction

DoubleCheck, our commercial calculator with integrated speech output, not only provides the standard arithmetic functions, but also combines numerous other functions in one small and handy device!



CONSULT INSTRUCTIONS BEFORE USE! Do not operate DoubleCheck without reading the instruction manual. Get acquainted with the device and all the accessories. Keep the instruction for reference reading and pass it on with the device.

2: Description of the Device

The case is long and flat with a shape similar to a remote control. On the surface are various keys, as well as the noticeable, flat display. Put the device in front of you so that the end with the display is furthest away from you.

Upper Side: All the keys can be found on the upper side. They are subdivided into 2 groups. The first group (nearest to you) consists of 4 rows, each including 4 small, square keys. The second group consists of 3 rows, each including 3 bigger, rectangular keys.

Left Side: On the left side of the device, you can find the socket for an optional power supply (not included).

Right Side: On the right side of the device, there are two outlets. The one farther away is a service outlet for our technicians. The one nearer to you is an earphone socket (earphones are also optional and not included).

Bottom Side: On the bottom side of the device, you will find four little rubber feet, the loudspeaker grill and the battery compartment.

3: Power Supply

Batteries: DoubleCheck operates with 2 x 1.5V AAA batteries. The battery compartment is situated on the bottom side of the device. To insert the batteries, turn over the device with the display end still furthest away from you. Right between the two upper rubber feet, you can feel a little notch. This is where you can open the battery compartment. Please note, that the lid is **not** completely removable! Put two 1.5V AAA batteries in the compartment with the flat (negative) end of each battery contacting the coil. Close the lid until it locks in place.

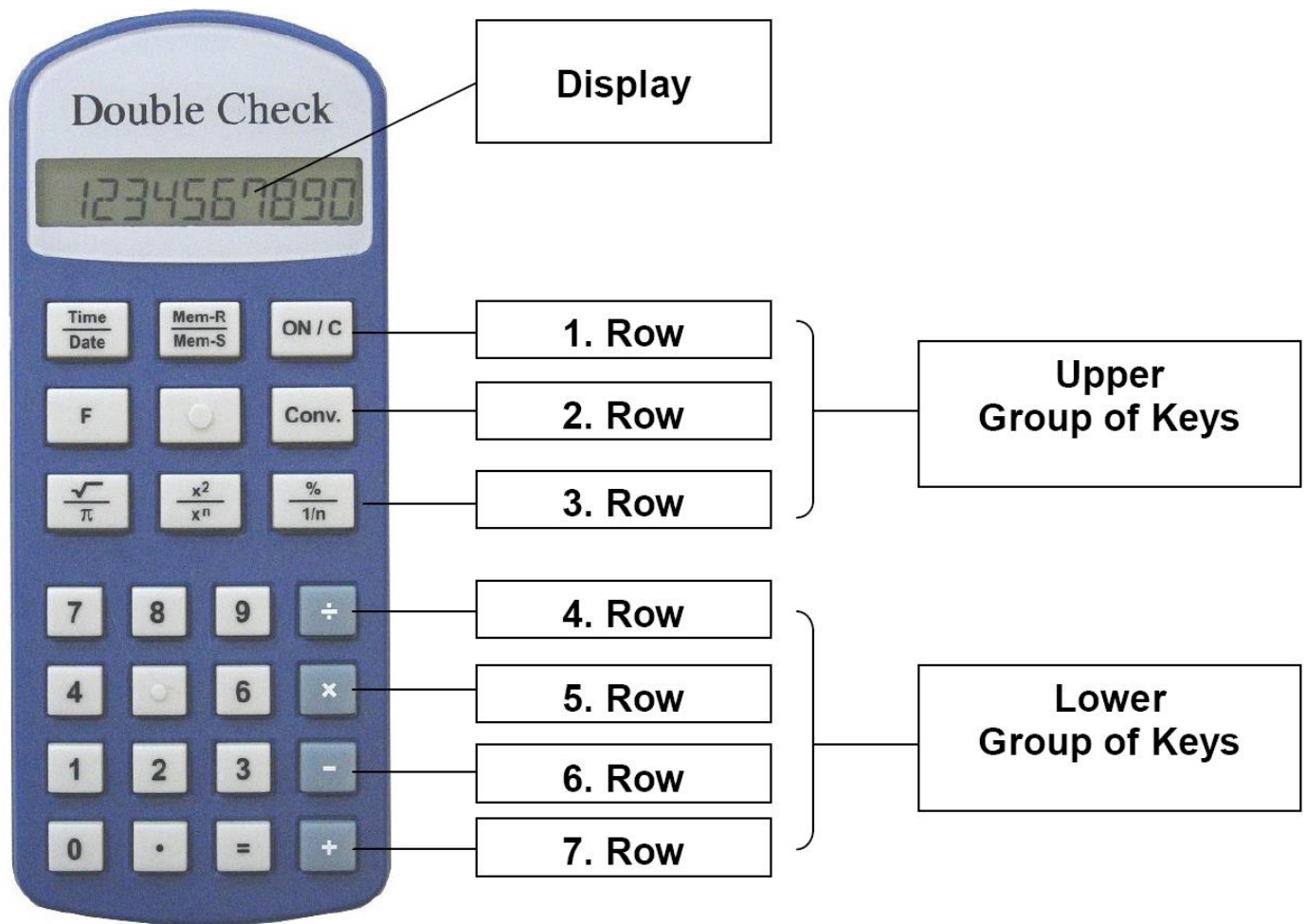
Power Supply: DoubleCheck can also be operated with a power supply unit. The power supply unit is **not** included in the delivery and has to be ordered separately! The socket for the power supply unit is located on the left side of the device



