

Quick Start Guide



PLEASE NOTE:

This quick start guide is an overview to get you up and running quickly and easily. It contains basic information required to operate the U500DC.

It is not a substitute for reading the manual, that contains lots of important information with regards to safety and setup requirements. Please take time to read the complete manual and familiarise yourself with its content. For any questions please contact us, we would love to hear from you.

The U500DC has 5 different connection types on the rear panel:



- A** C13 IEC AC Mains connection (x1)
- B** XLR balanced signal inputs (Female x2)
- C** RCA unbalanced signal Inputs (Female x2)
- D** Binding post loudspeaker outputs (x4 pairs - 2 per channel for bi-wiring)
- E** Remote Trigger (x2 3.5mm Jack plugs wired in parallel)

Positioning

Please ensure there is sufficient ventilation around the U500DC at all times.

DO NOT PLACE THE UNIT IN ENCLOSED SPACES OR COVER ITS VENTILATION HOLES AT ANY TIME.

Power

An appropriate C13 IEC mains connector must be fitted to the unit to suit the available mains supply voltage and according to the requirements as stipulated on the chassis rear voltage label. The correct IEC is supplied in the box with the unit. This unit must be earthed.

Use the mains rocker switch, on the rear of the unit, to turn the unit on/off. Use the front standby switch to put the unit out of, or into standby mode. Please note: There is a short delay upon using the standby switch. The U500DC can also be put in and out of standby with DC signals on the remote trigger connectors. The amplifier will accept voltages from 5-12v. Looping this connection out to other U500DC's is also possible for power sequencing of other units in the system.

Timbre

For those wanting a more vintage type of sound delivery a "TIMBRE" switch on the rear changes the input circuits from "PURE" to "VINTAGE" to operate more like traditional class AB amplifiers.

Connections

The U500DC is equipped with binding posts that can accept bare wires, banana plugs, or spade connections. There are 2 pairs of connectors for each output channel to allow bi-wiring (separate tweeter/woofer connections if desired). The Red binding posts are positive (+) voltage, and the Black binding posts are negative (-) voltage; they should be connected to the red and black or + and - connectors on the loudspeaker.

PLEASE NOTE: The minimum nominal impedance of loudspeakers that can be connected to the U500DC is 4 ohms. Driving loads with a nominal impedance below 4 ohms is not recommended as it may cause overheating but driving speakers with 2 ohm impedance dips that only occur at specific frequencies will not cause any problems. The U500DC remains stable into any load including a dead short, however, shutdown protection will occur if the output current exceeds 35A, which is highly likely at impedances below 2 ohms.

The U500DC can accept balanced XLR (recommended) or unbalanced RCA input signals. For reference when using balanced XLR signal cables the pin configuration is as follows: Pin 1: Ground | Pin 2: Signal Positive + | Pin 3: Signal Negative -

Always make sure that the U500DC is powered off from the AC mains supply when connecting/disconnecting any loudspeaker or signal cables. Always make sure that partnering equipment (preamplifier/DAC etc) are also set to minimum volume before any powering up or down. The U500DC does have protection for any startup noises, but it's always good practice to set the volume to minimum on partnering equipment upon power sequencing.



DECLARATION OF CONFORMITY

We, the manufacturer:

**XTA Electronics Ltd
(TRADING AS MC² Audio, Ultrafide)
Units 6-7 Kingsgate
Heathpark Industrial Estate
Honiton, Devon
England
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acknowledge our responsibility and self-certify the following products:

Kind of equipment: Audio amplifier
Commodity Code: 8518400090
Type Designation: U500DC
and all OEM/variants of this model

are manufactured in accordance with the following norm(s) or document(s): **EMC Directive 2014/30/EU (CE and UKCA)**, in compliance with the

Technical Regulations: EN55032:2015 (Emissions)
EN55032:2017 (Immunity)

and in accordance with the: **Low Voltage Directive 2014/35/EU (CE and UKCA)**
in compliance with the following norm(s) or document(s):

Technical Regulations: EN/IEC62368-1:2020 (Audio, Video & Communication Safety)

and in accordance with the **Directive 2011/65/EU** on the restricted use of certain Hazardous Substances in Electrical and Electronic Equipment (**RoHS2**). We certify that the above-mentioned products are deemed compliant according to the details given in the directive.

Signed:

Name: Alex Cooper
Position: Research and Development Manager
Date: May 2022