

MICRO IV CTT4

USER GUIDE ▸

EN

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CTT4

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DESCRIPTION

The kit composed by the **CTT 4** (MICRO Tactical Transmitter 4) and the collar **MICRO IV** is a bidirectional system used to train your dog and receiving information from your dog(s). The information is sent back from your **MICRO IV** to your CTT 4 :

- ▶ Skin contact
- ▶ Battery level
- ▶ Radio Quality of Signal (QoS)
- ▶ Collar temperature

The **MICRO IV** keeps all features of the Micro B. The Micro IV is waterproof and rechargeable via charging cradle.

The kit uses the highest technologies in the electronic collar industry and most of them are patented by Martin System®:

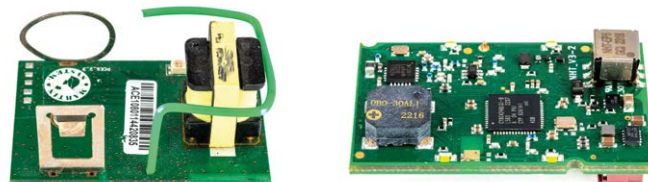
- ▶ The New High Tension Transformer - NHT (patented).
- ▶ The consistent reliable stimulation - S.S.C. («Stimulation à Sensation Constante») (patented).
- ▶ The Contact Measurement System - CMS (patented).
- ▶ The best quality contact points (made of marine grade stainless steel) that reduce the risk of chemical necrosis.

NHT Patent

The Martin System® patented NHT Transformer is about 1/8th the size of a standard transformer, with the same capacity of stimulation and is a consistent reliable stimulation.

The main benefits of using a NHT Transformer are:

- ▶ The smallest receiver with the longest battery life in standby (without bidirectional connection).
- ▶ A stable stimulation even at high level when the battery is low.



DOGGIFY APP

The CTT 4 with the backlit colored display can give you an easy access to the information's received from the collar and also the configuration of each button (mode and level). The CTT 4 is still compatible with Martin System® devices like:

- ▶ Finger Kick
- ▶ Dogtrophy
- ▶ Micro B
- ▶ Chameleon® IIIB
- ▶ Chameleon® IV
- ▶ Tone Marker

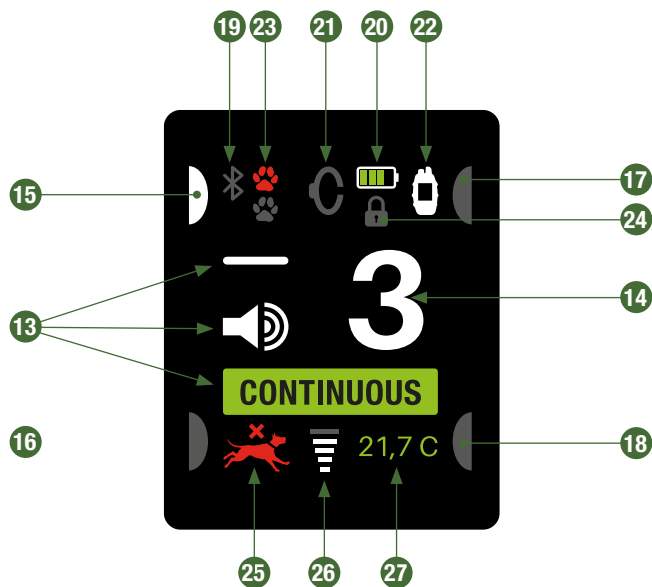
The CTT 4 and the Micro IV are Bluetooth connected and can be customized via our App Doggify. A lot of settings can be customized via the App Doggify, ie:

- ▶ Number of Receiver channel (1 to 2)
- ▶ Failure notification of Receiver data (Tone/Vibration)
- ▶ Clicker
- ▶ Tone Marker
- ▶ Rising/Decreasing settings
- ▶ Stimulation Feedback

