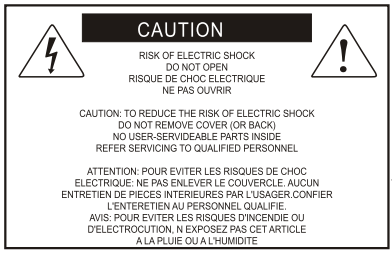
AIRMON · UHF

24-bit/96KHz Stereo (uncompressed) professional wireless monitor system

With its super-sleek, modern design, you can be assured of quality outcomes when using the AirMon UHF. Super low latency, extremely high transmission speeds and automatic pairing are just some of the benefits of using iCON Pro Audio's UHF professional wireless monitoring system. Add unlimited receivers to this powerful, yet highly portable system and enjoy high quality audio - a must for professionals and those who demand the very best!

User manual

CN1630



The lightning flash with arrowhead symbol within an equilateral triangle,is intended to,alert the user to the presence of uninsulated dangerous voltage within the product s enclosure, that may be of sufficient magnitude to electric shock to persons. Le symbol clair avec point de fl che l int rieur d un triangle quilat ral est utilis pour alerter l utilisateur de la pr sence l int rieur du coffret de vottage dangereux non isol d ampleur suff

exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (serviving) instructions in the literature accompanying the appliance. Le point d exclamation l int rieur d un triangle quilat ral est employ pour alerter les utilisateurs de la prsence d instructions importantes pour le fonctionnement et l entretien (service) dans le livret d instruction accmpagnant l appari l.

Important Safety Instructions

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this unit and all connected electrical equipment during lightning storms or when left unused for a long period of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

Contents

Introduction

Congratulations on your purchase of the ICON Pro Audio AirMon UHF, a 24-bit/96KHz Stereo (uncompressed) professional wireless monitor system.

The AirMon Pro is a wireless monitoring system consisting of two modules; a transmitter and a receiver. The system is expandable with limitless receivers per one transmitter.

Super low latency was at the top of the agenda in the design brief, as was the highest possible audio quality. The signal is transmitted digitally via UHF (627 MhZ - 667MhZ). The available sample rates are 48K and 96K (both 24 bit stereo), the latter offering extremely high audio quality. This represents unsurpassed audio quality for products of the AirMon UHF's type and class.

The AirMon UHF's demonstrates superior performance when faced with physical obstacles in its path, when compared with non-UHF based systems. It is far less likely to encounter interference as a result.

The AirMon UHF is ideal for users who demand outstanding audio quality and reliability. This uniquely advanced system offers robust build quality, coupled with a stylish, sleek, intelligent design.

What's in the package?

- AirMon UHF receiver
- AirMon UHF transmitter
- Detachable antennas
- Earphones
- Re-chargeable battery in both units (6 hours continuous use)
- 3.5 mm to 3.5 mm cable for connecting external sound sources to the transmitter
- Y cable for charging both devices (USB C x 2 to USB 2.00)
- Included belt clip (affixed to the receiver)

Register your ICON Pro Audio product to your personal account

1. Check the serial number of your device

Please go to **http:// iconproaudio.com/registration** or scan the QR code below.

Input your device's serial number and the other information on the screen. Click "Submit".

A message will pop up showing your device information such as model name and its serial number - Click "Register this device to my account". If you see any other message, please contact our after-sales service team.

2. Log in to your personal account page for existing users or sign up as new user

Existing users: Please log into your personal user page by inputting your user name and password.

New users: Please click "Sign Up" and fill in all the information.

