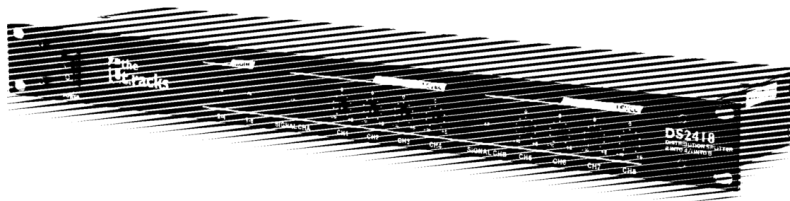




DS 2418
audio splitter



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1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used to distribute incoming audio signals to several device internal outputs. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.



NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

- Two operation modes (2 in 4 & 1 in 8) switchable
- Eight separately controllable outputs
- Two link outputs
- XLR in and outputs
- Efficient circuit design for minimum distortion and lowest noise level
- 19" housing (1 RU), installation depth 12 cm

4 Installation and starting up

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

Rack mounting

The unit has been designed for rack mounting in a standard 19-inch rack; it occupies one rack unit.

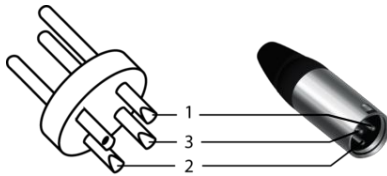
4.1 Pin assignment

You can use XLR connectors with either balanced or unbalanced wiring.

XLR connection for signal in and outputs

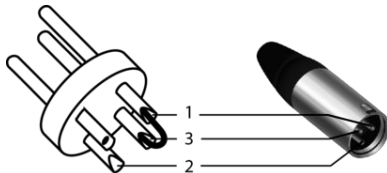
XLR mounting sockets are provided for signal inputs. XLR mounting plugs are provided for signal outputs. Drawings and descriptions explain the pin assignment.

Balanced wiring:



1	Ground, shielding
2	Positive signal (+)
3	Negative signal (-)

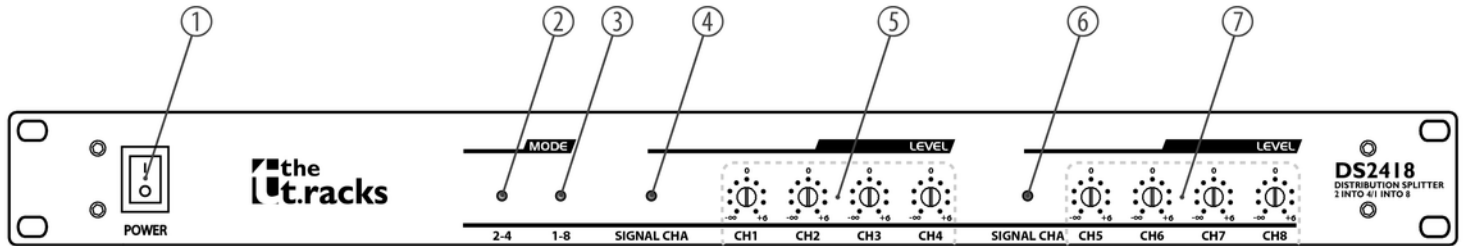
Unbalanced wiring:



1	Ground, shielding
2	Signal
3	Bridged with Pin 1

5 Connections and operating elements

Front panel



1	Mains switch to turn the unit on or off.
2	Indicator LED for operating mode 2-4 In this mode, the audio signals on INPUT CHA and INPUT CHB are distributed to the associated outputs CH1 to CH4 and CH5 to CH8 (stereo operation).
3	Indicator LED for operating mode 1-8 In this mode, the audio signal on INPUT CHA or INPUT CHB is distributed to all outputs (CH1 to CH8, mono operation).
4	Indicator LED SIGNAL CHA This LED lights up when channel A receives an audio signal with a level above 40 mV.
5	CH1 – CH4 Level control for channels 1 to 4. Use these controls to adjust the output signal channel-related in a range of 0 to +6 dB.

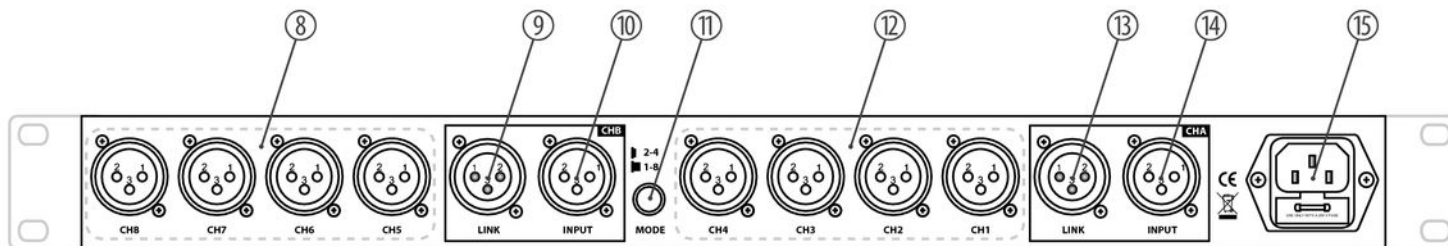
6 Indicator LED **SIGNAL CHB**

This LED lights up when channel B receives an audio signal with a level above 40 mV.

7 **CH5 – CH8**

Level control for channels 5 to 8. Use these controls to adjust the output signal channel-related in a range of 0 to +6 dB.

Rear panel



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8	CH8 – CH5 Channel B signal outputs 8 to 5 (XLR mounting plugs).
9	LINK Use this signal output (XLR mounting plug) to feed the channel B INPUT signal to another splitter or the like.
10	INPUT Signal input channel B (XLR mounting socket).
11	MODE Operating mode switch (pressed: 2 in 4, released: 1 in 8).
12	CH4 – CH1 Channel B signal outputs 4 to 1 (XLR mounting socket).
13	LINK Use this signal output (XLR mounting plug) to feed the channel A INPUT signal to another splitter or the like.

14 **INPUT**

Signal input channel A (XLR mounting socket).

15 IEC chassis connector with fuse holder for operating voltage supply.

6 Technical specifications

Input impedance	10 k Ω (balanced)
Output impedance	47 Ω (balanced)
Maximum input gain per channel	+6 dB
Maximum input level	> 20 dBU
Maximum output level	> 20 dBU
THD+N	< 0.008 %
Dynamic range	> 115 dB
Signal-to-noise ratio	> 100 dB, A-weighted
Frequency response	20 Hz ... 20 kHz (± 3 dB)
Distortion	< 0.03 %
Operating voltage supply	230 V \sim , 50 Hz
Power consumption	< 8 W

Fuse	5 mm × 20 mm, 250 mA, 250 V, slow blow
Dimensions	1 RU in a 19" rack, installation depth 12 cm
Weight	2.5 kg

7 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