CTT 4 REMOTE

- | | |
|--------------------------|----------------------------------|
| ❶ Stimulation button 1A | ❷ Display (colored and backlite) |
| ❸ Stimulation button 1B | ❸ Magnet (ON/OFF/pair a collar) |
| ❹ Stimulation button 2A | ❹ Program button |
| ❺ Stimulation button 2B | ❺ Lanyard attachment |
| ❻ Short external antenna | ❻ USB charging port |
| ❼ Rotary knob (level) | ❼ Wireless charging area |










- 13 Program Mode
- 14 Stimulation Level
- 15 Button 1A Enabled
- 16 Button 1B Disabled
- 17 Button 2A Disabled
- 18 Button 2B Disabled
- 19 Bluetooth

- 20 Battery Level of :
 - a) Collar 1 if 21 is visible.
 - b) Collar 2 if 22 is visible.
 - c) CTT4 if 22 is visible.
- 23 Collar status, collar 1: upper paw - collar 2: lower paw:
 - a) paw collar not available
(CTT4 is by factory setting in 1 dog mode).
 - b) paw collar available, but no collar already connected
(when Bluetooth is in 2 channel setting).
 - c) paw collar connected and all information's OK.
 - d) paw collar connected and at least one data of the collar is not OK.
- 24 If visible, the rotation knob button is locked
(not possible to change the level by turning the rotation knob).

25 26 27 are related to the collar connected to the active button

- 25 Skin contact data:
 - a) OK:
 - b) Not OK:
 - c) Unavailable:

26 Bidirectionnal Radio Quality Of Signal:

- a) OK 
- b) Middle 
- c) Weak:   (red)
- d) Unavailable:  (red)

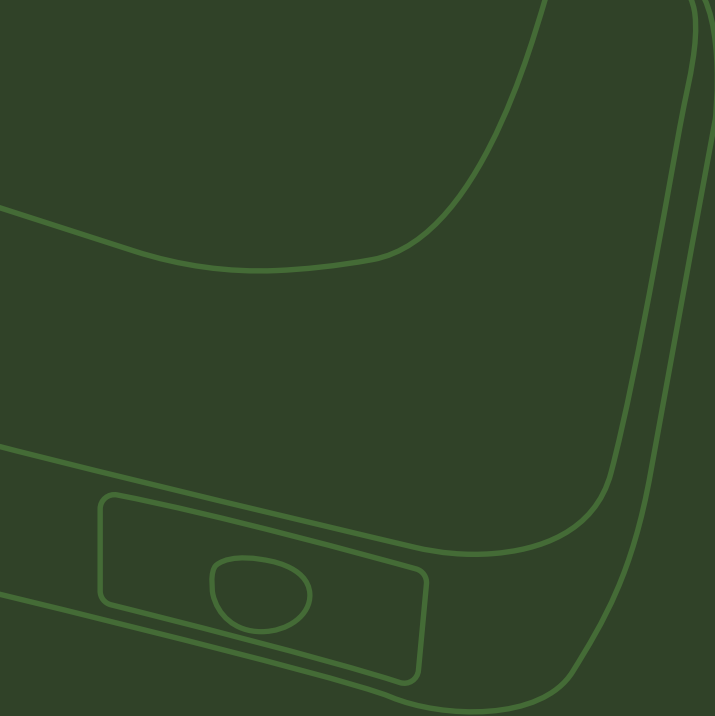
27 Temperature value:

- a) If in Green: in valid defined range.
- b) If in Red: Out of defined range (lower or higher).
- c) If --- C or --- F: Unavailable.



MICRO IV®





FINGER KICK

FINGER KICK



1 LED indication

2 Button

3 Strap



SWITCH THE TRANSMITTER ON/OFF

To turn the CTT 4 ON, briefly press and release any key **1**, **2**, **3**, **4** or **9**. To switch OFF the transmitter, turn the rotary knob **6** counterclockwise below level zero. The remote control turns OFF automatically after 3.5 hours without any activity. During the power down process, the CTT4 will try to switch OFF any known and paired collar to sleep mode. During power up process, the CTT4 will try to switch ON any known and paired collar from Sleep to standby mode (wake up the collar) See p.17.