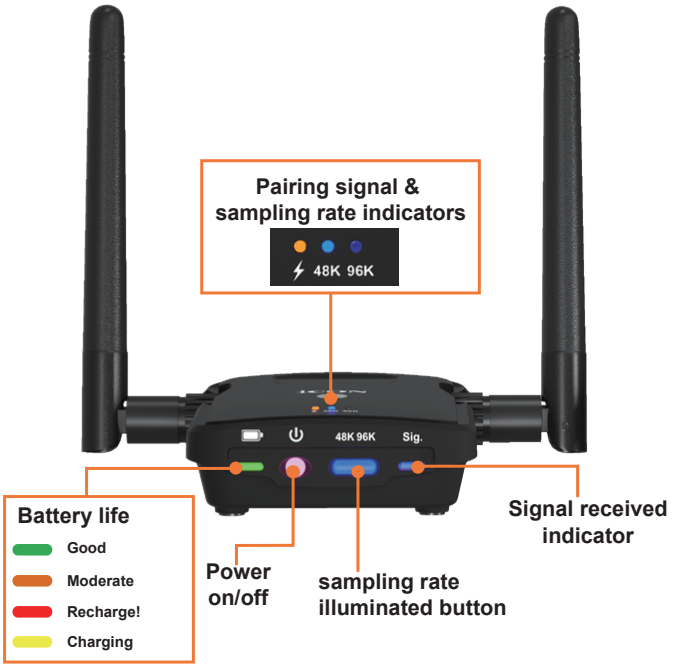
3. Download all useful materials

All your registered devices under your account will show on the page. Each product will be listed along with all its available files such as drivers, firmware, user manual in different languages and bundled software etc. for download.

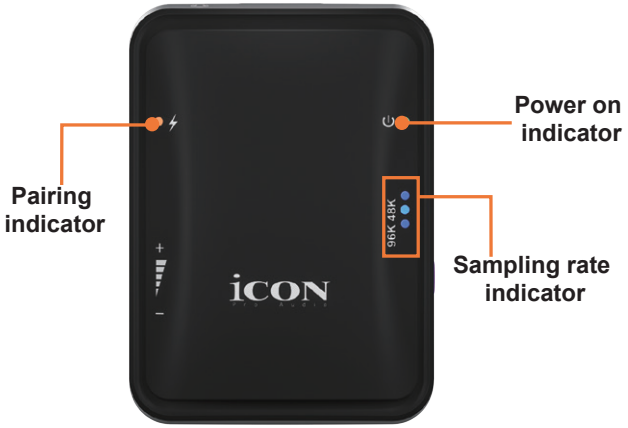
Features

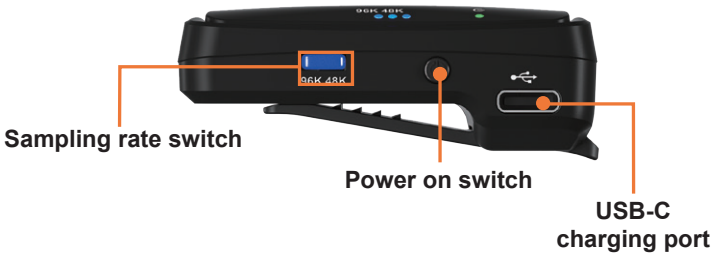
- Uncompressed digital transmission using 48KHz or 96KHz sampling rates
- UHF proprietary encryption technology for ultra-low latency for wireless transmission (approx. 9 milliseconds)
- Minimal interference
- Use unlimited receivers per one transmitter
- Uniquely innovative technology allows the user to choose a transmission sample rate of 48K stereo or 96K stereo
- Switch easily between 48K and 96K sampling rates with an illuminated button
- Connects automatically - (extremely easy to 'pair' the devices)
- Super fast pairing (usually 1-2 seconds)
- Rechargeable lithium battery for both transmitter and receiver (long operational use)
- Approximately 6 hrs (transmitter) / 6 hrs (receiver) use on a full battery charge
- Sleek, super compact and stylish design
- Pairing switches (as back up system in case pairing does not occur automatically)
- Headphone output port (3.5mm)
- Type C USB connector for charging for both units
- Included USB-C Y cable for convenient charging (both units at the same time)
- Belt clip fixture (receiver)
- Detachable antennas (included)
- Includes earphones, storage pouch, connection and charging cables

