CAME-TV

NANO

USER MANUAL

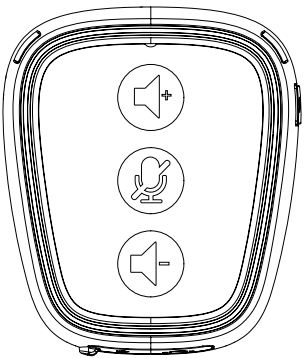
The CAME-NANO is a compact portable intercom device that adopts full duplex technology, allowing multiple parties to have simultaneous conversations. It features a built-in speaker on the fuselage, which can produce sound externally, and it can also be connected to other audio devices using a 3.5mm audio jack. It offers versatile carrying options, such as hanging, clipping, or holding it by hand.

CAME-TV

Suggestions for optimal use

1. When you receive NANO, please charge it before turning it on.
2. Make sure the devices are in off state while charging to prevent battery draining when fully charged.
3. When devices are in close proximity, they may generate noise. To mitigate this, press the middle button to turn off the microphone.
4. The intercom system consists of a master and multiple remotes. The master acts as a signal transfer station for the remotes. So in actual use, the remotes should be distributed around the master to achieve the optimal use effect.
5. The best communication quality is achieved when there are no obstacles between the master and remotes. Obstructions like the human body can impact the effectiveness of the device.So we advise using arm belt.
6. Some frequencies used by mobile phone signal base stations may interfere with the Nano system, causing disruptions when it is in use.
7. The signal antenna of the CAME-NANO is generally located around the lanyard hole area. It is important to not cover this region to ensure quality communication.
8. To maximize audio performance, it is recommended to use official standard headphones. The 3.5mm interface follows the OMTP standard. If you have (US) CTIA standard equipment, an audio cable will be required.

Parameters	
Standard	DECT technology, GAP compatible
Working Distance	1100 ft. radius at Master in the open air
Working Time	Master 8 Hours // Remote 15 Hours
Channel Bandwidth	1.728MHz
Modulation Type	GFSK
Duplex Operation	Time Division Duplex (TDD)
CE Frequency	1881.792-1897.344 MHz
FCC Frequency	1921.536-1928.448 MHz
Type-C Charging	5V, 500mA
Battery Capacity	1100 mAh
Audio Interface	3.5mm TRRS (OMTP)



Product Structure

The Master buttons are in red with the letter “M”,
while the Remote buttons are in white without letters.

MASTER

REMOTE

Power Switch / Working

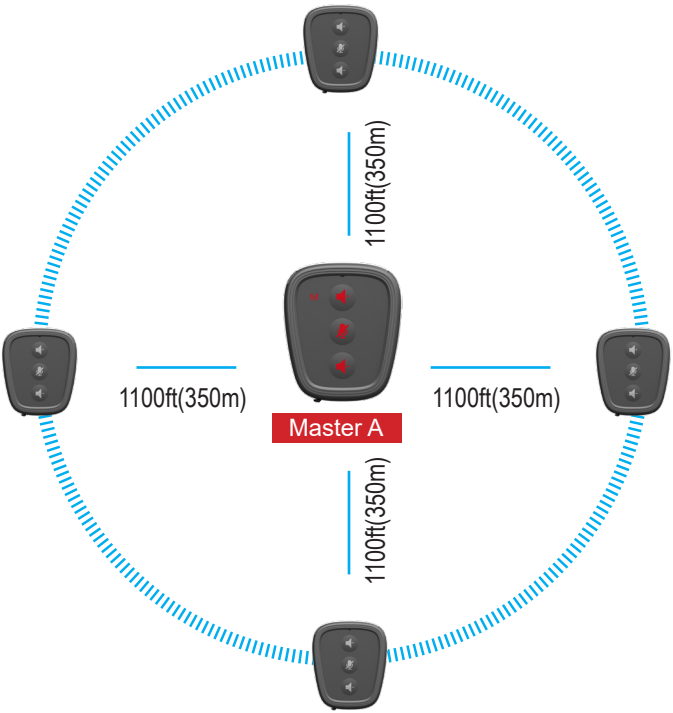
Back Clip

State	LED Indicator
High battery level	Green
Medium battery level	Yellow
Low battery level	Red
Mute on	Flashing
Mute off	Solid
Charging	Flashing in colours
Fully charged	Turn off automatically
Connected / unpaired	Solid
Paired but unconnected	Flashing