SWITCH THE COLLAR ON/OFF

To Turn ON or OFF the collar, slide a magnet (external or the **8** of the CTT4) on the ON/OFF/PAIRING point **3** of the collar. During the Switch ON:

- ▲ Ascending tone is emitted.
- ▲ The collar starts the skin contact measurement.
(clockwise turning LEDs)
- ▲ The LEDs tell you the status of the skin contact measurement (see p.21)

If the collar is in Sleep mode (see below), slide the magnet to start the switch ON process.

WARNING

If the tone doesn't start with or after the first flashing of LEDs, the battery is empty or very low and you must recharge it.

During the switch OFF:

- Descending tone is emitted.
- The LED stops Flashing

COLLAR SLEEP MODE AND WAKE-UP

NEW : When the collar is connected and used by a CTT 4, it is possible to place the collar in a Sleep mode. The advantage of the sleep mode is that the collar will drain less battery than the Standby mode of the collar. To enable the Sleep mode, the collar must be ON, connected to the CTT 4:

- ▲ The collar must be in bidirectional radio range of the CTT 4
- ▲ Turn OFF the CTT 4 (dial under 0)
- ▲ During the switch OFF process of the CTT 4, the remote will try to put the collar in SLEEP mode.
- ▲ The collar will go In SLEEP mode.

To wake-up the collar, switch ON the CTT4:

- ▲ The collar will WAKE UP in few seconds.
- ▲ The collar will start immediately a Skin contact measure.
- ▲ The LEDs tell you the status of the skin contact measurement (see p.21)

WARNING

Due to the specific state of the collar, WAKE UP range is smaller than the switch OFF bidirectional radio range

PAIRING THE MICRO IV TO THE CTT 4

NOTE 1:

The CTT 4 can control up to two Receivers.

The number of different communication channels of the CTT 4 is represented by the paws **23** displayed. If the second paw is Grey, the CTT 4 is set for one channel. Changing to a 2 dogs transmitter can be done with the free Doggify App.

*CTT4 is always delivered as a 1 channel transmitter (for one dog where every stimulation button can be used).

NOTE 2:

The MICRO IV can be paired to up to 4 different

transmitters (K9, PT3000), but to only 1 CTT 4.

A possible configuration is a MICRO IV paired to:

- ▲ 1 CTT4
- ▲ 2 K9
- ▲ 1 PT3000

Of course, the bidirectional capacity will only work with the CTT 4.

If you try to pair more than 4 transmitters, the last previously added transmitter will disappear.

To pair the MICRO IV to a remote (and a CTT 4):

- ▲ Hold the magnet (external or CTT 4 **8**) on the START/ STOP /PAIRING **3** of the collar.
- ▲ Wait until the collar's LEDs **7** flashes quickly and **TOGETHER.**



- ▶ Move the magnet away.
- ▶ Within 10 seconds, press the stimulation button of the transmitter (or on the connected Finger Kick)
- ▶ Press the button again to make sure the pairing is done correctly.
- ▶ The collar must react as the remote is set

BIDIRECTIONALITY / NEW

When the MICRO IV and the CTT 4 are correctly paired, the two devices switched ON and in radio range, the bidirectional communication will start automatically.

In a periodic timing, T seconds, information's are exchanged between the collar and the remote. The basic setting is to measure every 8 seconds.

The collar information's are:

- ▶ Skin contact status **25**
- ▶ Battery Level **20 21 22**
- ▶ Collar temperature **27**
- ▶ Radio Quality of Signal **26**

*When there is no bidirectional radio there will be the possibility to have radio signal from transmitter to collar (but here there is no collar feedback.)

The periodic timing, T, can be modified with a free Doggify App.

If T decrease, the information's will arrive quickly, but the battery draw will increase (for both transmitter and collar). If T increase, the exchange of information will be less reactive, but will save the battery of the collar.