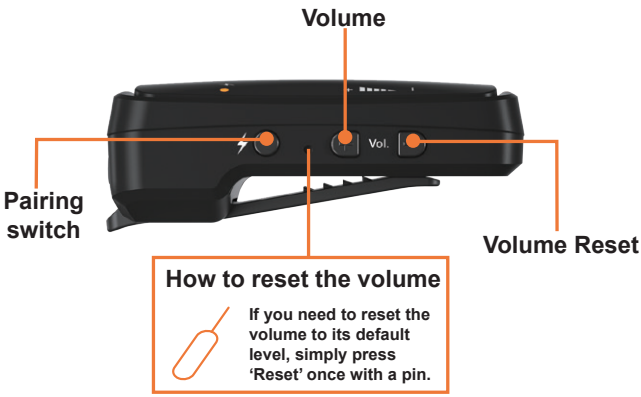
AirMon UHF: The Transmitter



AirMon UHF: The Receiver







Set Up

STEP ONE - Choose the sampling rate

Turn the transmitter and receiver on by pressing and holding the power buttons. The power switches will illuminate in a red color - this confirms the unit is switched on.

On the transmitter and receiver, select which sample rate you would like to broadcast on, either 48K or 96K. You can do this by pressing the sample rate illuminated button.

Each time you press the button, the sampling rate LED indicator on top of both devices will change, either indicating 48K or 96K. Both units sampling rate must match for the system to work.

STEP TWO - Pair the devices

The two units will begin pairing automatically, once they are turned on. The units must be set to the same sampling rate, otherwise, they will not pair. This is indicated by the flashing LED of the pairing indicator, (the LED next to the lightning bolt symbol on both devices).

Once paired, the pairing indicator will be permanently illuminated on both the transmitter and receiver. The pairing process typically takes a few seconds.

Should, for any reason, the devices not pair or you experience any interference, simply press the 'Channel' button once at the rear of the transmitter device and the 'pairing button' on the receiver, (indicated by the lightning bolt symbol). The system will then 'channel hop' to find the cleanest channel within the given range. This ordinarily takes a matter of seconds.

The system will search for a suitable frequency within the 627- 667 Mhz range, (within the ultra high frequency range). When it is found, the devices will be paired. The pairing indicator will be permanently illuminated on both the transmitter and receiver, once paired.

Should you wish to add another receiver unit, simply turn it on and press the pair button. Given that the sampling rate is the same as the transmitter, it will also pair within a matter of seconds.

If you wish to change sampling rate, simply change each device to the desired setting and wait for automatic pairing to occur.

Using AirMon UHF

Simply plug the 3.5mm cable into your sound source and then into the ‘in’ port of your AirMon UHF, (with the sound source's volume at a suitably low level).

Ensure your AirMon UHF system is paired, (as described in the ‘Set Up’ section). Plug your ear buds into the headphone jack of the AirMon UHF.

Always ensure the initial volume is at a low and safe volume level in order to protect the ear safety of users. Adjust to taste.

Transmission distance is usually around 30 meters. It is advisable for users to test transmission distance before use in differing environments.

Need more receivers?

You can add as many receivers as you'd like to your AirMon UHF system. The amount you can add is completely unlimited. Additional receivers are available to purchase separately. Please contact your iCON retailer for details.

Need more transmitters?

It is possible to add more transmitters to your AirMon UHF system. Three is the maximum amount you can use in the same environment. For example, you may purchase three AirMon UHF sets (which will provide you with a total of three transmitters and six receivers). You can add as many additional receivers as you would like, (available seperately).

There are a few things to consider;
Transmitters and receivers pair automatically, therefore receivers cannot be 'assigned' specifically to a given transmitter in advance by allocating specific frequencies. It is possible to allocate specific receivers to different transmitters, however, by following the process described in the following pages.

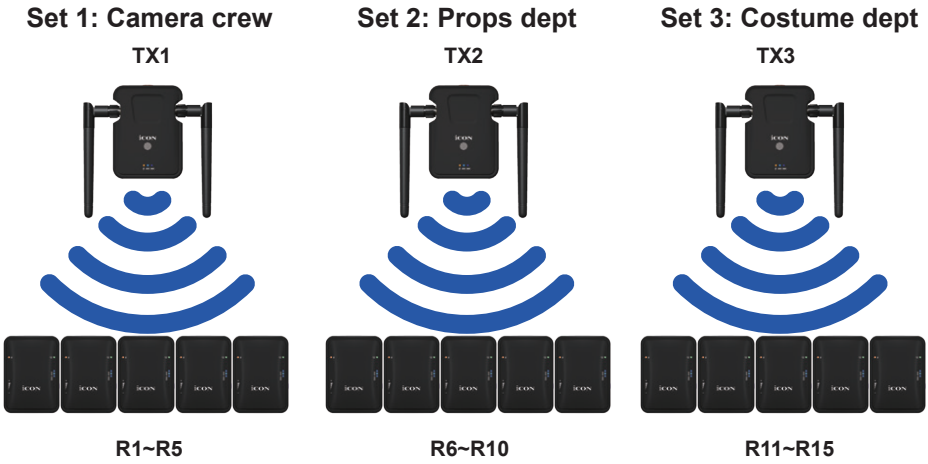
To demonstrate how this works, let's take a small film set as an example scenario.

