## **OPERATING MANUAL**

### DMX / PWM Decoder 3633PWM-H Mk1 RDM





(C) SOUNDLIGHT 1996-2015 \* ALL RIGHTS RESERVED \* NO PART OF THIS MANUAL MAY BE REPRODUCED, DUPLICATED OR USED COMMERCIALLY WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER \* ALL STATEMENTS WITHIN THIS MANUAL HAVE BEEN CHECKED CAREFULLY AND ARE BELIEVED TO BE ACCURATE, HOWEVER SOUNDLIGHT DOES NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS. \* THE USER HAS TO CHECK THE SUITABILITY OF THE EQUIPMENT FOR THE INTENDED USE. SOUNDLIGHT EXPRESSLY EXCLUDES ANY RESPONSIBILITY FOR DAMAGES - DIRECT OR INDIRECT - WHICH MAY OCCUR DUE TO MISUSE, UNPROPER INSTALLATION, WRONG OPERATING CONDITIONS AND NON-COMPLIANCE TO THE INSTRUMENT'S INSTRUCTIONS, AS WELL AS IGNORANCE OF EXISTING SAFETY REGULATIONS.

SOUNDLIGHT The DMX Company Bennigser Str. 1 D-30974 Wennigsen Tel. 05045-912 93-11

KOHS

compliant

#### Thank you for choosing a SOUNDLIGHT device.

The SOUNDLIGHT DMX PWM Converter 3633PWM-H is an intelligent converter accepting drive signals according to USITT DMX-512/1990, DIN 56930-2, ANSI E1-11 DMX512A and ANSI E1-20 DMX RDM. The DMX signal is converted to a PWM output signal to drive voltage driven LEDs or LED arrays using a Common Cathode topology. 3 individual outputs are driven by 3 DMX addresses. The interface can be used with all standa rd light control systems. Its special advantages include:

- **universal protocol decoding** Recognizes all variants of the protocol as defined by USITT / ESTA / ANSI/DIN
- **future-proof** The unit is software controlled an can easily be adapted to any change in protocol definition.
- **high linearity** As the unit accepts and outputs data in digital format, excellent linearity chracteristics result.
- simple supply The power supply is 12-24V DC
- signal loss
   In the case of a loss of the drive signal the last setting will remain intact.
- **cost-effective** The SOUNDLIGHT 3633PWM-H is a cost-effective solution for many purposes.

## **APPLICATIONS**

The converter 3633PWM-H is intended for all control applications to drive voltage controlled loads, e.g. constant-voltage driven LEDs. Each output can be loaded with 24V / 4 A / 100W@24VDC (absolute maximum rated values). The unit is well suited for all applications on stage, for TV background lighting, or for architectural lighting purposes. The dimming range is 0% to 100%.

The 3633PWM-H is best suited to drive common cathode LED arrays or LED tapes.

### UNPACKING

Please unpack carefully and check that all items are intact. When leaving our factory, the interface has been in good condition. In case of damage during transport please notify the carrier immediately.

When unpacking, you should identify these items:

- the interface 3633PWM-H
- this manual



# CONNECTORS

The decoder 3633PWM-H comprises of these connectors:

#### CN1 POWER SUPPLY 24VDC

orange +24V DC blue 0V DC (GND)

#### CN2 DMX Data Input

1	grey	GND, Screen
2	blue	DMX Drive Signal -
3	orange	DMX Drive Signal +

#### CN3 DMX Data Output

1	grey	GND, Screen
2	blue	DMX Drive Signal -
3	orange	DMX Drive Signal +

#### CN4 PWM OUTPUT

- 1 blue Common GND
- 2 grey CH 1: Drive Output
- 3 blue Common GND
- 4 grey CH 3: Drive Output
- 5 blue Common GND
- 6 grey CH 3: Drive Output

Outputs are not short circuit protected and must be fused with appropriate fuse 4A fast blow.

Refer to the drawing for the location of the connectors. To open clamp, press lever. Insert wire, then release lever. Please refer to wiring intructions on page 5/6.

