







# **THUNDER** X

**Superior performance with an  
intergalactic design.**

Introducing the new standard in live  
performance handheld condenser microphones.



User manual

<div style="text-align: center;">  <div style="background-color: black; color: white; padding: 2px 10px; font-weight: bold; margin: 0 auto; width: 100px;">CAUTION</div>  </div> <p style="text-align: center; font-size: small;">             RISK OF ELECTRIC SHOCK              DO NOT OPEN              RISQUE DE CHOC ELECTRIQUE              NE PAS OUVRIR         </p> <p style="text-align: center; font-size: x-small;">             CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK              DO NOT REMOVE COVER (OR BACK)              NO USER-SERVICEABLE PARTS INSIDE              REFER SERVICING TO QUALIFIED PERSONNEL         </p> <p style="text-align: center; font-size: x-small;">             ATTENTION: POUR EVITER LES RISQUES DE CHOC              ELECTRIQUE: NE PAS ENLEVER LE COUVERCLE. AUCUN              ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER              L'ENTRETIEN AU PERSONNEL QUALIFIE              AVIS: POUR EVITER LES RISQUES D'INCENDIE OU              D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE              A LA PLUIE OU A L'HUMIDITE         </p>	<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p style="font-size: x-small;">             The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated hazardous voltage within the device's enclosure, which may be of sufficient magnitude to induce a risk of electric shock to persons.         </p> <p style="font-size: x-small;">             The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the device.         </p>
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## ***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 microphone to rain or moisture. Avoid having water or other liquids spilled on this microphone.
6. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
7. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
8. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
9. Only use attachments/accessories specified by the manufacturer.
10. Unplug this microphone and all connected electrical equipment during lightning storms or when left unused for a long period of time.
11. 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**

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# ***Introduction***

Firstly, congratulations on your purchase of the ICON Pro Audio Thunder X microphone! In these pages, you'll find a detailed description of the features of the Thunder X microphone and a full list of specifications.

Please register the product on our website at the link below

[my.iconproaudio.com/registration](http://my.iconproaudio.com/registration)

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event that the product is returned for servicing, the original packaging (or reasonable equivalent) is required. With proper care and adequate air circulation, your Thunder X microphone will operate flawlessly for many years to come.

We trust that this product will provide years of excellent service and in the unlikely event that your product does not perform to the highest standard, every effort will be made to address the issue.

## ***What's in the package?***

- Thunder X microphone
- Shockmount clip
- Foam pop-filter
- Metal case



# ***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](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 a new user**

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

New user: 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 manuals in different languages and bundled software etc. for download.

# Features

The Thunder X is a large diaphragm, handheld condenser microphone. The Thunder X makes sound sources sound beautiful, big and airy and is a significant leap upwards in respect of audio quality when compared to many dynamic stage microphones.

Its large gold plated diaphragm (32mm), is surrounded by a soft, protective bracket which extends into the microphone chassis and with its low self-noise levels and robust construction, the Thunder X is an ideal microphone for the stage. It can also be used for all manner of studio applications, such as recording acoustic instruments like the acoustic guitar. The Thunder X produces rich tones in the lower frequencies, capturing audio sources with warmth, clarity and depth.

Silver plated wiring connects the premium large gold plated diaphragm, guaranteeing signal integrity. Only the highest quality components have been used in the making of the Thunder X, including Fairchild resistors and Wima capacitors.

Ergonomically engineered to be comfortably held for long periods of time, the Thunder X is the ideal choice for high quality, rich vocal tones in a live setting. Microphone technique, (how near or far the microphone is held to the mouth in relation to vocal volume), is more pronounced and can be more effective when using the Thunder X, than with a dynamic microphone. It is a great choice for seasoned performers and those that insist on excellence.

Durable and reliable, the Thunder X is ideal for vocals and spoken word. Use the Thunder X for podcasting, field recordings and presentations for rich, clear tones as well as live performance and studio applications.

