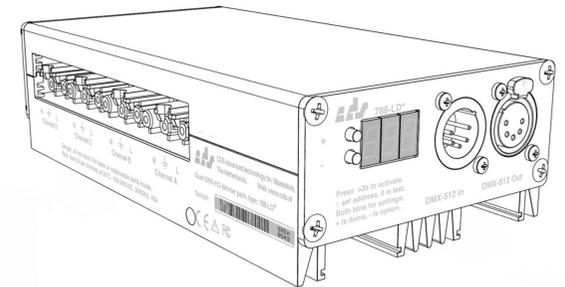


788 LD+



LanBox Products 788-LD+

**Quad 5 Ampere DMX512
Dimmer Pack**

December 2011

LanBox[®]
Products

Safety instructions

- The 788-LD+ is grounded through the power cord. To avoid electric shock, connect the power cord into a properly wired receptacle where earth ground has been verified by a qualified service person.
- To avoid personal injury and warrant proper operation, do not remove covers or panels from the 788-LD+.
- Do not use the 788-LD+ in humid, more than 90% RH environments.
- If the 788-LD+ must be mounted on a location where it could be potentially hazardous if the mounting would get loose, additional precautionary measures should be taken. Use the included safety steel!

Features

- Four independent dimmer / switch channels, each channel up to 5 Amp output.
- 5 pole XLR connectors, conform USITT DMX.
- 0 to 100% dimming or on/off switching channels.
- 16bit resolution possible.
- Controllable by any DMX-512 light controller.
- Short circuit and overload protected without fuses.
- Suited for inductive, ordinary and halogen loads.
- Complies to "Isolated DMX512-A" and DMX-512 USITT 1990.

Installation

The 788-LD+ can be placed on floor or mounted on a truss with the included Velcro hook and loop straps. Always use the included safety steel when mounting on a location where it could be potentially hazardous!

Connect your fixtures with the included GST18-3 connectors, and connect the mains cable to a 16A fused main connection with safety ground. Be sure the main voltage is between 100 and 240 Volt, 50 or 60 Hz. Always use the safety ground when connecting the GST18-3 connectors and be careful not to mix up the L (Phase) and n (Null) wire. To remove a GST18-3 connector, press up the clip using a screwdriver.

Use the 5- pin DMX-512 connectors to connect the DMX cables. Use an adapter if you use 3-pin cables. Using a terminator at the end of your DMX line is recommended. The DMX activity indicator (the rightmost decimal point on the LED display) will blink if DMX is received. If the indicator is Off, no signal is received. If the indicator is permanently On, a signal is received but not correct. Check your cables if this is the case. The 788-LD+ has isolated DMX connections. Be sure that the shield of the DMX cable is only connected to pin 1 of the XLR (NOT to the housing, ground of the XLR).

LED Display

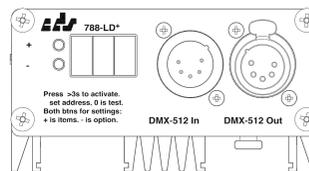
The LED Display automatically switches off after 25 seconds of inactivity. When one of the buttons is pressed it will switch on and show (alternating) the base DMX address and each Channel's temperature in 10°C (so a 2 means 20-29°C).

Setting the DMX address

Press the + or – button for at least 3 seconds. The display should show the blinking DMX base address. Adjust with the + and – buttons. DMX editing mode will exit automatically after 5 seconds of inactivity. In normal Resolution Mode, the LD788+ will occupy 4 DMX Channels, in High Resolution Mode 8.

Test Mode

To put the LD788+ in test Mode, set the DMX start address to 0. The 4 channels should fade in and out one by one.



Channel Modes

Each Channel has 4 different modes: Dim, Switch, Off and On. To change the Channel mode, press both the + and – button for 3 seconds. Use the + button to select a Channel, use the – button to toggle the Mode (d = Dim, S = Switch, 1 = On, 0 = Off). By default, all Channels are in Dim Mode.

High Resolution

The 788-LD+ can also operate in 16bit High Resolution Mode. In this mode, 0 – 100% can be achieved in 65536 steps. To put the 788-LD+ in High Resolution Mode, press both the + and – button for 3 seconds. Use the + button to select the H. Use the – button to toggle the High Resolution Mode (0 = Off, 1=On). If the 788-LD+ is set to High Resolution Mode, each Channel will use 2 DMX channels and the dimmer pack will use 8!

Overload and short circuit protection

When the 788-LD+ senses a short circuit situation, all outputs are switched off immediately and the display shows a blinking "S". When a Channel is overloaded, this output is switched off and the display shows a blinking Channel letter (a, b, c or d). After the overload situation has been solved, normal operation will resume when the 788-LD+ internal temperature drops below the critical value. A short circuit condition is detected at a current of more than 100A. When switching on cold lights, a current equal to approximately 10 times the regular current will flow for a short period of time. This means that when switching on 4 lights of 1 kW (at 230V), a current of approx. 4 x 40 = 160 Amp will flow, causing the protection mechanism to detect a short circuit and all outputs will be switched off. This can be avoided by pre-heating the fixtures.

Technical specifications

Power supply:	100-240 Vac; 50/60 Hz; 16A
Ambient temperature:	0...+40 Degrees Celsius
Humidity:	30...90% RH
Dimensions:	205 x 105 x 56mm
Output per channel:	max. 5A, @25°C

This device complies with the European low voltage directive and the European EMC directive according to the following standards:

Electrical safety:	EN 60950: 2002
Emission:	EN 55015: 2000 + A1: 2002 + A2: 2002
Immunity:	EN-IEC 61000-6-2: 2001

Due to low frequency harmonics and heavy load fluctuations one must have official approval of the authorities to use this professional device on a public main supply.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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