By default, $T = 8$ seconds.

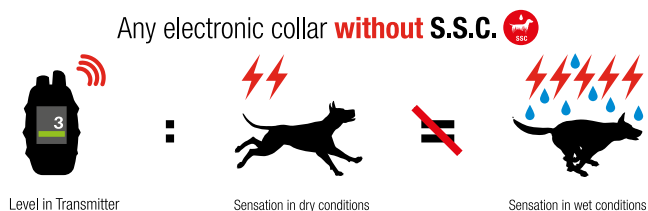
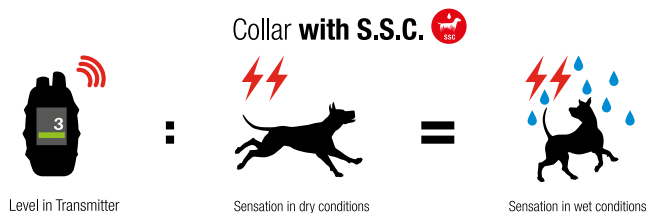
If no information is received within 10 seconds, the unavailable status will be displayed for each data. (red paw and red antenna)

SSC & SKIN CONTACT MEASUREMENT

The MICRO IV is equipped with the patented S.S.C stimulation:

- ▶ Measure at stimulation the dog's skin condition.
- ▶ Instantly adapt the stimulation energy to keep a constant and reliable sensation felt by the dog.

This technology avoids the risk of accidental overstimulation due to constantly changing environmental factors. With the help of this technology, the Martin System® product and especially the MICRO IV can make Skin contact measurement with immediate feedback on transmitter (not in the water or in the first moment when the dog comes out of the water).



There are three ways to check the quality of the skin contact with the MICRO IV:

1/ With the LEDs of the collar:

- When bad contact is detected, the LEDs flash quickly and alternatively (in clockwise direction).
- When good contact is detected, two opposite LEDs blink every three seconds.
- Occur every time the skin contact is enabled
- Skin contact measurement is enabled at start-up of the collar during max. 2 minutes or stop after the first stimulation when linked with a PT3000 or a K9

2/ With the CTT 4

The picto (23) and (25) give indication of the last skin contact measurement received in bidirectionality. The reception of the data is done periodically, every 8 seconds by default. Can be adjust by Doggify.

- In this scenario, the contact measurement is restarted for 10 seconds on the collar every time the data is asked by the CTT 4.

3/ With a free Doggify App

When the collar is connected to Doggify, if Doggify doesn't receive any skin contact data for 10 seconds, it restarts the measurement for 30 seconds.

2/ Sensitive dog

Exceptionnaly, a very sensitive dog can feel the skin contact measurement.

For that reason, enable “Sensitive dog” parameter in Doggify
Unfortunately, with this parameter enabled, if the dog has a thick and/or dry skin, the contact measurement can not be detected.

STIMULATION LEVEL

The stimulation level **14** shown on the display of the CTT 4 is corresponding to the active stimulation button (white picto **15**, **16**, **17** or **18**)

Each button can be programmed individually.

To modify the level:

- ▶ Select the desired stimulation button by either a short and consecutive press on the program button **9** or by directly pressing the desired stimulation button **1**, **2**, **3** or **4**.
- ▶ The corresponding picto will be enabled ((white picto **15**, **16**, **17** or **18**)
- ▶ Turn the rotary knob **6** to select a stimulation level (from 0* to 18)










*Level 0 is always a clicker unless “Clicker on level 0” is disabled in Doggify. Alternatively, the program can be tuned via our Doggify App.

TO LOCK/UNLOCK ALL STIMULATION LEVEL / NEW

- ▶ Keep pressing the program button **9**
- ▶ Turn the rotary knob for at least 5 “clicks”.
- ▶ The Lock picto **24** is displayed, the levels are locked. (display of “lock” is above the Level display)

To unlock, follow the locking procedure, the Lock picto will disappear.
+If the transmitter is locked, you must unlock it to switch off the transmitter normally.