- High degree of clarity and quality for all manner of vocal applications
- Ideal as a live microphone suited to singing, rap, comedy and presentations in addition to podcasting, field recording and almost any other application
- Cardioid (unidirectional) dynamic pickup pattern for outstanding sound source separation and feedback rejection
- Extremely high quality components including a large 32mm gold plated diaphragm, silver plated wiring, a Fairchild resistor and Wima capacitor
- Pressure-gradient transducer with shock-mounted capsule
- Ultra-rugged construction with all metal finish
- Exceptional build quality and easy to hold for long periods of time
- Robust, high grade XLR connector
- Shockmount clip to attach the Thunder X to a mic stand included
- Foam pop filter included

# ***Operating the Thunder X***

## **Powering the Thunder X (48V)**

The Thunder X is a condenser microphone and therefore needs to be operated by connecting a phantom power supply. Phantom power is standard on most quality mixers, outboard MIC pre-amplifiers and hard disk recorders. If necessary an external phantom power supply can also be used. The Thunder receives the phantom power directly from a MIC cable when connected to a mixer or other microphone input that includes a phantom supply. The power is actually sent OUT of the microphone INPUT, riding silently along with the audio signal. Most mixers have a switch to engage the phantom power so be sure to check that the phantom power is on.

## **Setting up the signal level**

When connecting the Thunder X to a mixer or recorder input, be sure that the input is at a suitable level. Most mixers and recorders of reasonable quality will offer a microphone input with MIC trim (usually called Trim or Gain) control. The purpose of the MIC trim control is to optimize the amount of good signal to any noise associated with the mixers electronics. A good MIC preamplifier with trim also will have a Peak or Clip LED. To set a good level on the Thunder X, set it up in front of the desired sound source (i.e. a presenter talking) and slowly raise the MIC trim control until you see the Peak LED light up. Then, turn the mix trim control down until the LED does not light any more. On most mixers, the ideal setting is that the trim control is turned up as much as possible without lighting the Peak LED.

## **Microphone Placement**

In order to maximize the sound quality, please pay careful attention to the placement of your Thunder X and how it is positioned. All microphones, especially cardioids, exhibit a phenomenon known as the “proximity effect”. Very simply put, proximity effect is a resulting change in the frequency response of a microphone based on the position of the MIC capsule relative to the sound source. Specifically, when you point a cardioid MIC directly at the sound source (on-axis) you will get the best frequency response, however, when you start pointing the microphone slightly away (off-axis) you will notice the low frequency dropping off and the microphone will start to sound thinner.

For most vocal applications you'll want to position the microphone directly in front of the presenter. If you find that the voice produces an overly 'bassy' effect, try EQing a 'low cut' on your mixer, (or applying a high pass filter - HPF) and re-positioning the mic (experimentation is the best teacher, here).

## Connecting the Thunder X

The Thunder X has an XLR connection which provides a balanced output. A good quality XLR cable is required to connect the microphone, (not supplied).

## P-Poping

P-Poping is that annoying pop sound that you can get when the microphone diaphragm gets a blast of air from a vocalist pronouncing words with the letter “P” included, (because it is a “plosive” syllable). Using the included foam pop filter will help eliminate these unpleasant sounds if experienced.

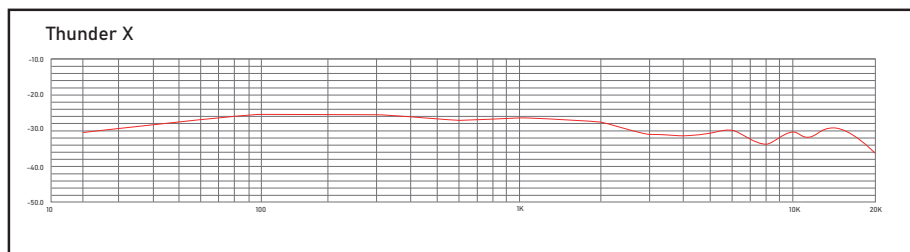
## Mounting the Thunder

Mount your Thunder into the provided suspension mount as shown below.





# Specifications



Transducer type	electrostatic
Operating principle	pressure gradient
Diaphragm diameter	32mm
Frequency range	20 Hz to 20 kHz
Polar pattern	omnidirectional,cardioid
Sensitivity at 1 kHz into 1000 $\Omega$ load	33dB
Output impedance	50 $\Omega$
Rated load impedance	1000 $\Omega$
Suggested load impedance	> 500 $\Omega$
Maximum SPL for 0,5% THD at 1000 $\Omega$ load	123dB
S/N Ratio DIN/IEC 651 A-weighted	84db
Equivalent noise level DIN/IEC A-weighted	8dB-A
Dynamic range of the microphone preamplifier	125dB
Phantom powering voltage on pin 2&3 of XLR	.+48V (+/-4V)
Current consumption	< 5mA
Output connector	3-pin XLR male
Weight	0.33kg
Dimensions	48mm×48mm×177mm

# Services

If your Thunder X 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](mailto: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](mailto:info.asia@icon-global.com)**

For additional update information please visit our website at: [www.iconproaudio.com](http://www.iconproaudio.com)



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