

ICON
pro audio



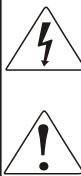
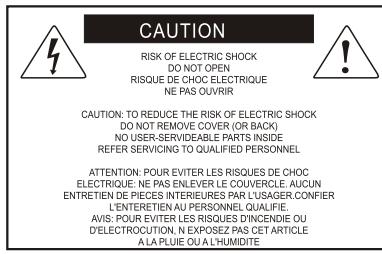
THUNDER

OUT OF THIS WORLD DYNAMICS

Icon's Space Series microphones fuse vintage sounding clarity with bold, intergalactic design.



User manual



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 symbole clair avec point de fl che l'int rieur d'un triangle quel que ral est utilis pour alerter l'utilisateur de la pr sence d'int rieur du coffret de voltage 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 (servicing) instructions in the literature accompanying the appliance. Le point d'exclamation l'int rieur d'un triangle quel que ral est employ pour alerter les utilisateurs de la pr sence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

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. 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 unit and all connected electrical equipment during lightning storms or when left unused 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 Studio condenser microphone! In these pages, you'll find a detailed description of the features of the Thunder Studio condenser microphone, as well as instructions for their setup and use in addition to a full list of specifications.

Please register the product on our website at the link below

www.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 Studio condenser 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 Studio condenser microphone
- Shock Mount
- Clip
- Metal Case
- Foam pop filter

Register your ICON ProAudio product to your personal account

1. Check 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" or if you see any other message, please contact our after-sales service team

2. Log in to your personal account page for existing user or sign up for 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 manual in different languages and bundled software etc. for download. Please make sure you have download the necessary files such as driver before you begin device installation.

Features



The Thunder handheld condenser microphone offers superior sound quality and sensitivity in a hand held performance microphone. It comes complete with its own unique, patented hand-held shock mount - eliminating noises associated with handling mics in a live or studio setting. Want to attach the Thunder to a mic stand? iCON has you covered with the included clip which fits around the body of the handheld shock mount. This original, bold design will pristinely capture the intended sound and nothing more.

- Professional hand-build 27mm large-diaphragm capsule for full, open-sound and unsurpassed audio quality
- Ideal as a primary or support microphone for a variety of recording situations
- Cardioid pickup pattern for outstanding sound source separation and feedback rejection
- Pressure-gradient transducer with shock-mounted capsule
- Top-quality components including Wima capacitors and Fairchild resistors
- Perfect for vocal performance applications
- Ultra-rugged construction with all metal body
- Extremely high grade and long-lasting components
- Patented handheld suspension shock mount
- Metal storage case

Operating the Thunder

Powering the Thunder (48V)

The Thunder 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 to a mixer or recorder input, be sure that the input is of microphone level. Also, be sure that the 48V phantom power is engaged as explained at the previous section “Powering the Thunder”. 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 pre with trim also will have a Peak or Clip LED. To set a good level on the MIC, set the Thunder up in front of the desired sound source 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, you must pay careful attention to the placement of your Thunder and how it is positioned for the instrument or vocalist that you are miking. All microphones, especially unidirectional or cardioids microphones, 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 microphone 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 artist. The same may be true for miking instruments. However, you can make some pretty amazing equalization adjustments by slightly changing the angle of the