OPERATING MODE (Available Operating Mode **13**) :

	Continuous Stimulation
	Continuous Stimulation with tone
	Flash Stimulation (short stimulation)
	Flash Stimulation with tone (short stimulation)
	Rising Stimulation (increasing stimulation from a defined level until the button is released)
	Rising Stimulation with tone (increasing stimulation from a defined level until the button is released)
	Decreasing Stimulation (decreasing stimulation from a defined level until the button is released)
	Decreasing Stimulation with tone (decreasing stimulation from a defined level until the button is released)
	Warning tone (audible signal + vibration only if the button is pressed briefly, and stimulation if pressed for more than 1 second)

By factory setting, tone is always delivered together with vibration, this can be changed with the free DOGGIFY App

The operating mode **13** shown on the display of the CTT 4 is corresponding to the active stimulation button (white picto **15**, **16**, **17** or **18**).

Each button can be programmed individually, to modify the operating mode:

- ▶ Select the desired button by either a short and consecutive press on the program button **9** or by directly pressing the desired stimulation button **1**, **2**, **3** or **4**. By pressing the desired stimulation button, you are stimulating the collar.
- ▶ The corresponding picto will be enabled (white picto **15**, **16**, **17** or **18**).
- ▶ Keep the program button **9** pressed, all operating mode will be shown in sequence.
- ▶ Release the program button **9** at the operating mode of your choice.

Alternatively, all operating modes can be tuned via our Doggify App.

UNPAIR A MICRO IV AND THE CTT 4

Due to the bidirectionality, to unpair a MICRO IV and a CTT 4 it needs to be done in following order.

1/ Unpair the MICRO IV

1. Position and hold the magnet (standalone or in the transmitter) next to the ON/OFF/Pairing point **3** of the receiver.
2. Wait until the LEDs blink quickly and simultaneously.
3. Move the magnet at least 1 meter away for about 3 seconds.
4. Slide again the magnet (standalone or in the transmitter) next to the ON/OFF/Pairing point **3** of the receiver
 - ▶ The LEDs stop flashing quickly and simultaneously.
 - ▶ The pairing is erased for all paired transmitters.

2/ Unpair the CTT 4

1. Push and hold the program button **9** and one of the corresponding stimulation buttons of your collar **1**, **2**, **3** or **4**.
2. A flashing Finger Kick icon should appear on the screen.
3. Release all buttons for 2 seconds.
4. Press again the program button **9**.
5. The screen must come back to the normal mode and corresponding paw **23** of your collar must be white.

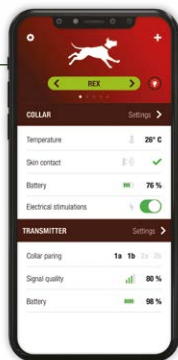
If the id of the collar is not cleaned first, a press on the stimulation button will link again the MICRO IV to the CTT 4.

HOW TO PAIR/USE A FINGER KICK

1. Push and hold the program button **9** and one of the corresponding stimulation button of your collar **1**, **2**, **3** or **4** together until a flashing Finger Kick icon appears on the screen.
 2. Release all buttons
 3. Press the button of your Finger Kick
 4. The screen must come back to the normal mode.
 5. Press again the Finger Kick button to confirm the pairing (Level of the CTT 4 must blink).
 6. Repeat if this was not successful.
- To use the Finger Kick, press the Finger Kick button instead of the CTT 4 paired button.

INSTALLING DOGGIFY

Search and install the application DOGGIFY on your smartphone. Or scan the QR code:



HOW TO PAIR THE CTT 4 TO DOGGIFY

- ▶ Follow the instruction in Doggify
- ▶ During the pairing process, you will need to enter a pairing ID in your phone. This ID will be displayed on the screen of your CTT 4.