CAUTION: Replace the batteries as soon as the device announces „battery weak“.

4: Keyboard Layout

The keyboard is subdivided into 2 groups: the lower group consists of 4 rows, each including 4 small, square keys. The upper group consists of 3 rows, each including 3 bigger, rectangular keys. Each key of the upper group operates two functions. In the following, we will describe each row top down.



4.1: Upper Group (from left to right)

1. Row	short = time long = date	short = recall memory long = save value	short = switch on / delete all long = delete last digit
2. Row	long = formula	short = repeat long = menu	short = adjusted conversion long = select conversion
3. Row	short = square root long = Pi	short = squared long = to the power of	short = percent long = reciprocal value

4.2: Lower Group (from left to right)

4. Row	digit 7	digit 8	digit 9	divided by
5. Row	digit 4	digit 5	digit 6	times
6. Row	digit 1	digit 2	digit 3	minus
7. Row	digit 0	Decimal point	equals	plus

4.3: Switch the device on and off

To switch the device on, quickly press the ON-key (1st row, right key).

DoubleCheck will switch off automatically after a certain time without keystroke. To switch it off manually, press and hold all three keys of the 1st row until you hear a short jingle.

4.4: Escape Function

To escape the menu, quickly press the ON-key (1st row, right key).

4.5: Delete last Digit / delete all

If you typed in a number incorrectly, you can always delete either the last digit or the whole number. To delete the last digit only quickly press the ON-key (1st row, right key). To delete the whole number, press and hold the ON-key.

4.6: Keylock

To activate or inactivate the keylock function, keep the 0-key and the plus-key pressed until you hear a short confirmation (7th row, extreme left and right keys).

4.7: Volume Control

There are 6 volume levels to choose from. To increase the volume, shortly press the menu key (2. row, middle key) and the right key of the 2nd row. To decrease the volume, press both, the menu key and the left key of the 2nd row. Doublecheck will announce the volume.



CAUTION: The volume level can also be set to 0. Doublecheck will then give no announcements. This setting can be reseted by cutting of power supply (e.g. exchange batteries).

4.8: Time and Date

Doublecheck also offers a built-in clock. To hear the time, quickly press the TIME/DATE key (1st row, left key). It works even if the Doublecheck is turned off. To hear the date, press and hold the TIME/DATE key.

4.9: Memory Function

4.9.1: Save Values

In order to save numbers in memory, choose the function „save value“ (press and hold the button in the middle of the first row) and select a memory cell from number keys 1 to 9. This way the value is stored in the appropriate location (there are up to 9 different memory locations).

4.9.2: Select stored Values

Use the function “recall memory” (short press on middle button of the first row) and then press the corresponding number key to select the value from a memory location (1 to 9).

4.9.3: Delete stored Values

In order to delete a stored value, you need to type in “0” and save this value (see 4.9.1). To write any new value in memory, just save the value to the appropriate memory location.