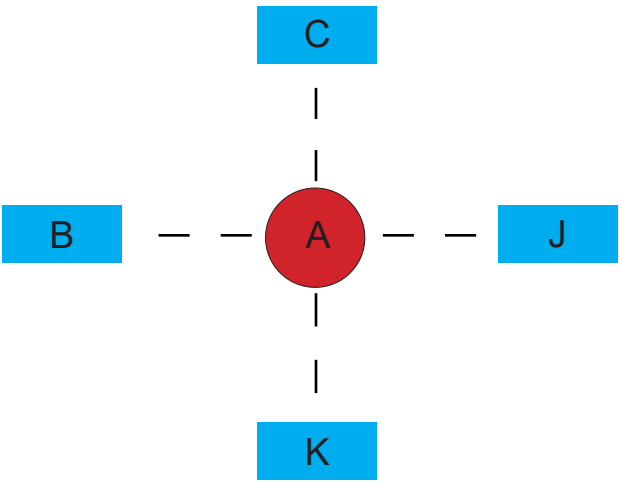
* Make sure the devices are in off state while charging, to prevent battery draining when fully charged.

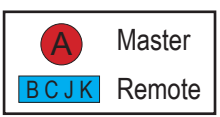
5 Person Team

Max Distance 2200ft



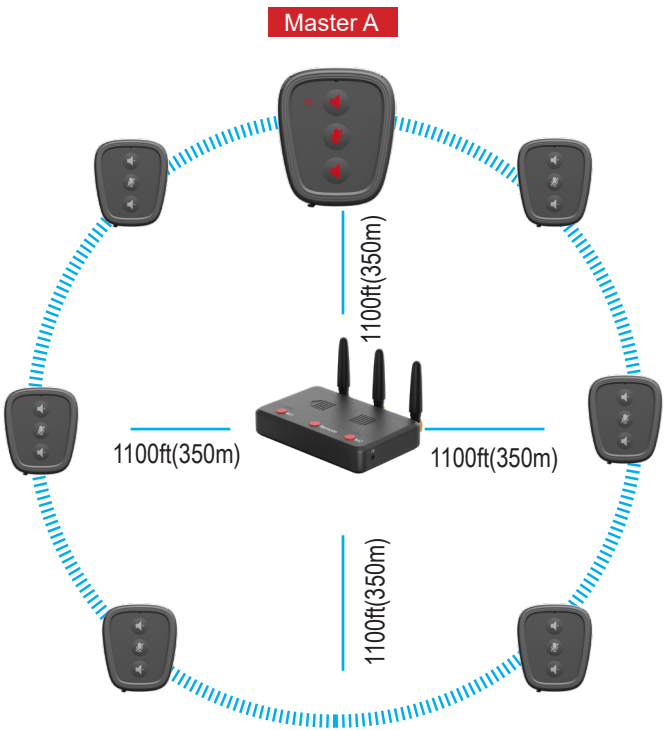
Pairing Diagram



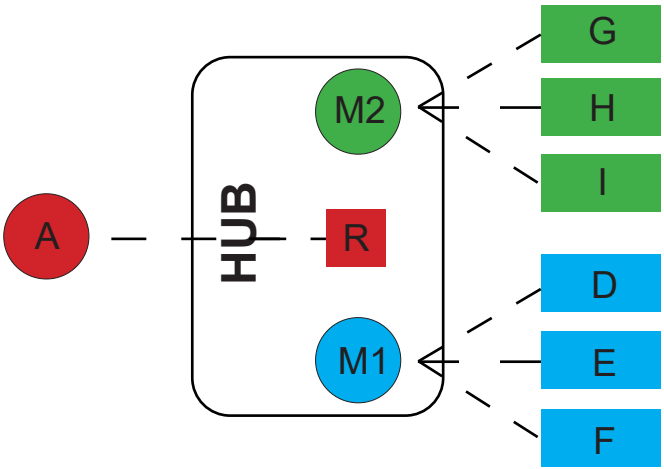


7 Person Team

Max Distance 2200ft

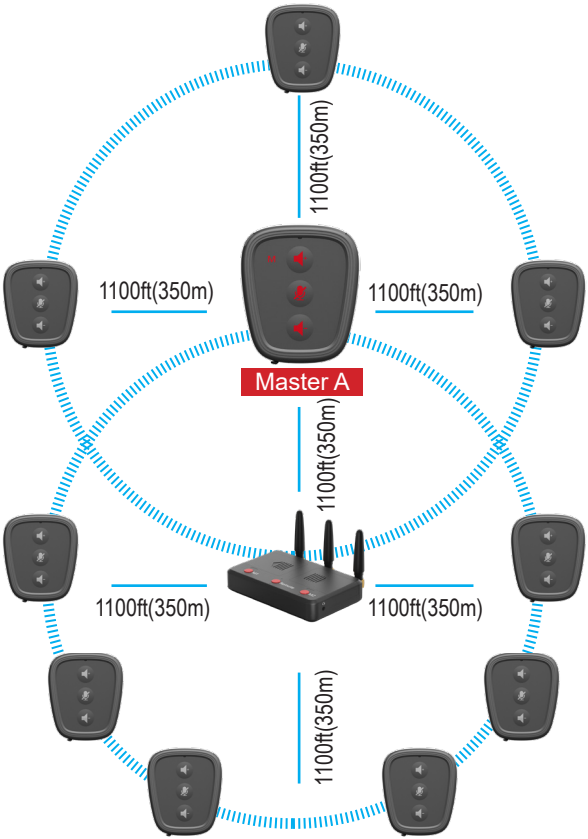


Pairing Diagram

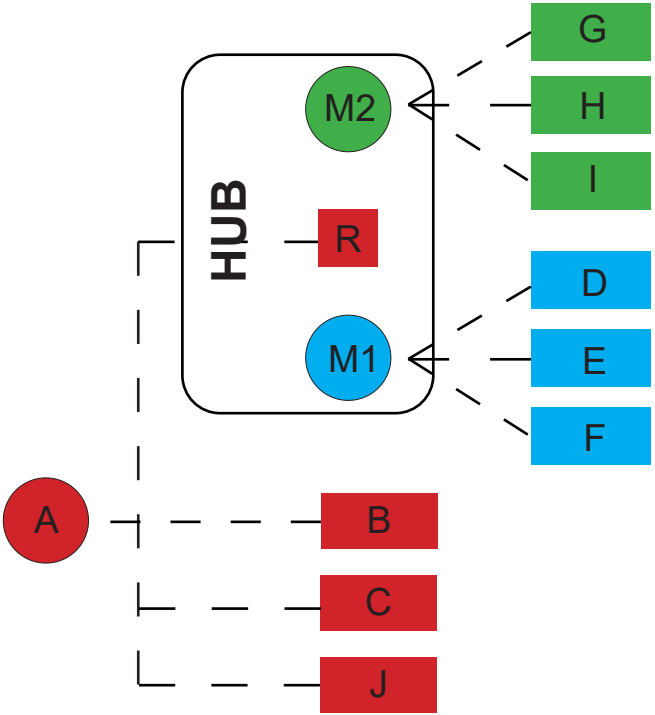


A	Master	R	Remote
M1	Master	D E F	Remote
M2	Master	G H I	Remote

10 Person Team Max Distance 3300ft



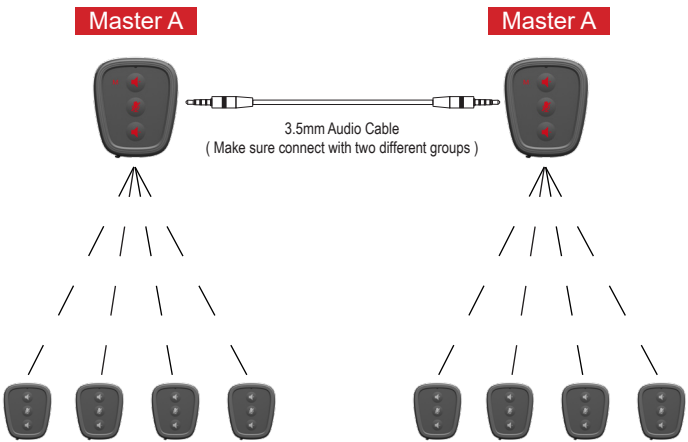
Pairing Diagram



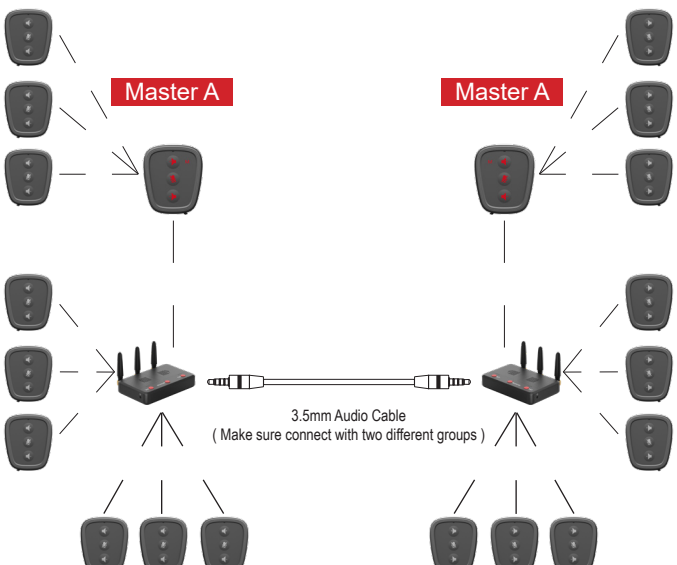
A	Master	R B C J	Remote
M1	Master	D E F	Remote
M2	Master	G H I	Remote

8 Person Team

8 Person Talking in One Group
or Split into Two Groups (Each Group Five Person)



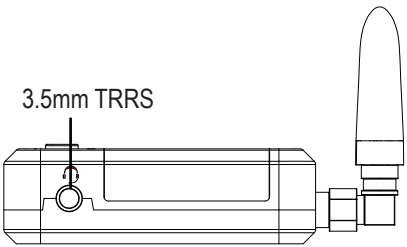
Expanding to 20 Person Talking
or Split into 2/3/4 Different Groups



Nano with Hub Set

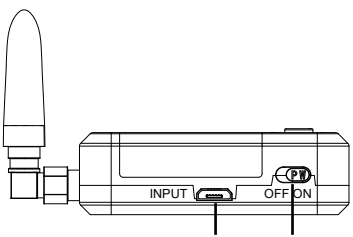
The Hub incorporates two Masters and one built-in Remote.