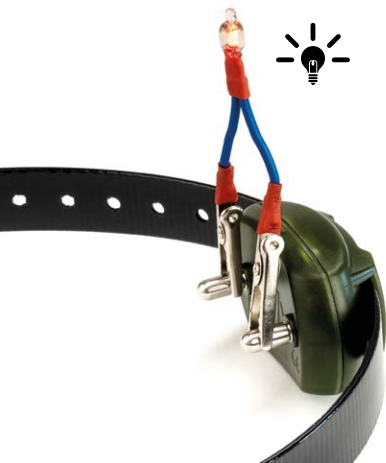
HOW TO PAIR THE MICRO IV TO DOGGIFY

1. Follow the instruction in Doggify
 - ▶ The device connects to your collar receiver.
2. Accept the pairing.
 - ▶ The LEDs of the MICRO IV will flash quickly to confirm the pairing.
3. In the next 30 seconds and to ensure the pairing with the proper MICRO IV, slide again the magnet next to the ON/OFF/pairing point **3** of the receiver.
 - ▶ A green check sign is displayed on the application screen.
 - ▶ The collar receiver is paired with your smartphone.

CHECKING THE STIMULATION

To check the correct operation of the collar receiver, you need the indicator light. (test light)

1. Attach the alligator clips to the contact points.
2. Send one or more stimulations with your remote control.
 - ▶ If the receiver is working correctly, the test light illuminates with each impulse (the higher the level, the brighter the illumination).
 - ▶ If the test light does not light for levels higher than 1, check with Doggify if the stimulation is enabled.
 - ▶ it is normal that the test light will blink very weak at contact measurement



CHARGING THE CTT 4



Wireless Charging

1. Connect the power supply to an appropriate power source.
2. Place the back of the transmitter on the induction charging plate.
3. Check the green battery icon on the transmitter.
 - ▶ The wireless picto is displayed:
 - ▶ Flashing: the battery is charging.
 - ▶ Continuous: the battery is charged.

The device can be hot when charging.



USB Charging

1. Connect the power supply to an appropriate power source.
2. Connect the USB cable in the device.
3. Check the green battery icon on the transmitter.
 - ▶ The USB picto is displayed:
 - ▶ Flashing: the battery is charging.
 - ▶ Continuous: the battery is charged.

NOTE :

We recommend **to charge frequently the unit**; you cannot overcharge.

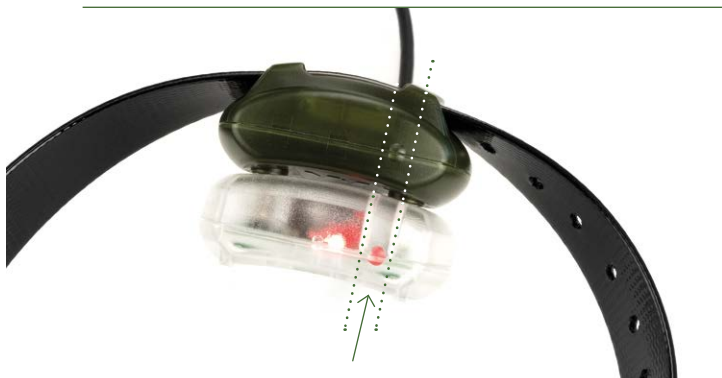
CHARGING THE MICRO IV

1. Connect the power supply to the charger module.
2. Connect the power supply to a power source (mains, 12 V cigarette lighter socket, USB port of a computer...).
- ▶ A LED on the charger module lights continuously.
3. Switch the Micro IV collar receiver OFF.
4. Plug the collar receiver on the charger module aligning the red dot on the collar receiver with the red dot on the charger module..
- ▶ If the receiver is correctly placed, the battery automatically charges.
5. Check the LED on the collar receiver:
 - ▶ Flashing: the battery is charging.
 - ▶ Continuous: the battery is charged.



WARNING

If you hear an ascending tone, the collar receiver is inserted the wrong way in the charging module or the charging module is not powered.