By cutting of power supply (e.g. exchange batteries) all memory locations will be reseted to 0.

4.10: Repeat Function

By pressing the menu key shortly (middle key in the second row) the entire entry can be announced, even before the operation is finished.

5: Arithmetic Procedures

DoubleCheck offers all standard arithmetic functions, as well as the possibility to calculate percentages, extract square roots or square a given number.

5.1: Standard Arithmetic Functions

The standard arithmetic functions include: to add, to sub duct, to multiply and to divide. To conduct one of those standard functions, just type in the number followed by the function (rows 4 to 7 the right keys) and the second number. To finish the arithmetic procedure, press the equal-key (7. row, second key from the right). Every key you enter, as well as the result of the calculation are announced in a clear voice.

To repeat the result of the calculation, press the equal-key once again. If you accidentally type in a wrong number, just press and hold the ON-key (1. row, right key) to delete the last value. This is the way you can delete a whole operation step by step backwards.

5.2: Advanced Arithmetic Functions

DoubleCheck also offers the possibility to calculate percentages, extract square roots or square a given number.

5.2.1: Percentages

When calculating percentages the following approaches are most common:

Calculation	Example	Input
Percent	How much is 5% of 250	250 x 5 %
Percentage	250 is 5% of how much	250 / 5 %
Surcharges	How much is 250 plus a surcharge of 5%	250 + 5 %
Rebate	How much is 250 minus a rebate of 5 %	250 – 5 %

To calculate for example, how much are 5 % of 250, type in 250, shortly press the multiplication key (5. row, right key) followed by the digit 5. Finish the process by shortly pressing the percent-key (3. row, right key). DoubleCheck will then announce the result.

5.2.2: Square a given number

To square a given number, type in the value and shortly press the square-key (3. row, middle key) followed by the equals key.

5.2.3: Extract a Square Root

To extract a square root, type in the number and shortly press the square root key (3. row, left key) followed by the equals key.

5.2.4: Reciprocal Value

To calculate the reciprocal value, type in a number and press and hold the percent-key (3. row, right key) followed by the equals key.

5.2.5: To the Power of

Type in a number, press and hold the square-key (3. row, middle key) until you hear “to the power of”. Now type in the number needed (only integers) and finish the calculation by shortly pressing the equal-key (7. row, second key from the right). DoubleCheck will then announce the result.

5.2.6: Π (PI)

To calculate with the number PI, press and hold the square root key (3. row, left key).

5.3: Conversions

Due to the default conversion settings, the conversion function enables you to quickly calculate e.g. how much miles 10 kilometers are.

Press and hold the conversion key (2. row, right key) and you will hear the announcement "custom conversion". By shortly pressing the conversion key again, you can now select the measurement unit you would like to work with. You can choose between the following units: currency (from US Dollar to Euro), temperature (from °C to °F), volume (from litre to gallon), length (from kilometres to miles), weight (from kilogram to pound) and customized conversion (for your very own conversion rate).

To choose for example „temperature“, shortly press the menu-key (2. row, middle key) and DoubleCheck will once again announce the conversion rate. You can now type in the number you like to convert, e. g. 30. To convert this number into degree Fahrenheit, press both the point-key and the equal-key (7. row, the two middle keys) and DoubleCheck will announce "degrees Celsius equals 86 degrees Fahrenheit". To re-convert this result to degree Celsius, press both the equal-key and the plus-key (7. row, the two right hand keys).

5.3.1: Currency Conversion

The default setting of the DoubleCheck provides the conversion from Euro to US Dollar and vice versa. If you like to convert other currencies, you can easily adapt the exchange rate. To do so, choose the function "currency" and press and hold the menu-key (2. row, middle key). Type in the exchange rate you need and confirm by shortly pressing the menu-key again. DoubleCheck will now use this new exchange rate when converting currencies.

5.3.2: Custom Conversion

If the default settings do not offer the conversion you are looking for, you can set your individual conversion rate by choosing the function „custom conversion“. After choosing the function, press and hold the menu-key (2. row, middle key) and type in the conversion rate you need. Confirm by shortly pressing the middle key. You can now calculate with your individual conversion rate.

