

APT20

User Manual



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Introduction

Two channel phantom power supply

The APT20 is phantom power supply unit containing two independent working channels for use with two condenser microphones. It supplies 48V DC to the microphones and routes the signal to a mixer or microphone amplifier.

The connections are performed by using XLR connectors for the in- and outputs and at the back is an IEC power connector with power switch provided for connecting the APT20 to the mains network.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

PLACE THE UNIT ON A STABLE BASE OR MOUNT IT IN A STABLE RACK

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

ONLY CONNECT THIS UNIT TO A MAINS SOCKET OUTLET WITH PROTECTIVE EARTHING CONNECTION



CAUTION – SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to do so.)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2004/108/EC (EMC) and 2006/95/EC (LVD)



WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its working life. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product to your local collection point or recycling centre for electrical and electronic waste. This will make it sure that it will be recycled on an environmentally friendly manner, and will help to protect the environment in which we all live.

CAUTION

The symbols shown are internationally accepted symbols that warn of potential hazards of electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the users manual.



These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturers warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

Chapter 1

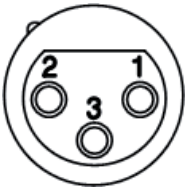
Pin connections and connectors

CONNECTION STANDARDS

The in- and output connections for AUDAC audio equipment are performed corresponding to international wiring standards for professional audio equipment.

XLR:

For balanced microphone input connections



Pin 1: Ground
Pin 2: Signal +
Pin 3: Signal -

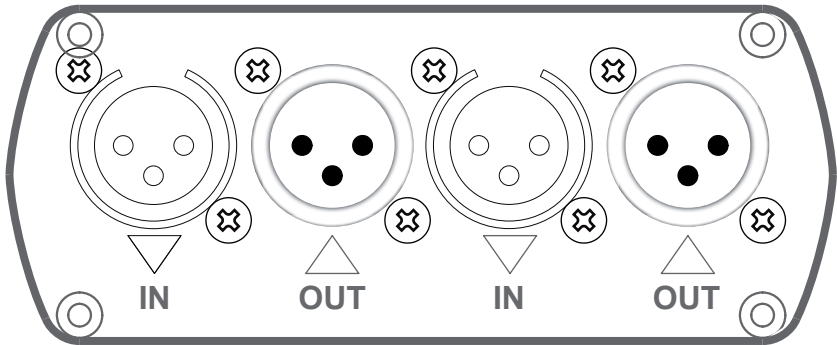


Pin 1: Ground
Pin 2: Signal +
Pin 3: Signal -

Chapter 2

Overview APT20

Front panel



The front panel of the APT20 contains all connections for connecting two condenser microphones and routing their signal to a mixer or microphone amplifier

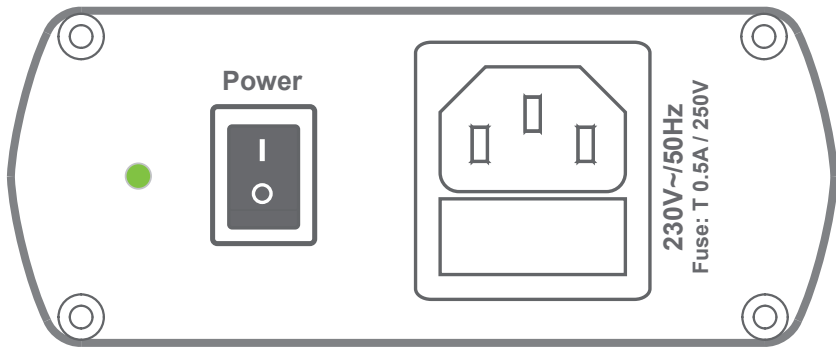
1) XLR input connectors:

The condenser microphones should be connected to the input XLR connectors. The input XLR connectors are 3-pin Female XLR connectors

2) XLR output connectors:

The microphones output signals will be available at these output XLR connectors. These outputs should be connected to the mixer or microphone pre-amplifier. The output XLR connectors are 3-pin male XLR connectors.

Rear panel



The rear panel of the APT20 contains the power switch, mains power inlet and power indication LED.

1) Power switch:

By toggling this switch, the power for the APT20 can be switched ON and OFF. The power LED will illuminate when the power is switched ON.

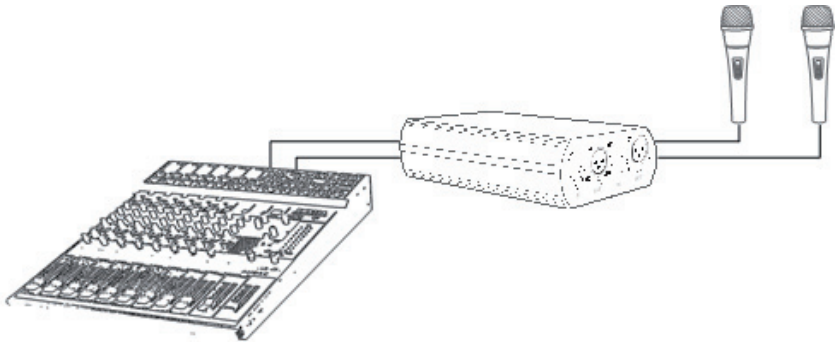
2) IEC Mains power inlet:

The mains power supply (230V AC / 50Hz) has to be applied to this AC power inlet. The connection is made by an IEC power connector and is fitted with a fuse. When replacing the fuse, make sure that the value of the replacement fuse matches the value of the original fuse. (T0.5A/250V)

Chapter 3

APT20 Quick start guide

This chapter guides you through the setup process of a basic project with one APT20 phantom power supply, two condenser microphones and a mixer or microphone amplifier.



Overview of the APT20 setup

1) Connecting the APT20

Connect the condenser microphones to the Female XLR input connectors on the APT20, and connect your mixer or microphone amplifier to Male XLR output connectors. Connect the APT20 by using an IEC power lead to the mains network.

2) Turn the device ON

Turn the device on by toggling the power switch to the “I” position. The power indication LED will illuminate in Green when the device is powered up.

3) Ready

48 Volts phantom power is now delivered to your condenser microphones and the signal coming from the microphones is available on the Male XLR output connectors. Your system is now working properly and ready for use.

Chapter 4

Additional information

Technical specifications

Peripheral

Inputs	2 x Microphone input
Outputs	2 x Microphone output

Connectors

Microphone input	3–Pin Female XLR
Microphone output	3–Pin Male XLR

Power	IEC Mains connector with fuse (Fuse type: T0.5A/250V)
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Specifications

Phantom power	48 Volt
THD+N	< 0.0005 %
Signal / Noise	> 90 dB
Frequency response	20 Hz – 20 kHz
Max. Power consumption	3 Watt

Other

Power supply	230V AC / 50 Hz
Weight	0.490 Kg
Dimensions	110 x 44 x 160 mm
Accessories included	IEC mains connection cable
Shipping weight & volume	0.790 Kg – 0.0022 Cbm