



MultiWatch2.0 Instruction Manual

Getting Started:

Congratulations on purchasing the second version of the most awesome watch in existence! In the box you will find this manual, a black rubber 24mm watch band, one CR2032 coin cell battery, a shiny new aluminum case, the circuit board with battery connector, and a pair of acrylic tops (one is a spare, just in case). Pop the watch band in to place, make sure they are both facing up. Insert the CR2032 coin cell battery (provided, also available at most local pharmacies) into the battery holder. The display on the front will immediately count from “0-9” and “A-F” and then turn off. If it does not display this pattern immediately, remove the battery wait about 10 seconds and reinsert it. Carefully place the circuit board right side up back into the case so the square button on the circuit board is closest to the long side of the band (unless you want to wear the band upside down). At this point it is best to set the time, see the “Setting the Time” section below.

To set the acrylic top in place, remove the protective sheet from both sides and set in to place. It is best to use a rubber mallet to fully set it, most jewelers will also be able to set the acrylic correctly. In order to remove the acrylic top, take a thin flathead screwdriver and CAREFULLY pry up the acrylic. Start at one of the four indents and pry up a little bit of each side until the whole acrylic piece comes free. You can also take it to a local jeweler and have them remove it for you.

Tip for replacing the battery: If the display is not on when you remove the battery, and you do not press the button to turn it on, the watch will keep the time for about 7 seconds while the battery is not present, move quickly.



Setting the Time:

This is most easily done with the top Acrylic cover removed. Press and hold the push button near the bottom of the circuit board until the right two digits of the display start to flash. The watch will be set to 24hr mode, in the Decimal number base (to make things easier).

Pressing the button will increment the minutes by 1. When you are happy with the time, press and hold the push button again, the left two digits will begin to flash. Press the push button to increment the hours by 1, remember, this is in 24hr mode (0-23). When satisfied, press and hold the push button again, only the right two digits will be on and they will be blinking.

This option is to change the display to 12hr or 24hr mode, pressing the button will switch between the two.

When ready, press and hold the push button one last time until the display turns off. The time is now set.

Displaying the Time:

To enable the display, simply give the face of the watch a firm tap with your hand, table, wall, or any other firm object (just don't hurt yourself or others).

The display will turn on for about five seconds before turning off again. If the button is pressed again while the display is still active, it will switch the current number base. The bases rotate in order: Binary, Octal, Decimal, Hexadecimal, and back around. Once the display turns off, the watch will remain in the same number base until it is changed via the method above.

But, What Does it All Mean:

Below you will find a quick tutorial on understanding the four different number bases, if you are still having some trouble it is recommended to do some searching on the Internet.

Decimal:

This is the standard numbering system we use in everyday life, 0-9. The numbers on the display will look like the following:



Octal:

This number base is very close to Decimal, however, instead of counting from 0-9 and then adding one to the tens place, it counts from 0-7 and then adds one to the tens place. As an example, below is a quick arithmetic way to convert 17 decimal into octal:

$$17 - 8 = 9 \text{ ones remain} + 1 \text{ tens}$$

$$9 - 8 = 1 \text{ ones remain} + 2 \text{ tens}$$

17 decimal is equal to 21 octal.

There may be easier ways to convert this, each person is different.

Hexadecimal:

This number base uses the number 0-9 and A-F to count ultimately from 0 to 15 (using one digit as opposed to two) then adding 1 to the tens place. The digit displays above, in addition to the ones below, are used to convey the time:



As an example, below is a quick arithmetic way to convert 45 Decimal to Hexadecimal:

$$45 - 16 = 29 \text{ ones remain} + 1 \text{ tens}$$

$$29 - 16 = 13 \text{ ones remain} + 2 \text{ tens}$$

13 Decimal in Hexadecimal is D + 2 tens.

45 Decimal is equal to 2D Hexadecimal.

Binary:

This is most likely the hardest base to get the hang of. Each digit of the display has 4 vertical segments (and three horizontal that are not used in binary), the top row of them spanning all four digits is the hours while the bottom row spanning all four digits is the minutes. The best way to describe binary is that it increments from right to left starting at one and doubling every time. The far right place is worth 1, one left of that is worth 2, one left of that is worth 4, and so on. If a segment is lit, that places worth is added to the total for that line. Let's do a few examples:



The time is 18:49



The time is 7:14



The time is 00:00 (midnight)

If more assistance is needed, please contact your local web browser.

Water:

The MultiWatch is water resistant, but it is not recommended to take it under more than a few feet of water (the shower should be OK). If water does happen to get inside, immediately remove the cover and the circuit board, remove the battery, and dry with a towel. After letting it dry out for a few hours, insert the battery and see if it turns on again. If you are still having issues please contact KBEEmbedded support.

Aging:

The MultiWatch2.0 has an aluminum case and an acrylic top. These are not the hardest of materials, but they are very strong. They will show scratches and nicks as time goes on, this creates a uniqueness in this already unique watch.

Specifications:

- Dimensions: 1.5" x 1.6" x .45"
- Battery: CR2032 Coin Cell, average of a year of battery life
- Hand assembled, and tested.
- Guaranteed to be free from defects
- Most parts are user replaceable
 - 2mm Acrylic top
 - 24mm Watch lug size

Personal Property Damage Disclaimer: The MultiWatch2.0 is designed to be activated by applying force to the watch; exercise caution when wearing the watch to prevent any personal or property damages when activating the watch display. KBEEmbedded is not responsible for any damages caused by carelessness, neglect or mis-use of the product.

Warranty Information:

KBEEmbedded guarantees its products for life to be free from defects involving normal usage. If at any time you need assistance or information on getting a repair, please contact Support@KBEEmbedded.com.