Each Master within the Hub can accommodate up to 3 Remotes.
With this configuration, a single hub enables connections for up to 10 NANO within a single system, while two hubs can facilitate connections for up to 15 NANO.
(Please refer to the pairing diagram above for further guidance.)

The hub has a micro USB port to power/charge the unit via 5V DC with a USB power supply or power bank.
When power is connected it can run directly without batteries and also charge when batteries are installed. The Hub can run alone on batteries and with one installed run time is about 8-10 hours and with two batteries installed, the run time increases to about 15-18 hours.

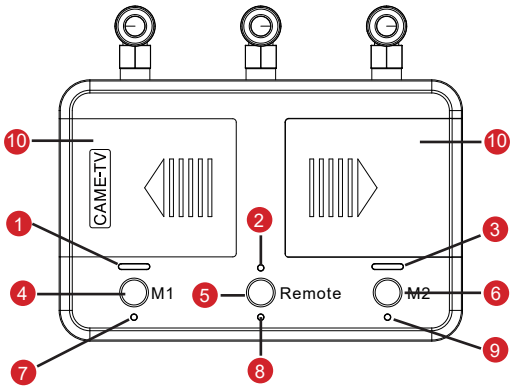


3.5mm TRRS audio jack
It adheres to the OMTP standard.
If your equipment follows the United States CTIA standard,
you will need to use a conversion cable.

USB Function
1. Direct Power Supply to the HUB
2. Charge batteries in the battery compartment.



Product details



1. Working indicator for M1 group
2. Working indicator for HUB remote
3. Working indicator for M2 group
4. Master 1 button
5. Remote button
6. Master 2 button
7. Charging indicator
8. Power indicator
9. Charging indicator
10. Battery compartment

Battery Compartment

As long as an NB-6L battery is present in the battery compartment, it will constantly supply power to the hub.

If there is no battery, the hub can also be connected to an external power supply through the USB port.

With an external USB power supply, the HUB can also charge the batteries placed inside it.

Working Indicator for M1 and M2

The working indicator aids in distinguishing the Master to which the remote belongs.

When viewed vertically from the top, the M1 and M2 indicators display the number of remotes they are connected to, with each Master capable of connecting to up to 3 remotes. Consequently, up to 6 indicators can illuminate simultaneously.

If a remote powers off or disconnects, the corresponding indicator will extinguish. For instance, if one of the remotes connected to M1 powers off, only two of M1's indicators will remain lit, while M2's indicators will remain unaffected.