PRECAUTION OF USE

- ▶ We strongly recommend following our **NePoPo®** Silver school before using any training collar (info@nepopo.com).
- ▶ Do not leave the collar around the dog's neck for long periods.
- ▶ The pressure and the friction of the contact points may irritate the skin.
- ▶ Every day, check the dog for roughness, irritated skin or cuts in the area in contact with the contact points.

If this is the case:

- Remove the collar immediately.
- Administer the appropriate care.
- Wait until the dog has healed completely before using a collar.



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- If the skin condition does not improve, consult a veterinarian.
- ▶ Every week, disinfect the dog's neck and the contact points. Use a sponge or a towel soaked with a disinfecting solution.
- ▶ If the dog is in poor health, consult a veterinarian before using a training collar.
- ▶ Regularly check that the contact points are securely attached (finger tight) and locked in place.
- ▶ Never leave the collar receiver close to a transmitter or a magnet that may pair or unpair the collar unexpectedly.

MAINTENANCE

- ▶ Clean the product after each use.
- ▶ Keep the CTT 4 and MICRO IV in a dry place and at room temperature when not in use.
- ▶ For warranty reasons, it is not allowed to open the devices.
- ▶ CTT 4 is waterproof.
- ▶ MICRO IV is waterproof.
- ▶ Finger Kick is waterproof.

TECHNICAL SPECIFICATIONS

	▶ CTT 4 / MICRO IV	▶ Finger Kick
Dimensions (mm)	126 x 64 x 28	27 x 30 x 17
Weight (g)	152,2	6
Power supply	Battery Lipo 3,6V 100mAh	CR1225 V lithium battery
Range	Up to 1000m/yard	Up to 20m/yard
UHF frequency UHF power	869.5 MHz < 500 mW	2.4GHZ < 1mW
Antenna	External	Internal
Nbr stimulation level	18	NA
Operating Temperature	-10°C to 40°C 14°F to 104°F	-10°C to 40°C 14°F to 104°F
Waterproof	Yes	Yes

RECYCLING

Standards applicable to waste electrical and electronic devices state that they must be recycled.
If you are no longer using this material or if it cannot be repaired, do not throw it away in the usual household rubbish. Return it to the vendor or contact Martin System® customer service for further information.



WARRANTY

MARTIN SYSTEM® guarantees its equipment against manufacturing defects for 2 years, covering parts and labor. This warranty covers all faults that occur under normal operating conditions.

Faults arising from accidents and/or improper use are not covered. The warranty does not cover any of the following:

- The replacement of batteries.
- The replacement of the strap.
- The transport risks involved in returning the product to **MARTIN SYSTEM®**.
- The damage to the product as a result of negligence or an error on the part of the user.
- The damage to the product as a result of repairs made by nonauthorized persons.
- The liability for damage caused by the improper use of the product or a breakdown.

In the case of a defect, the device will, at **MARTIN SYSTEM®** discretion, be repaired or exchanged.

To benefit from this warranty, you must send to **MARTIN SYSTEM®**, within ten days, the warranty certificate that accompanies the device. The warranty does not cover devices for which the warranty certificate has not been filled in and returned to **MARTIN SYSTEM®**.

CONFORMITY

DECLARATION OF “CE” CONFORMITY

Declaration of Conformity (DoC) Directive R&TTE 1999/5/CE

MARTIN SYSTEM®

declares that the **MICRO IV and CTT 4** complies with all the terms of the European Directive

N° 1999/5/CE of 07/04/99

And complies with the following standards: SAFETY (art 3.1.a): EN 60950 / EMC (art 3.1.b): EN 300.489-3 V1.4.1 SPECTRUM (art 3.2): EN 300.220-3 V1.1.1

Place and date of this document: Lantin, 15 january 2024

MARTIN SYSTEM®

Rue Joseph Martin, 35 - 4450 LANTIN - BELGIUM

Signed by or for the manufacturer:

Name : Michael Bellon / Position : Director





THE **SCIENCE** OF **DESIGN**



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