

**i**CON







# PX-Sub10A

***Active Studio Subwoofer System***

Owner's Manual



**C**N16549


	<p><b>CAUTION</b></p> <p>RISK OF ELECTRIC SHOCK DO NOT OPEN RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR</p>		
<p>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>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>		<p>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 flèche à l'intérieur d'un triangle équilatéral est utilisé pour avertir l'utilisateur de la présence à l'intérieur du coffret de voltage dangereux non isolé d'ampleur suffisante.</p> <p>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 à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.</p>	

## 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. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. 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***

Thank you for purchasing the ICON PX-Sub10A active studio monitor system. We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

In these pages, you'll find a detailed description of the features of the PX-Sub 10A, step-by-step instructions for its setup and use, and full specifications.

Please register the product on our website at the below link [www.iconproaudio.com/registration](http://www.iconproaudio.com/registration):

You'll also find a warranty card enclosed---please don't forget to fill it out and mail it so that you can receive online technical support at: [www.iconproaudio.com](http://www.iconproaudio.com). And so we can send you updated information about these and other ICON products in the future. As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

With proper care , your PX-Sub10A will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

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

- PX-Sub10A Active Subwoofer System
- Users' Manual
- Power Cable

## ***Intended use***

The ICON PX-Sub10A Studio Subwoofer system is a loudspeaker with an integrated amplifier for the reproduction of the deepest audio frequencies. This product has been specifically designed and developed for use in a professional studio environment. The reliability and performance of this product cannot be guaranteed for other applications or uses.



## ***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

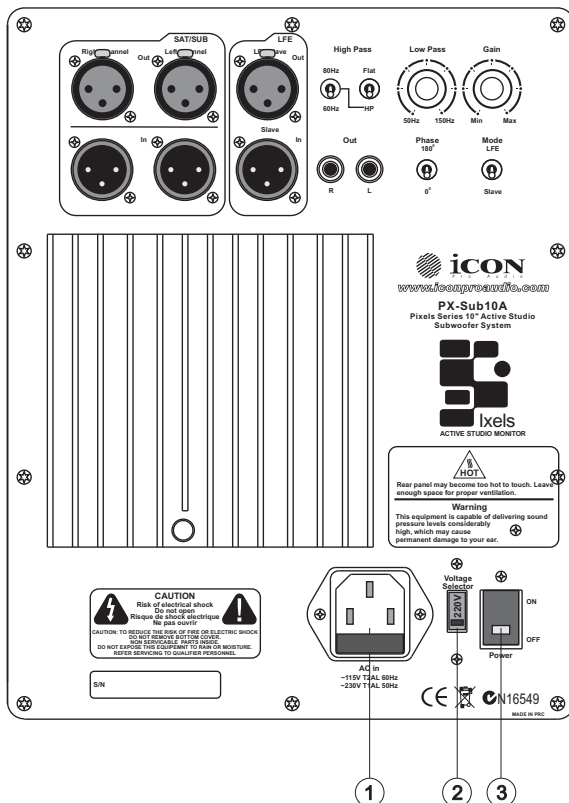
 PX-Sub10A



The ICON PX-Sub10A Active Studio Subwoofer system provide a powerful and precise low-frequency reproduction. Here are some of its main features:

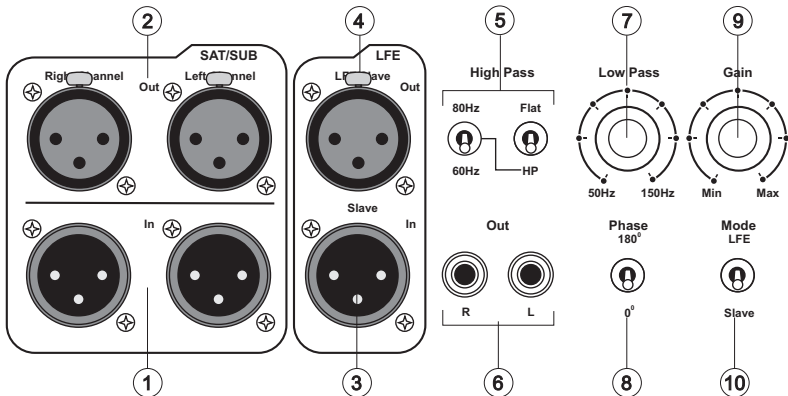
- 10" Woofer
- Phase adjustment in  $0^{\circ}$  /  $180^{\circ}$
- 29-200 Hz precision low-frequency reproduction
- Balanced XLR output connectors
- Subwoofer output level control (gain)
- Adjustment of crossover frequency ranges
- Low-frequency extension adjustment
- 200W power handling @ 8 Ohms
- Studio cabinet ideal for professional applications

## Rear Panel Layout



- ① **AC In**  
Main power input
- ② **Voltage Selector**  
110V / 220V input voltage selector
- ③ **Power Switch**  
Turns the unit on/off.