5.4: Formula

As a commercial calculator DoubleCheck also offers formulas to calculate compound interest, net present value or annuities. To activate the formulas, press and hold the formula-key (2. row, left key) and select the formula by shortly pressing the right or left key of the same row. Confirm your selection by pressing and holding the menu-key (2. row, middle key).

5.4.1: Compound Interest

This formula helps you to calculate an end capital on the basis of a certain initial capital and a given duration and percentage.

Example: You have a certain amount of money (initial capital) on your savings account. You know, that your bank offers you a certain interest rate (percent) and you decide to keep this amount of money on your account for e.g. 5 years (duration). After typing in all this information, DoubleCheck will announce how much money you will have on your savings account after those 5 years including the interest given by your bank.

After selecting the formula, DoubleCheck asks you to type in the initial capital. Do so and confirm by shortly pressing the menu-key (2. row, middle key). DoubleCheck repeats the value and asks you to type in the percentage. Do so and confirm by shortly pressing the menu-key again. DoubleCheck will repeat the percent and ask you to type in the duration. Do so and once again confirm by shortly pressing the menu-key. DoubleCheck will then announce the end capital.

5.4.2: Net Present Value

This formula helps you to calculate the initial capital on the basis of a certain end capital you wish to have in the near future (including the interest).

Example: You know, you need a certain amount of money in the near future (end capital) and you know that your bank offers you a certain interest rate (percent). You decide you can keep money on your savings account for e.g. 5 years (duration). After typing in all this information, DoubleCheck will calculate the net present value, that is the amount of money, you have to invest in order to reach said end capital.

After selecting the formula, DoubleCheck asks you to type in the end capital you wish to reach. Do so and confirm by shortly pressing the menu-key (2. row, middle key). DoubleCheck repeats the value and asks you to type in the percentage. Do so and confirm by shortly pressing the menu-key again. DoubleCheck will repeat the percent and ask you to type in the duration. Do so and once again confirm by shortly pressing the menu-key. DoubleCheck will then announce the net present value.

5.4.3: Annuity

The term annuity is used in finance theory to refer to any terminating stream of regular payments over a specified period of time.

Example: You obtain a credit from your bank (initial capital). You pay a certain percentage of interest for this credit (percent) and you also know that the credit is due within the following 20 years, that is 240 months (duration).

After typing in all this information, DoubleCheck will calculate the monthly instalments you have to pay in order to repay the credit.

After selecting the formula, DoubleCheck asks you to type in the initial capital. Do so and confirm by shortly pressing the menu-key (2. row, middle key). DoubleCheck repeats the value and asks you to type in the percentage. Do so and confirm by shortly pressing the menu-key again. DoubleCheck will repeat the percent and ask you to type in the duration. Do so and once again confirm by shortly pressing the menu-key. DoubleCheck will then announce the regular payment due.

5.4.4: Annuity Initial Capital

This formula offers you the vice versa calculation, that means, you can find out which credit amount you could afford.

Example: You know how much money you could afford each month to pay instalments (annuity). You know the conditions of your bank, that is the interest rate (percent) as well as the time (duration). After typing in all this information, DoubleCheck will calculate the credit you could afford to pay back with the amount monthly available.

After selecting the formula, DoubleCheck asks you to type in the annuity. Do so and confirm by shortly pressing the menu-key (2. row, middle key). DoubleCheck repeats the value and asks you to type in the percentage. Do so and confirm by shortly pressing the menu-key again. DoubleCheck will repeat the percent and ask you to type in the duration. Do so and once again confirm by shortly pressing the menu-key. DoubleCheck will then announce the initial capital possible.

6: Help Mode

Pressing the keys F and Conv at the same time leads you into the Help mode. Here you are given a short note about the function of the key you are pressing. By Pressing F and Conv again you may leave the help mode.

7: Menu

Here you can set date, time and an alarm, as well as the number announcement format or the decimal places. To enter the menu, press and hold the menu-key (2. row, middle key) until you hear the announcement "dezimal place". You can now browse through the menu by shortly pressing the right or left key of the same row. To choose one of the menu functions, press and hold the menu-key again.

