OPERATING MANUAL

DMX Booster/Splitter 3406LC-H RDM Mk1



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SOUNDLIGHT

Thank you for choosing a SOUNDLIGHT device.

The SOUNDLIGHT DMX Splitter/Booster 3406LC-H is a highly sophisticated device, which was designed to buffer and distribute DMX light control signals complying with USITT DMX-512/1990 or DIN 56930/2, ANSI E1-11 DMX512-Aand ANSI E1-20 dMX RDM, respectively. The unit can be used with all standard light control systems.

Its special advantages include:

- universal protocol decoding Recognizes all variants of the protocol as defined by USITT/ESTA/DIN and displays the number of DMX channels received;
- future-proof
 The unit is software controlled an can be adapted to any change in protocol definition;
- unlimited channel count
 The number of DMX channels sent or received does not affect the operation of the DMX splitter/booster
 3406LC-H, since the unit can handle all transmission lengths.
- cost-effective
 The SOUNDLIGHT 3406LC-H is a cost-effective solution for many purposes.

VERSIONS

The booster / splitter family comprises of these products:

3401A-EP 3401B-H 3402A-EP 3402A-EPD 3402A-FG 3402A-FGD 3402B-H	printed circuit board, 1x DMX IN, 1x DMX OUT, opto-isolated line booster DIN rail mount RDM compatible Line Booster, opto-isolated printed circuit board 1x DMX IN, 2x DMX OUT opto-isolated in/out printed circuit board 1x DMX IN, 2x DMX OUT opto-isolated in/out, with Display stand alone unit 1x DMX IN, 2x DMX OUT opto-isolated stand alone unit 1x DMX IN, 2x DMX OUT opto-isolated, with Display DIN rail mount RDM compatible splitter, 2x DMX RDM OUT, opto-isolated, 24VDC
3404A-H 3404B-H 3404C-H	DIN rail mount unit,1x DMX IN, 1x DMX THRU, 4x DMXOUT (common isolation) DIN rail mount unit,1x DMX IN, 1x DMX THRU, 4x DMXOUT (individually buffered/isolated) DIN rail mount unit,1x DMX IN, 1x DMX THRU, 4x DMX RDM OUT (individually buffered/isolated)
3405A-EP 3405A-FG 3408A-FG 3410A-FG	printed circuit board 1x DMX IN, 1x DMX THRU, 5x DMX OUT opto-isolated 19" rack mount unit 1x DMX IN, 1x DMX THRU, 5x DMX OUT opto-isolated, with Display 19" rack mount unit 1x DMX RDM IN, 1x DMX THRU, 8x DMX RDM OUT opto-isolated, with Display 19" rack mount unit 1x DMX IN, 1x DMX THRU, 10x DMX OUT opto-isolated, with Display

NOMENCLATURE

This document uses these indicators:



DANGER! May cause harm to user and/or equipment

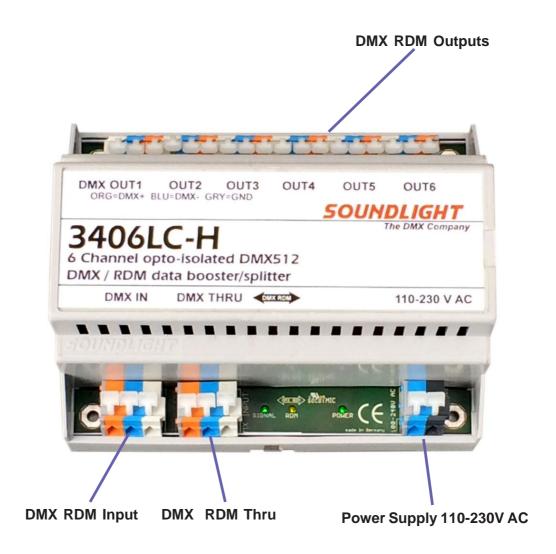


INFO: How to setup your device



INFO: Statusinformation





CONNECTORS

The booster/splitter is using cage clamp terminals for both, input and output. This type of connector is very reliable, ruggedized and easy to use. Use a flat blade screwdriver only. To open, press lever, insert cable and release. For stranded wires, we suggest to use (insulated) ferrules.

The DMX data outputs are optically isolated in respect to to the DMX signal input.