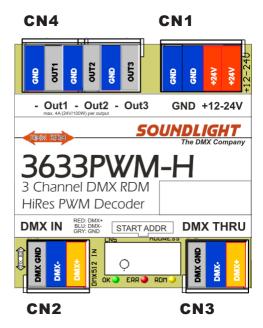


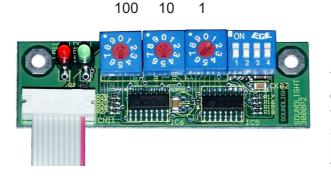
Status signalling is with LED indicators:

green: DMX of	data reception OK
red:	ERROR
	normally off
	blinks at transmission errors or at loss of signal
yellow/blue:	RDM
	lights when RDM programming active. Address switches are locked when RDM programming is active. See chapter "RDM" for more info.

Red and green LEDs blink alternatively four times when programming data within the 3633PWM-H (e.g. start address, HOLD mode or change of DMX personality). No action will be taken when start address setting is locked from RDM. See next chapter how to re-enable programming.







# DMX START ADDRESS

To program a DMX start address, simply set the desired start address. Wait some seconds until the unit recognizes and programs the address setting. The programming cycle will be indicated by the the red and green LED flashing alternatively four times.

#### **IMPORTANT NOTE:**

When programming a DMX start adress, changing the DMX personality, the HOLD mode or other properties via RDM access, the external address switches are becoming **disabled**. To re-enable the DMX start address switches, temporarily set any adress from 900 ... 999 (simply set the "hundreds" selector to "9"). This will re-enable the address switches and override RDM settings.

### **DIP-SWITCHES**

The DMX personality (mode of operation) and the output behaviour is set using the four DIP-switches of the start address board 3000P (or functions F1...F4 using the start address board 3003P):

DIP SWITCH 1,2	<b>DMX HOLD MODUS</b> Mode 0: no HOLD, all output Mode 1: no HOLD, all output Mode 2: DMX HOLD ("last loo	s ON	<b>S1</b> OFF OFF ON	<b>S2</b> OFF ON OFF
DIP-Switch 1	DMX HOLD OFF= see DIP switch 2 ON = DMX HOLD at data lo	DSS		
DIP-Switch 2	OUTPUT LEVEL AT NON- OFF= all outputs set to OFF ON = all outputs set to ON	at data loss		
DIP-Switch 3,4	<b>DMX PERSONALITY</b> Personality 1: S3=OFF Personality 2: S3=OFF Personality 3: S3=ON Personality 4: S3=ON The DMX Personality can be	S4=OFF S4=ON S4=OFF S4=ON set using DMX	3-CH mode + 3-CH mode lin 1-CH mode (d	



## DRIVE CHARACTERISTIC

The output drive characteristic follows a quasi logarithmic law adapted to the human's eye sensitivity. The output characteristic can be changed to linear mode to match other commercially available low cost products.

# **CONNECTING LEDs**

You may connect <u>voltage controlled</u> LEDs directly. Voltage controlled LEDs are LED assemblies, which may be connected to a specified voltage (24V DC) directly and incorporate measures to limit the operating current (e.g. TRIDONIC LED-Strips, OSRAM LINEARLIGHT FLEX). LEDs requiring a <u>current control</u> (e.g. LUXEON light sources, OSRAM Golden Dragon etc.) must be fitted with additional current limiting circuitry and are NOT suited for direct connection to the 3633PWM-H decoder.

Common LED terminal is the *negative pin* of the supply voltage ("Common Cathode"). As high currents are present, carefully check the wiring instructions and use sufficient wire gauges. Outputs are *not short circuit protected* and must be fused externally.

#### WIRING INSTRUCTIONS

Please note:

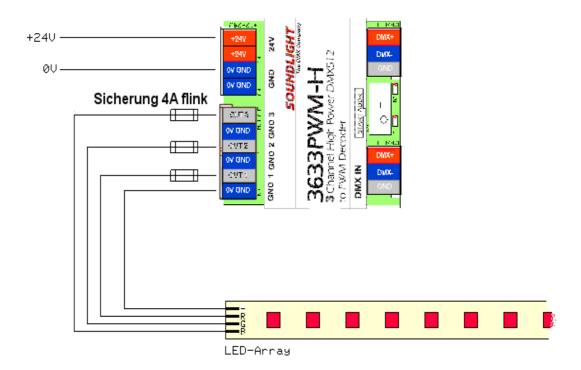
At full load, the total operating current is in excess of the rating of a single output cage clamp connector. Thus multiple GND clamps are provided to distribute the load to multiple connectors.