7.1: Number Announcement Format

This setting enables you to decide whether DoubleCheck should announce the result as an entire number (e.g. “Threehundredfive”) or in individual units (e.g. “Three” – “Zero” – “Five”). Press and hold the menu-key to select the menu function. Choose the announcement format – “entire number” or “individual units” – and confirm by shortly pressing the menu-key again.

7.2: Alarm

DoubleCheck offers one alarm and up to 10 different jingles. To set the alarm, select the menu function as described above. Realize the necessary settings (hour, minutes and jingle) by shortly pressing the left or right key of the 2nd row and confirm each setting by shortly pressing the menu-key again.

7.3: Time

To set the correct time, select the menu function as described above. Realize the necessary settings (hour and minutes) by shortly pressing the left or right key of the 2nd row and confirm each setting by shortly pressing the menu-key again.

7.4: Date

To set the correct date, select the menu function as described above. Realize the necessary settings (year, month, day) by shortly pressing the left or right key of the 2nd row and confirm each setting by shortly pressing the menu-key again.

7.5: Rounding

DoubleCheck offers you the possibility to round a number up or down. This could be quite handy, if you are working with high values (e.g. in the millions), as DoubleCheck will then automatically round the value and not announce the entire numbers to the last digit, which could be confusing.

The default setting is always the highest possible (= 10). To change this value, select the menu function as described above and set the preferred number by shortly pressing the left or right key of the 2nd row (the higher the number, the more detailed the announcement). Confirm the setting by shortly pressing the menu-key again.

7.6: Decimal Places

DoubleCheck offers the possibility to set the decimal places. That means the user can decide, how many units should be announced after the comma. The default setting is always the highest possible (= 9 units after the comma). To change this value, select the menu function as described above and set the preferred number by shortly pressing the left or right key of the 2nd row (the

higher the number, the more units after the comma). Confirm the setting by shortly pressing the menu-key again.

8: Safety Instructions

Do not expose the device to extreme humidity, heat, cold, dust or dirt.


When exposed to splash water, wipe the device off. If water enters the device, remove the batteries and make sure the device is dry.

When not using the device for a longer period, remove the batteries, so they can not damage the device by leaking.

Make sure the batteries are inserted in the correct way.

9: Cleaning the Device

To clean the device, use a lightly moistened cloth only!

	CAUTION: No liquid should enter the device! Avoid strong acid or scrubbing cleansers. Do not scrub the surface with rough sponges, as they could damage the case of the device.
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10: Technical Data

Dimensions:	Length: 150 mm (5.91 inches) Width: 60 mm (2.36 inches) Height: 12 to 20 mm (0.47 to 0.78 inches)
Weight:	130 g (0.29 pounds) including batteries
Power Supply:	2 x 1.5 V AAA micro batteries optional: power supply (not included in delivery!)
Included in Delivery:	DoubleCheck – talking calculator 2 x 1.5V AAA Micro batteries printed user's manual optional: power supply unit
Warranty:	2 years

11: Guarantee and Service

From date of purchase, we issue the following term of guarantee:

twenty four (24) months on the device itself,

twelve (12) months on accessories (e.g. power supply units, earphones etc.),

six (6) months on wearing parts (e.g. rechargeable batteries, hand cuffs, battery lids etc.),

no guarantee on external data mediums (e.g. CDs, memory cards etc.) and batteries.

Under this guarantee, CareTec shall repair a unit that is found to be defective, free of charge, or, at its option, replace it by a reconditioned one. In no event shall Caretec be liable for indirect, special or consequential damages.

The exposure of the device to liquids, strong electromagnetic fields, moisture, and heat, as well as a dropping of the device, or an opening of the case itself, causes a loss of guarantee.

In case of problems please contact Caretec or your local distributor before returning the device without any apparent reason. We will then inform you about the necessary procedures. The device may only be opened by authorized technicians!

Caretec reserves the right to make changes and improvements to its products without further notice.

12: Disposal

12.1: Disposal of Electronic Devices



This product must be disposed of separately from household waste at specially designated collection and recycling points.

12.2: Battery Disposal



Please dispose used batteries only at specially designated collection points, never through regular house garbage!

Pb-Cd-Hg This sign can be found on batteries containing pollutant substances such as: Pb = lead, Cd = Cadmium, Hg = mercury

13: Symbols used



Caution.



Additional information.



Must be disposed off separately from household waste.



Manufactured by.

14: Manufacturer



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