DMX+(normal)

Live 110-230V AC

Neutral

110-230V AC 50Hz approx. 4W

DMX INP Pin 1 Pin 2 Pin 3	UT grey blue red	Signal input for control signals according to USITT DMX512/1990 or DIN 56930-2 screen / GND DMX - (inverted) DMX + (normal)
DMXTHR Pin 1 Pin 2 Pin 3	grey blue red	unbuffered or active bufferd output (depending on jumper setting) screen / GND DMX - (inverted) DMX + (normal)
DMX OUT Pin 1 Pin 2		6 outputs, galvanically isolated from the DMX signal input screen / GND DMX - (inverted)



Pin 3

Pin 1

Pin 2

red

blue

black

POWER SUPPLY

POWER SUPPLY



The power supply is 110-230V AC 50/60 Hz. Mains voltage can be dangerous to your health; connections must be carried out by a qualified technician only. Make sure the unit has been disconnected from mains before making any other connections to the booster/splitter. Verify before re-applying power.

SIGNAL INDICATORS



Signalling is provided for user guidance.

The state of the booster/splitter interface is signalled by a 3 LED indicators.

Color Labelling Description

green SIGNAL Valid DMX signal detected yellow RDM Valid RDM command detected

green POWER Power supply present

TECHNICAL DATA

Dimensions 114mm (W) x 67mm (H) x 114 mm (D)

Supply: 110/230VAC 50/60 Hz (Widerange 90-265V) approx. 4 W

DMX IN: 1 Unit Load

DMX OUT: 6 outputs, buffered, individually optically isolated to input

DMX Protocol: USITT DMX512/1990, DIN56930-2, ANSI E1-11 DMX512-A, ANSI E1-20 DMX RDM

RDM device: Transparent Device, no UID

Display: 3 LED indicators
Operating Temperature: 0C...+50C
Weight: 220 g

Mounting: on 35mm DIN rail, width 6.5 units

IP rating: IP20, for dry rooms only

Order No.: 3406LC-H

DMX RDM PROPERTIES

The 3406LC-H can process DMX512, DMX512-A and/or DMX RDM telegrams. In respect to RDM traffic, the 3406LC-H acts as "invisible" device, which cannot be discovered or addressed. Please refer to the 3406LC-H product page (see below) for more information regarding RDM properties.

CE CONFORMITY



This DMX splitter/booster is microprocessor controlled and uses high frequency (16 MHz quartz). The interface has been tested in the EMC lab to comply with EN55015.

To ensure the best performance regarding radiated and conducted emissions please make sure that shielded data cable is used and the shield is connected properly to the GND pin. Shield must never make contact to other signal lines.

DISTURBANCES

If a trouble-free operation cannot be guaranteed, disconnect the booster/splitter and secure it against unwanted operation. This is especially necessary, when

- the unit has visible damages;
- the unit does not operate;
- internal parts are loose;
- connection cables show visible damages.



LIMITED WARRANTY

This instrument ist warranted against defects in metarials and workmanship for a period of 24 month, beginning with the date of purchase. The warranty is limited to repair or exchange of the hardware product; no further liability is assumed. SOUNDLIGHT is not responsible for damages or for loss of data, sales or profit which arise from usage or breakdown of the hardware product. In Germany, SOUNDLIGHT will repair or replace established defects in hardware, provided that the defective part is sent in, freight paid, through the responsible dealer along with warranty card and/ or sales receipt prior to expiration of warranty.

Warranty is void:

- when modifying or trying to repair the unit without authorisation;
- modification of the circuitry;
- damages by interference of other persons;
- operation which is not in arccordance with the manual;
- connection to wrong voltage or current;
- misuse.

SERVICE

There are no parts within the booster/splitter 3406LC-H which require the user's attention. Should your unit require servicing, please send it to the factory, freight paid.

INTERNET-HOTLINE

Please check our internet domain http://www.soundlight.de for new versions, updates etc. If you have any comments which may be worth considering, please send a message to info@soundlight.de.

PRODUCT INFO

The product info page can be found at: www.soundlight.de/produkte/3406lc-h Foreign language product manauls are available at: www.manuals.soundlight.de

END-OF-LIFETIME



When the end of the lifetime of this product has been reached, ist must be disposed of properly. Electronic devices must not be placed in domestic waste. They are to be collected by public recycling systems. Consult your local authorities for more information regarding the whereabouts of your next collection station. SOUNDLIGHT is a WEEE registered company (DE58883929).