There are 3 transmitters and 15 receivers in this scenario.

Set 1 belongs to the camera crew. They will be directed via a microphone/audio interface plugged into Transmitter 1. There are 5 receivers used by the camera crew to hear the instructions.

Set 2 belongs to the props department. They will be directed via a microphone/audio interface plugged into Transmitter 2. There are 5 receivers used by the crew to hear their instructions.

Set 3 belongs to the costume department. They will be directed via a microphone/ audio interface plugged into Transmitter 3. There are 5 receivers used by the costume department to hear the instructions on set.



Jargon buster:
Tx = transmitter
Rx = receiver

Set 1 (Transmitter 1 + 5 receivers):
Turn on the transmitter. Turn on the 5 receivers, (Rx1 - Rx5). Press the channel button on the transmitter. All 5 receivers will pair with transmitter 1. The orange pairing indicator LED will be lit on both transmitter 1 and the 5 receivers.

These are all paired, so you can put these to the side and focus now on set 2.

Set 2 (Transmitter 2 + 5 receivers)
Turn on transmitter 2. Turn on the 5 receivers (Rx6 - Rx10 - in this example, the 5 receivers that belong to the props department). Press the channel button on transmitter 2. The 5 receivers (Rx6 - Rx10) will pair with transmitter 2. This will be indicated by the orange pairing indicator LED being lit on both transmitter 2 and the 5 receivers belonging to Set 2. You don't need to worry about whether the receivers in set 1 will somehow become paired with transmitter 2, because they are already paired and ready to go.

Once paired, Set 2's units can be put to the side, together with Set 1's units, ready for use in a few moments.

Set 3 (Transmitter 3 + 5 receivers)
Turn on transmitter 3. Turn on the 5 receivers (Rx11 - Rx15 - in this example, the 5 receivers that belong to the costume department). Press the channel button on transmitter 3. The 5 receivers (Rx11 - Rx15) will pair with transmitter 3. This will be

indicated by the orange pairing indicator LED being lit on both transmitter 3 and the 5 receivers belonging to Set 3. You don't need to worry about whether the receivers in set 1 or 2 will somehow become paired with transmitter 3, because they are already paired and ready to go.

Once paired, Set 3's units are ready to be used, along with sets 1 and 2.

Quick Guide for Pairing Multiple Transmitters & Receivers in the same Environment:

Units	Step 1	Step 2	Step 3	Step 4
Tx1 + 1 or more Rx **(PAIR FIRST)**	Turn on Tx1	Turn on Rx unit/s to be paired with Tx1	Press Tx1 'channel' button.	Tx1 + Rx unit's pair (orange indicator LED lit on Tx1 + Rx unit/s)
Tx2 + 1 or more Rx **(PAIR SECOND)**	Turn on Tx2	Turn on Rx unit/s to be paired with Tx2	Press Tx2 'channel' button.	Tx2 + Rx unit's pair (orange indicator LED lit on Tx2 + Rx unit/s)
Tx3 + 1 or more Rx **(PAIR LAST)**	Turn on Tx3	Turn on Rx unit/s to be paired with Tx3	Press Tx3 'channel' button.	Tx3 + Rx unit's pair (orange indicator LED lit on Tx3 + Rx unit/s) **All units now ready for use**

Maximum Tx: 3 Maximum Rx: none

What if....

I want to pair my receiver with another transmitter?