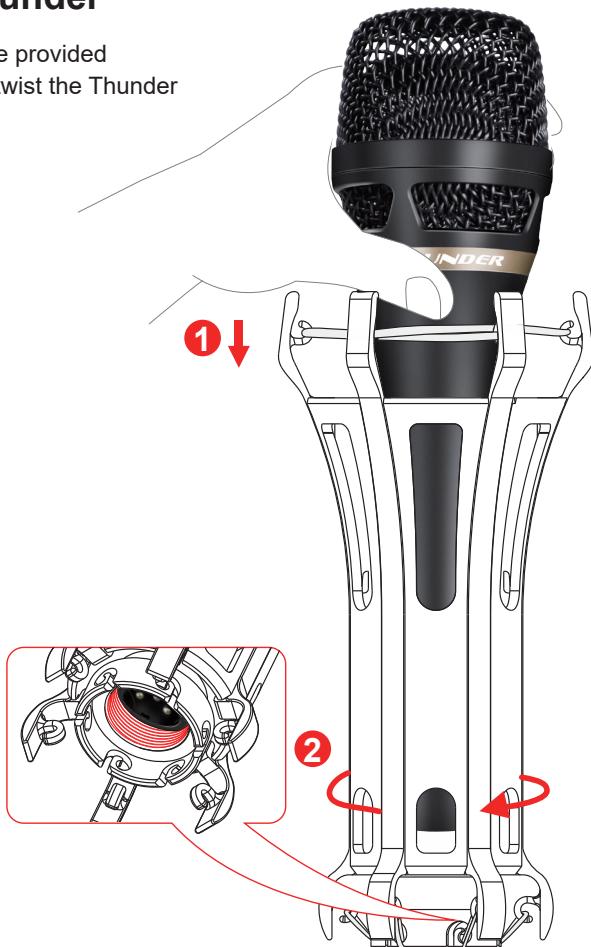
capsule to the sound source. This can be a very useful technique in capturing the optimum sound of drum kit, acoustic guitar, piano or other instruments in a live room or sound stage. Experimentation and experience are the best teachers in getting good sounds, so plug in!

P-Popping

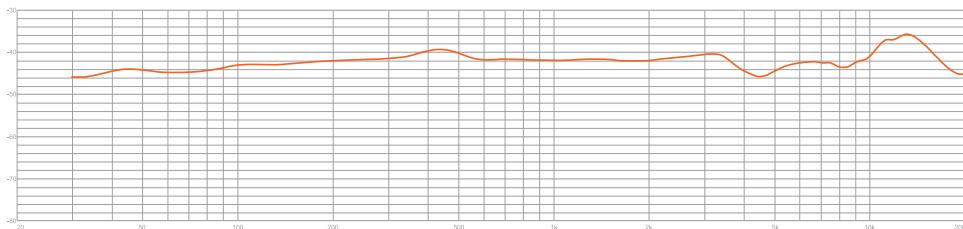
P-Popping is that annoying pop sound that you can get when the microphone diaphragm gets a blast of air from a vocalist pronouncing words with the letter "P" included, (because it is a "plosive" syllable). Using the included foam pop filter will help eliminate these unpleasant sounds.

Mounting the Thunder

Mount your Thunder into the provided suspension mount. Simply twist the Thunder into place.



Specifications



Transducer type.....	electrostatic
Operating principle.....	pressure gradient
The diaphragms active diameter.....	28mm
Frequency range.....	20 Hz to 20 kHz
Polar pattern.....	unidirectional,cardioid
Sensitivity at 1 kHz into 1000 Ω load.....	-35dBV
Output impedance.....	50 Ω
Rated load impedance.....	1000 Ω
Suggested load impedance.....	>1000 Ω
Maximum SPL for 0,5% THD at 1000 Ω load.....	136 dB
S/N Ratio DIN/IEC 651 A-weighten.....	89db
Equivalent noise level DIN/IEC A-weighten.....	6 dB-A
Dynamic range of the microphone preamplifier.....	130 dB
Phantom powering voltage on pin 2&3 of XLR	+48V (+/-4V)
Current consumption	\leq 3 mA
Output connector.....	3-pin XLR male
Dimension.....	52mmX52mmX190mm
Weight.....	0.283kg

Services

If your Thunder needs servicing, follow these instructions.

Check our online Help Center at <http://support.iconproaudio.com/hc/en-us>, 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 <http://support.iconproaudio.com/hc/en-us> 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 ProAudio 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. Keep this owner's manual. We don't need it to repair the unit.
3. 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.
4. 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 US

Send the product to:

North America

Mixware, LLC – U.S. Distributor

3086 W. POST RD.

LAS VEGAS NV 89118

Tel.: (818) 578 4030

Contact: www.mixware.net/help

If you are located in Europe

Send the product to:

Sound Service

GmbHEuropean

HeadquarterMoriz-Seeler-Straße

3D-12489 Berlin

Telephone: +49 (0)30 707 130-0

Fax: +49 (0)30 707 130-189

E-Mail: info@sound-service.eu

If you are located in Hong Kong

Send 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

5. For additional update information please visit our website at:

www.iconproaudio.com



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