- All GND terminals (power supply and LED drive outputs) are interconnected. Use <u>one separate</u> <u>GND wire per output</u> and per power supply.

- Power supply voltage must match required LED suply voltage. Allowed voltage is 12..24VDC.

- The electronics can be fed separately (+12...+24VDC) to allow operation even when the LED PSU has been shut down.

- Insert <u>external fuses 4A fast blow</u> to prevent short circuit conditions.





## TECHNICALDATA

Dimensions: Power supply: DMX IN: DMX OUT: DMX data slots: PWM Out: PWM resolution: PWM characteristic Max. output current: Output frequency: Output Topology: Protection: Operating temperature: Order code: 66mm (W) x 90mm (D) x 66mm (H) 24V DC 1 Unit Load fed-thru 3(4) 12/24V pulse signal 0%-100% 12Bit quasi-logarithmic / linear 4 A per output (must be externally fused: 4A fast blow) approx. 490 Hz Common Cathode (-) IP20 - for dry rooms only 0-50 C 3633PWM-H



The 3633PWM-H is compatible with ANSI E1-20 DMX RDM Version 1.0. Please note some special properties of devices complying with DMX RDM:

- DMX HOLD properties are not supported by RDM standard ANSI E1-20. A factory specific command (DMX HOLD) has been added to compensate these restraints. Use parameters 0...2 to set the desired HOLD mode:

0: no HOLD, all outputs OFF upon loss of signal

1: no HOLD, all Outputs ON upon loss of signal

2: DMX HOLD (last look remains active)

- Setting the DMX personality reflects setting of DIP switches 3 and 4 (and vice versa).

#### Start adress setting with RDM::

Please note that the start address switches get locked as soon as settings have been changed using DMX RDM. This prevents the decoder from reading start address switch data again. To unlock the switches, set the hundreds position to "9" temporarily. This will unlock the switches.

Additional RDM function allow to:

- read the DMX slot labels
- read and modify the device label
- identify the decoder
- read device hours and device initalizations
- read, activate or deactivate the DMX HOLD mode
- monitor DC supply voltage



Recognizing the 3633PWM-H using Wireless DMX RDM (Screenshot: CRMX Nova Software)