Using the same scenario explored in the previous pages of 3 sets of transmitters with 5 receivers per set, let's take 1 receiver in set 2 (props dept.) which is used by Bushra. Bushra will temporarily be deployed in the costume department, so he needs to join set 3's receivers. Bushra pushes the pairing button on his receiver. All other users of receivers in the costume department (set 3) will also need to push the pairing button on their receivers too.

The 'channel' button on transmitter 3 is pushed. All 6 receivers in set 3 (costume dept.) will now pair with transmitter 3.

What if....

I turn off my receiver - will I need to pair it to the transmitter again?

The receiver and transmitter will automatically remember their last pairing, so there is no need to re-pair the devices when turning them back on.

Getting Interference?

In the unlikely event that your units pick up interference, simply press the 'Channel' button at the rear of the transmitter device and the 'pairing button' on the receiver, (indicated by the lightning bolt symbol). The units will then find another frequency and pair automatically.

Safety First!

The World Health Organization (WHO) suggests you should listen to your headphones at a maximum volume level of 85 decibels (dB) for a maximum 8 hours. Scientists recommend a listening range of between 60 - 80 dB.

Most MP3 players, phones, and other listening devices rise above the recommended dB levels with headphones when you turn up the volume. They can normally achieve 105 dB. If you listen at these levels, it should be for a short time (10 minutes), otherwise you risk permanent damage to your hearing.

Specifications

Audio	Transmitter			Receiver		
Sampling Frequency (Selectable)	96KHz	48KHz		96KHz	48KHz	
Sampling bit rate	24bit	24bit		24bit	24bit	
Channel Mode	STEREO	STEREO		STEREO	STEREO	
Input Level	0dBV					
Input Impedance	10K ohm					
Output Level				792mW		
Output Impedance				32 ohm		

Radio Frequency	Transmitter	Receiver
Operating Frequency	627MHz-667MHz	
Digital Modulation	GFSK	
Occupied Bandwidth	1.5MHz	
Transmission output	15dBm	
Receiving Sensitivity		-90dBm
Selectable Channel	40 channel	

Power	Transmitter	Receiver
Current consumption	140mA	110mA
Power Requirements	Built-in rechargeable LiPo battery charged via USB 5V, 0.5A	
Battery Operating Time	6Hrs(approx)	6Hrs(approx)

Dimensions and Weights	Transmitter	Receiver
Dimensions (WxDxH)	53x71x21mm (2.1"x2.8"x0.8")	44x61x21mm (1.7"x2.4"x0.8")
Weight	78.6g	41g
Accessory	USB Recharging cable and storage pouch	

Services

If your AirMon UHF needs servicing, follow these instructions.

Check our online Help Center at **http://support.iconproaudio.com,** for information, knowledge, and downloads such as:
1. FAQ
2. Download
3. Product Registration
4. Video Tutorials

Very often you will find solutions on these pages. If you don't find a solution, create a support ticket at our online Help Center at the link below, and our technical support team will assist you as soon as we can.
Navigate to **https://support.iconproaudio.com** and then sign in to submit a ticket. Once you have submitted an inquiry ticket, our support team will assist you to resolve the problem with your ICON Pro Audio device as soon as possible.

To send defective products for service:

1. Ensure the problem is not related to operation error or external system devices.
2. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.
3. Ship to the ICON tech support center or the local return authorization. See our service centers and distributor service points at the link below:

   If you are located in the **United States** please visit our help centre - **https://support.iconproaudio.com** and submit a ticket to the technical support team.

   If you are located in **Europe**, please email the support team and wait for a response before sending the product to:

   Sound Service GmbH
   European Headquarters
   Moriz-Seeler-Straße3 D-12489 Berlin
   Telephone: +49 (0)30 707 130-0
   Fax: +49 (0)30 707 130-189
   E-Mail: service@sound-service.eu

   If you are located in **Hong Kong** please email the support team and wait for a response before sending the product to:
   ASIA OFFICE:
   Unit F, 15/F., Fu Cheung Centre,
   No. 5-7 Wong Chuk Yueng Street,
   Fotan,
   Sha Tin, N.T., Hong Kong.
   Tel: (852) 2398 2286
   Fax: (852) 2789 3947
   Email: info.asia@icon-global.com

For additional update information please visit our website at: www.iconproaudio.com

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