## Controls and Connections



- ① **SAT/SUB Input**  
Input for full bandwidth signal. The signal is processed according to the High Pass setting and provided at the SAT/SUB Output.
- ② **SAT/SUB Output (Balanced)**  
Output to connect a satellite loudspeaker system. Signal is processed according to the High Pass setting.
- ③ **LFE/Slave Input**  
Input for LFE signal (Low Frequency Effect)
- ④ **Slave Output**  
Output to next subwoofer (if installed)
- ⑤ **High Pass Selectors**  
Allows cutting off low frequencies of the signal provided to the SAT/SUB Output terminal. If "Flat" is selected, the signal is not limited. If "HP" is selected, signal is cut off at 50 HZ or 80 HZ (according to selection).
- ⑥ **Unbalanced Output**  
Output to connect a satellite loudspeaker system.
- ⑦ **Low Pass Selector**  
Controls the subwoofer low pass frequency continuously variable from 50 to 150 HZ.
- ⑧ **Phase Selector**  
phase can be set to 0° or 180°
- ⑨ **Gain**  
Main volume control
- ⑩ **Mode Selector**  
Select "LFE" for normal and Master use. Select "Slave" setting for second and all following subwoofers.



# Setting up your PX-Sub10A Subwoofer System

## Input Connection Options

Your PX-Sub10A Subwoofer features inputs for two different signal types.

**LFE /Slave Input** Allows connection to a LFE channel (Low Frequency Effect).

**SAT/SUB Input** Allows connection of a full bandwidth signal.

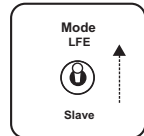
Signals connected via the LFE/Slave Input is processed and reproduced by the subwoofer and routed to the Slave Output for connection to a second subwoofer.

Full bandwidth signals at the SAT/SUB Input are reproduced by the subwoofer and routed to the SAT/SUB and the Slave Output terminals with frequencies cut off according to the High Pass and Low Pass settings. Use the SAT/SUB Output Terminal for connection to a power amplifier or active speakers.

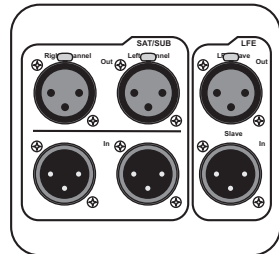
## Basic Set-up and Operation

- 1 Before connecting your PX-Sub10A subwoofer, make sure that the power of all your system components is turned off. Also, turn the main volume control (gain) on your subwoofer all the way down.

- 2 Set the Mode switch on your subwoofer to LFE (Note: if connecting more than one subwoofer, the first subwoofer will be set to LFE. Set the Mode to "Slave" for the second and all subsequent subwoofers.)

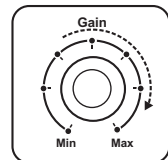


- 3 Connect LFE Channel to the LFE/Slave Input on your subwoofer. Connect full bandwidth signals to the SAT/SUB Input.



- 4 After all instrument, speaker, and component connections have been made, turn on your subwoofer and other powered components.

- 5 Slowly raise the volume on your PX-Sub10A subwoofer to the desired level by adjusting the Gain control.

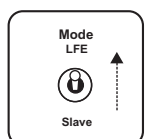


# Setting up your PX-Sub10A Subwoofer System

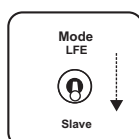
## Multiple Subwoofer Set-up

Connecting multiple subwoofers may be desired in large studios or other spaces featuring difficult acoustic conditions. PX-Sub10A subwoofers can be easily linked by connecting the Slave Output terminal on the first unit to the LFE/Slave Input on the second terminal, and so on.

The first subwoofer will act as the "Master" and should be set up as indicated on page 5 (and the diagrams showing below), with the Mode set to "LFE." Set the mode to "Slave" on each additional subwoofer.



First Subwoofer

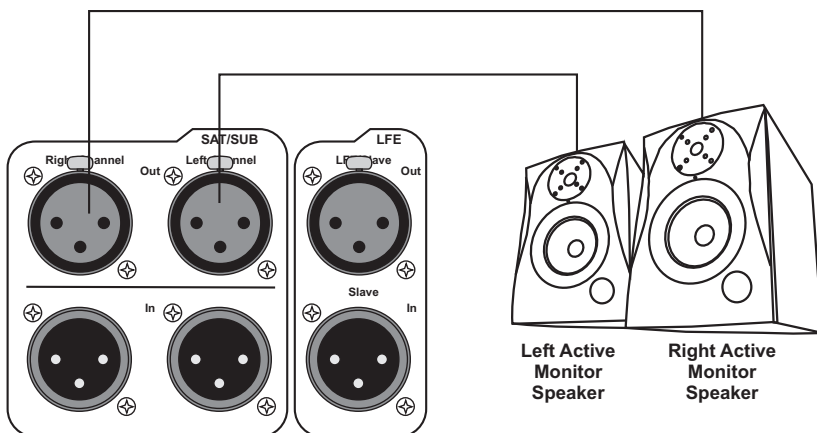


Additional Subwoofer

Note: when using multiple subwoofers, the volume and phase settings of the Master will control all subwoofers.