[Full Discovery]       [Add. Discovery]       Status: Idle       Image: Construction of the image: Construle of the image: Construction of the image: Co	Device Summary CV DRU Device Info 3613 PWM CV DRU RDM Protocol Version: Device Model ID: Product Category: Software Version ID:	MX Patch Grid  Monitor Devices  Advanced RI VER Interface  10100  3613PWM CV DRIVER Interface  Specialized LED dimmer	DM Settings
RT EY: Default	Device Info 3613 PWM CV DRI RDM Protocol Version: Device Model ID: Product Category: Software Version ID:	VER Interface 0100 3613PWM CV DRIVER Interface Specialized LED dimmer	
DER:       Ascending         2613PWM CV DRIVER Interface       Save Changes         10:       UDI: S34C5613002E         10:       Device Info         11:       Device Model ID:         12:       DMX Footprint:         14:       Device Model ID:         15:       Software Version ID:         16:       UDI:S12 FootPrint:         17:       Software Version ID:         18:       UDI:S12 FootPrint:         19:       Software Version ID:         10:       1:         10:       Software Version ID:         10:       1:         10:       Software Version ID:         10:       1:         10:       Software Version ID:	Device Info 3613 PWM CV DRI RDM Protocol Version: Device Model ID: Product Category: Software Version ID:	VER Interface 0100 3613PWM CV DRIVER Interface Specialized LED dimmer	
3613PWM CV DRIVER Interface       Save Changes       Refrest         301000       Desc: Specialized LED dimmer       0100       Device Model ID:       3613PWM CV DRIVER Interface         DMX Start: 1       Device Model ID:       3613PWM CV DRIVER Interface       Product Category:       Specialized LED dimmer         Software Version ID:       V 1.1       DMXS12 FootPrint:       S         Current DMXS12 FootPrint:       S       Current DMXS12 FootPrint:       S         Sub Device Count:       1 - 3-ch mode, 1-2       - 4-ch w/ Master       Marketer         DMXS12 Start Address:       2 - 4-ch w/ Master       Marketer       Marketer         Sub Device Count:       1 - 1-ch mode, 1-3       Sensor Count:       1         Device Label:       3613PWMH 3-channel PWM decoder       Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26       Supported Parameters:       DEVICE, INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, DESCHIPTION, COMMS_START_SOLDEXES, STATUS, MESSAGES, STATUS, MESSAGE	3613 PWM CV DRI RDM Protocol Version: Device Model ID: Product Category: Software Version ID:	0100 3613PWM CV DRIVER Interface Specialized LED dimmer	Save Changes Refresh
IUD: 534C3613002E         ID: Specialized LED dimmer         ID: DMX Start: 1         ID: DMX Footprint: 4         Product Category:         Specialized LED dimmer         Software Version ID:         V 1.1         DMXS12 Footprint:         Software Version ID:         V 1.1         DMXS12 Footprint:         Software Version ID:         V 1.1         DMXS12 Footprint:         Supported DMXS12 Footprint:         Supported Parameter Count:         Supported Parameter Count:         Supported Parameters:         DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETERS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, COMPARE VERSION_LABEL, STATUS_MESSAGES, SOFTWARE VERSION_LABEL, STATUS_MESSAGE, STATUS_MESSAGES, SOFTWARE VERSION_LABEL, STATUS_MESSAGES, STATUS_MESSAGES, S	RDM Protocol Version: Device Model ID: Product Category: Software Version ID:	0100 3613PWM CV DRIVER Interface Specialized LED dimmer	Save Changes Refresh
Desc: Specialized LED dimmer   DMX Start: 1   DMX Footprint: 4     Product Category:   Specialized LED dimmer   Software Version ID:   V 1.1   DMXS12 FootPrint:   S   Current DMXS12 Personality:   2 - 4-ch w/ Master   DMXS12 Start Address:   2 - 4-ch w/ Master   Sub Device Count:   4 - 1-ch mode, 1-23   Sensor Count:   1   Device Label:   3613PWM-H 3-channel PWM decoder   Manufacturer Label:   SUpported Parameter Count:   26   Supported Parameters:   DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPORTED_PARAMETERS, PARAMETERS, PARAMET	Device Model ID: Product Category: Software Version ID:	3613PWM CV DRIVER Interface Specialized LED dimmer	