The product comes pre-paired, allowing immediate use upon switching on the device without any additional steps. Pairing becomes necessary only if a remote loses connection with the master.

Pairing Steps

① Ensure that both the Master and all Remote devices are powered on. When the Master enters the pairing state, any remotes not powered on will be cleared from the set.

② Simultaneously press the "Volume Up" and "Volume Down" buttons on the Master until the green LED indicator begins flashing quickly and the sound of "pairing" is heard, indicating it has entered the pairing state. And then activate the pairing mode of remote Nano, it follows the same pairing activation steps by simultaneously pressing the volume up and down buttons. Start by pairing one remote, once it says “your headset is connected” then proceed to pair the remaining lost remotes one by one in sequence.

③ The master will automatically exit the pairing state and the LED will become solid once it is fully connected with all 4 remotes.
If there are fewer than 4 remotes, you can manually exit the pairing state by pressing the master Nano "Mute On/off "button.
If you want to pair a remote with a new master, be sure to turn off the previous master that was paired with that remote before initiating the new pairing process.

These are precise pairing procedures. It is strongly recommended to follow the guide carefully and accurately for successful operation of this unit.

Pairing

The product comes pre-paired, allowing immediate use upon switching on the device without any additional steps.
Pairing becomes necessary only if a remote loses connection with the master.

It is important to check the disconnected remote ID number to identify which group master it belongs to:

- Master A group (Remote Hub R and Remote B/C/J)
- Hub M1 group (Remote D/E/F)
- Hub M2 group (Remote G/H/I)

Make sure to pair the disconnected group only. Ensure that both the master and all remote devices in the disconnected group are powered on. When the Master enters the pairing state, any remotes not powered on in the same group will be cleared.

Pairing Steps for Different Group Remotes:

① Pairing Master A with Remote Hub R and Remote NANO B/C/J:
(In below two circumstances, make sure Master A, Remote Hub R, and Remote NANO B/C/J are powered on.)

If it is Remote B/C/J disconnected from Master A:

- Activate the pairing mode of Master A by pressing the "Volume Up" and "Volume down" buttons simultaneously, once the LED indicator starts flashing quickly and the sound of "pairing" is heard, indicating it has entered the pairing state. And then activate the pairing mode of lost remote Nano. Start by pairing one remote, once it says “your headset is connected” then proceed to pair the remaining lost remotes one by one in sequence.

If it is Remote Hub R disconnected from Master A:

- Press the Volume Up and Down keys simultaneously on Master A until the LED indicator starts flashing quickly to enter the pairing state.

-Press and hold the middle button on remote Hub R until the Blue LED indicator starts flashing quickly to enter the pairing state.

-Once they are successfully connected with each other, the working indicator for hub remote R will become solid. The Master A will automatically exit the pairing state and the LED will become solid once it is fully connected with 4 Remotes(Remote Hub R and Remote NANO B/C/J). If there are fewer than 4 remotes, you can manually exit the pairing state by pressing the master A mute button.

Pairing Steps for Different Group Remotes:

② Pairing the Hub M1 group (Remote D/E/F):

- Ensure that both the Hub M1 and all Remote D/E/F are powered on.

- Press and hold the left button on Hub M1 until the blue LED indicator starts flashing quickly to enter the pairing state. Simultaneously press the "Volume Up" and "Volume Down" buttons on the disconnected remote Nano until the LED starts flashing quickly, you will hear the sound of pairing from the remote. Begin by pairing one remote first, then proceed to pair the remaining lost remotes one by one in sequence.

- Hub M1 will automatically exit the pairing state, and the LED will become solid once it is fully connected with 3 remotes (Remote D/E/F). If there are fewer than 3 remotes, you can manually exit the pairing state by long-pressing the HUB M1 button.

③ Pairing the Hub M2 group (Remote G/H/I):

- Ensure that both the Hub M2 and all Remote I/H/G are powered on.

- Long-press the Hub M2 button to activate the pairing process. The procedure is similar to the step above.

NOTES

① The Master module and remote module in the hub cannot be paired at the same time, as it may result in malfunction.

② It is crucial to identify the group that the disconnected remote belongs to before pairing.

③ Pairing is only needed for the disconnected group, and ensure that all remotes in the same group are powered on before pairing.

FCC Regulatory Compliance

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Compliance

The device has been tested and comply with FCC SAR limits.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

While we trust you will never have the need, if you do,our service is both friendly and hassle-free.

Email:

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