## Loudspeaker Connection

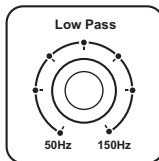
To connect loudspeakers to your subwoofer, use the SAT/SUB Output terminals to connect an XLR cable to the input on your power amplifier. (Be sure to note the manufacturer's instructions and specifications for proper amplifier and speaker set-up).



# Settings and Adjustments

## Low Pass setting

The Low Pass control defines the frequency range of the subwoofer and cuts off frequencies above the selected level. Frequencies above the selected level are routed to the SAT/SUB Output while those below the Low Pass setting are reproduced by the subwoofer and available at the Slave Output Terminal.



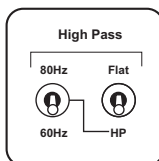
pxels  
PX-Sub10A

The correct setting of the Low Pass control is important to ensure balance between the subwoofer and speakers. Adjust the Low Pass setting to the desired level between 50 and 150 HZ.

Note: Only signals at the SAT/SUB Input are affected by the Low Pass control.

## High Pass setting

The bass capabilities of satellite speakers can potentially overlap the frequency range of your subwoofer. Poor sound quality can result when the system is not matched properly or when using small speakers or low-powered amplifiers. The High Pass filter can be used to limit the bass range of speakers connected via the SAT/SUB Output terminals.



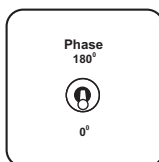
PX-Sub10A subwoofers are equipped with three High Pass settings:

- |              |                                     |
|--------------|-------------------------------------|
| <b>Flat</b>  | No limitation                       |
| <b>50 Hz</b> | Frequencies below 50 Hz are cut off |
| <b>80 Hz</b> | Frequencies below 80 Hz are cut off |

To select the desired High Pass setting, first choose between "Flat" or "HP" (High Pass). If "HP" is selected, choose the preferred cut-off frequency 50 Hz or 80 Hz.

## Phase Setting

- ① Set up your system components as described above
- ② Play a bass-rich soundtrack that includes frequencies in the overlap
- ③ Switch the Phase Setting between 0° and 180° to find which setting provides the most bass.



## Specifications

System:	Active subwoofer
Bass principle:	Bass reflex
Frequency reponse:	30Hz to 200Hz
Inputs	
• LFE/Slave:	XLR
• SAT/SUB:	Right/Left full bandwidth, XLR
Input Impedance	
+ branch:	20K Ohm
- branch:	10K Ohm
Sensitivity:	75mV <sub>RMS</sub> to 5V <sub>RMS</sub> , adjustable
Max. input voltage:	8 V <sub>RMS</sub>
Outputs	
• Slave:	XLR
• SAT/SUB:	Right/Left, Highpass filtered, XLR & RCA
Output impedance:	100 Ohm (each branch)
XLR Connector:	Pin 1: 0 / Pin 2 : + / Pin 3 : -
Mode selector:	LFE & Slave
Phase adjustment:	0° / 180°
High pass:	Flat / 60Hz / 80Hz
Low pass:	50 Hz to 150 Hz
Power modes:	On / Auto
Amplifier power:	120W, 4 Ohm
Power Consumption	
• Standby:	<5W
• Max.:	300W
Woofer	
• Cone:	256mm / 10", long throw, paper cone
• Coil:	50mm / 2" voice coil
Dimensions:	360(H) x 330(W) x 450(D) mm 14.2(H) x 13(W) x 16.3(D) inch
Cabinet volume:	29 liters
Weight:	20 Kg
Main:	120V, 50/60Hz 220V, 50/60Hz

## Services

### If your PX-Sub10A 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. Learn More
4. Forum

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.

As soon as 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

11070 Fleetwood Street —Unit F.

Sun Valley, CA 91352; USA

Tel.: (818) 578 4030

Contact: [www.mixware.net/help](http://www.mixware.net/help)

If you are located in Europe

Send the product to:

Sound Service GmbH European  
Headquarter Moriz-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](mailto: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.

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

[www.iconproaudio.com](http://www.iconproaudio.com)





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