DMX Start: 1   DMX Footprint: 4     Product Category:   Specialized LED dimmer   Software Version ID:   V 1.1   DMXS12 FootPrint:   5   Current DMXS12 Porsonality:   2 - 4-ch w/ Master   DMXS12 Start Address:   2 - 4-ch w/ Master   3 - 2-ch mode, 1:ED   DMXS12 Start Address:   3 - 2-ch mode, 1:-3   Sensor Count:   1   Device Label:   3 - 613PWM-H 3-channel PWM decoder   Manufacturer Label:   Soupported Parameter Count:   26   Supported Parameters:   DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, PARAMETERS, PARAMETE	Product Category: Software Version ID:	Specialized LED dimmer	
DMX Footprint: 4   Product Category: Specialized LED dimmer   Software Version ID: V 1.1   DMX512 FootPrint: S   Current DMX512 Personality: 2 - 4-ch w/ Master   DMX512 Start Address: 2 - 4-ch w/ Master   DMX512 Start Address: 2 - 4-ch w/ Master   DMX512 Start Address: 2 - 4-ch w/ Master   3 - 2-ch mode; 3 - 2-ch mode;   3 - 2-ch mode; 4 - 1-ch mode;   1 - 3-ch mode; 1   Device Label: 3613PWM-H 3-channel PWM decoder   Manufacturer Label: SOUNDLIGHT The DMX Company   Supported Parameter Count: 26   Supported Parameters: DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER_DESCRIPTION, COMMAS_STARTS, QUEUED_MESSAGE, STATUS_MESSAGES,	Software Version ID:	Specialized LED dimmer	
Software Version ID:   V1.1   DMX512 FootPrint:   5   Current DMX512 Personality:   2 - 4-ch w/ Master   I - 3-ch mode, 1 LED   2 - 4-ch w/ Master   DMX512 Start Address:   2 - 4-ch w/ Master   3 - 2-ch mode, 1 LED   2 - 4-ch w/ Master   3 - 2-ch mode, 1 -3   Sub Device Count:   3 - 2-ch mode, 1-3   Sensor Count:   1   Device Label:   3613PWM-H 3-channel PWM decoder   Manufacturer Label:   SoUNDLIGHT The DMX Company   Supported Parameter Count:   26   Supported Parameters:   DEVICE_INFO, IDENTIFY DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER, DESCRPTION, COMMS_STATUS_MESSAGES, STATUS_MESSAGES, STATUS_MESSAG	Software Version ID:		
DMX512 FootPrint:       5         Current DMX512 Personality:       2 - 4-ch w/ Master         DMX512 Start Address:       1 - 3-ch mode, 1 LED         DMX512 Start Address:       2 - 4-ch w/ Master         Sub Device Count:       4 - 1 - ch mode, 1 - 3         Sensor Count:       1         Device Label:       3613PWM-H 3-channel PWM decoder         Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO_IDENTIFY_DEVICE_DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER_DESCRIPTION, COMMS_STATUS_MESSAGES,	DMX512 FootPrint:		
Current DMX512 Personality: 2 - 4-ch w/ Master DMX512 Start Address: 2 - 4-ch w/ Master DMX512 Start Address: 2 - 4-ch w/ Master 3 - 2-ch mode, 1 LED 2 - 4-ch w/ Master 3 - 2-ch mode, 1 - 3 Sensor Count: 4 - 1-ch mode, 1 - 3 Sensor Count: 1 Device Label: 3613PWM-H 3-channel PWM decoder Manufacturer Label: 3613PWM-H 3-channel PWM decoder Manufacturer Label: SOUNDLIGHT The DMX Company Supported Parameter Count: 26 Supported Parameters: DEVICE_INFO_IDENTIFY_DEVICE_OMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETERS, PARAMETER_DESCRIPTION, COMMS_STATUS_MESSAGES, A		, c	
DMXS12 Start Address:       1 - 3-ch mode, 1 LED         Sub Device Count:       3 - 2-ch mode, -4         Sub Device Count:       1         Device Label:       3613PWM-H 3-channel PWM decoder         Manufacturer Label:       3613PWM-H 3-channel PWM decoder         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO_IDENTIFY_DEVICE_DMX_START_ADDRESS , SOFTWARE_VERSION_LABEL , SUPPORTED_PARAMETERS , PARAMETER_DESCRIPTION , COMMS_STATUS_MESSAGES ,			
DMXS12 Start Address:       Image: Content of the conten		1 - 3-ch mode, 1 LED	
Sensor Count:       1         Device Label:       3613PWM-H 3-channel PWM decoder         Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO_IDENTIFY_DEVICE_DMX_START_ADDRESS , SOFTWARE_VERSION_LABEL , SUPPORTED_PARAMETERS , PARAMETER_DESCRIPTION , COMMS_STATUS_MESSAGE , STATUS_MESSAGE ,		2 - 4-ch w/ Master 3 - 2-ch mode,	
Device Label:       3613PWM-H 3-channel PWM decoder         Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO_IDENTIFY_DEVICE_DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER_DESCRIPTION, COMMS_STATUS_QUEUED_MESSAGE, STATUS_MESSAGES,		4 - 1-ch mode, 1-3	
Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO , IDENTIFY_DEVICE , DMX_START_ADDRESS , SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS , PARAMETER_DESCRIPTION , COMMS_STATUS , QUEUED_MESSAGE , STATUS_MESSAGES ,	Sensor Count:	1	
Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS, SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER_DESCRIPTION, COMMS_STATUS, QUEUED_MESSAGE, STATUS_MESSAGES,	Device Label:	3613PWM-H 3-channel PWM decoder	
Supported Parameters: DEVICE_INFO , IDENTIFY_DEVICE , DMX_START_ADDRESS , SOFTWARE_VERSION_LABEL , SUPPORTED_PARAMETERS , PARAMETER_DESCRIPTION , COMMS_STATUS , QUEUED_MESSAGE , STATUS_MESSAGES ,	Manufacturer Label:	SOUNDLIGHT The DMX Company	
SOFTWARE_VERSION_LABEL, SUPPORTED_PARAMETERS, PARAMETER_DESCRIPTION, COMMS_STATUS, QUEUED_MESSAGE, STATUS_MESSAGES,	Supported Parameter Count:	26	
PARAMETER_DESCRIPTION , COMMS_STATUS , QUEUED_MESSAGE , STATUS_MESSAGES ,	Supported Parameters:		
STATUS_ID_DESCRIPTION, DEVICE_MODEL_DESCRIPTION,		PARAMETER_DESCRIPTION,	
		STATUS_ID_DESCRIPTION , DEVICE_MODEL_DESCRIPTION	Ň, 🔽
us: Idle			
	0 (0		0 (1 )
	•	nand list, see the RDM manua	al available from our
or more information or an in-depth command list, see the RDM manual available from our	undlight.de		
or more information or an in-depth command list, see the RDM manual available from our			
or more information or an in-depth command list, see the RDM manual available from our			
or more information or an in-depth command list, see the RDM manual available from our			
or more information or an in-depth command list, see the RDM manual available from our ebsite at www.rdm.soundlight.de			DISTURBAN
atus: Idle 333PWM-H RDM Mair	r	Sub Device Count: Sensor Count: Device Label: Manufacturer Label: Supported Parameter Count: Supported Parameters:	DMX512 Start Address:       1 - 3-ch mode, 1 LED         Sub Device Count:       2 - 4-ch w/ Master         Sub Device Count:       4 - 1-ch mode, 1-3         Sensor Count:       1         Device Label:       3613PWM-H 3-channel PWM decoder         Manufacturer Label:       SOUNDLIGHT The DMX Company         Supported Parameter Count:       26         Supported Parameters:       DEVICE_INFO, IDENTIFY_DEVICE, DMX_START_ADDRESS         Software, VERSION_LABEL, SUPPORTED_PARAMETERS         PARAMETER DESCRIPTION, COMMS STATUS, QUEUED_MESSAGE, STATUS_MESSAGE         STATUS_ID_DESCRIPTION, DEVICE_MODEL_DESCRIPTION         COMMS STATUS_QUEUED_MESSAGE, STATUS_MESSAGE         Status_ID_DESCRIPTION, DEVICE_MODEL_DESCRIPTION         COMMS STATUS_QUEUED_MESSAGE, STATUS_MESSAGE         Supported Parameters:         DEVICE_INFO, IDENTIFY_DEVICE, MODEL_DESCRIPTION         COMMS STATUS_QUEUED_MESSAGE, STATUS_MESSAGE         STATUS_ID_DESCRIPTION, DEVICE_MODEL_DESCRIPTION         COMMS STATUS_N_DEVICE_MODEL_DESCRIPTION         Manufacture         Supported Parameters:         Supported Parameters:         DEVICE_INFO, IDENTIFY_DEVICE, MODEL_DESCRIPTION, COMMS STATUS_QUEUED_MESSAGE, STATUS_MESSAGE         Supported Parameters:         Device_MODEL_DESCRIPTION, DEVICE_MODEL_DESCRIPTION         <

If a trouble-free operation cannot be guaranteed, disconnect the decoder interface 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.

### **CE MARKING**





The unit has been tested in our lab and has been marked to comply with CE requirements. To ensure compliance, use grounded power leads only and make sure that properly shielded data lines (CAT5, DMX data cable or Digital Audio cable to AES/EBU specifications) are used. Any modifications not approved by the manufacturer may void CE compliance.

# 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 DMX decoder 3633PWM-H which require the user's attention. Should your unit require servicing, please send it to the factory, freight paid.

### END OF LIFETIME



When the useful lifetime of this product has been reched, it must be disposed of properly. Electronic devices must not be placed in domestic waste. Consult your local authorities to find the nearest collection point of used electric and electronic devices. SOUNDLIGHT is a WEEE registered company (Reg No. DE58883929).

### Additional Product Info

For more information, pls refer to our website.

For DMX RDM information, visit www.rdm.soundlight.de

For product manuals, visit

For product information, visit

www.soundlight.de/produkte/3633pwm-h

www.manuals.soundlight.de

