

# White/Amber



from software version 1.30/30 (Instruction version 1.5)



PRODUCTS

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Notes:

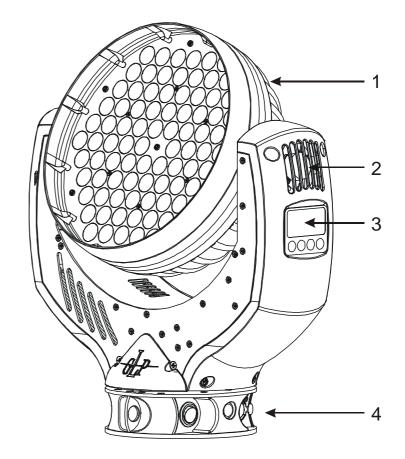


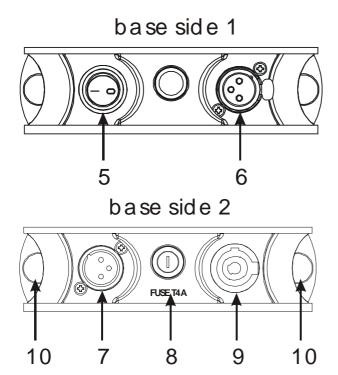

# Table of content

1	Des	criptior	n of Device	4	
	1.1	Safety	Instructions	5	
2	Pre	paratior	n and Installation	6	
	2.1	Mounti	ing	6	
		2.1.1	Mounting on the floor (upright)	7	
		2.1.2	Mounting in hanging position (Head down)	8	
		2.1.3	Mounting in sideway position	8	
	2.2	Secuir	ng the Device	9	
	2.3 Connections				
		2.3.1	Power Supply	9	
		2.3.2	DMX		
3	The	Menu F	Field	10	
4	DM)	K Chanr	nel Selection (DMX Protocol)	12	
5	Mai	ntaining	g and Cleaning the IMPRESSION	15	
	5.1	Safety	regulations	15	
	5.2	Mainte	enance Intervals (rule-of-thumb)	15	
6	Тес	hnical S	Specifications	16	
7	Inde	ex		17	

# 1 Description of Device

- 1. Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- 3. LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system





- 5. Power On/Off
- 6. DMX- Output (3 pole)
- 7. DMX- Input (3 pole)
- 8. Micro-fuse 5x20mm, T4A
- 9. Mains supply (Powercon)
- 10.2x Safety eyes

## 1.1 Safety Instructions



The **IMPRESSION** is an advanced technology product. To guarantee smooth operation, it is necessary to follow the following instructions.

The manufacturer of this device will not take responsibility of damages through any disregard of the information in this user manual. Warranty claims will also be cancelled in the event of the system casing being opened.

- 1. Make sure that before powering up the fixture, the fans and air inlets are clean and not blocked by anything.
- 2. Before powering up the fixture, ensure that the moving head part of the fixture can rotate unhindered through its full range of movement.
- 3. A safety distance of at least 0.5 m to any easily flammable material (e.g. decoration material) must be adhered to.
- 4. <u>Attention!</u> Don't touch the device during operation. Parts of the fixture can become hot and can cause injuries and / or damages.
- 5. The system doesn't contain any user serviceable parts. Opening the fixture will void the manufacturers warranty.
- 6. Danger of burning. Wait at least 15 minutes after disconnecting the AC power before changing the optical carrier on the fixture. Pay attention to possible hot parts of the system.
- Never look directly into the beam of light or one of the LEDs. Never use optical apertures with a distance less than 0.5 m to observe the beam of light. <u>LED Class 2M.</u> Not following these precautions can result in serious injury to your eyes and in particular, your retina.



**Attention:** LED Class 2M can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

## Avoid direct radiation to your eyes!

- 8. To ensure proper operation, you must also follow the installation guide described in chapter 2 of this manual. Operating the **IMPRESSION** without suitable mounting devices can increase the risk of an accident.
- 9. The **IMPRESSION** features a unique small and lightweight design with no specific carrying handles. Care needs to be shown when handling the fixture to ensure that no unnecessary damage should occur. Fragile areas include the LCD display and cover on one side arm and the front bezel.



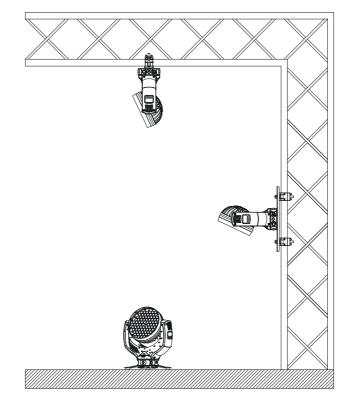
Pressure in these areas could result in damages which will not be covered by the standard warranty.

- 10. Repair-, maintenance- and installation work should only be performed by qualified or GLP certified staff. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
- 11. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.
- 12. Please keep this instruction manual for future reference.

# 2 Preparation and Installation

## 2.1 Mounting

The **IMPRESSION** is fully operational whether it hangs or is mounted to a wall. It can also be operated while standing on the floor. Keep a safety distance of 0.5 m from any easily inflammable materials (decoration etc.).

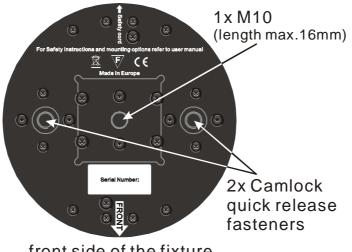




Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217. The installation shall be done by qualified personal only.



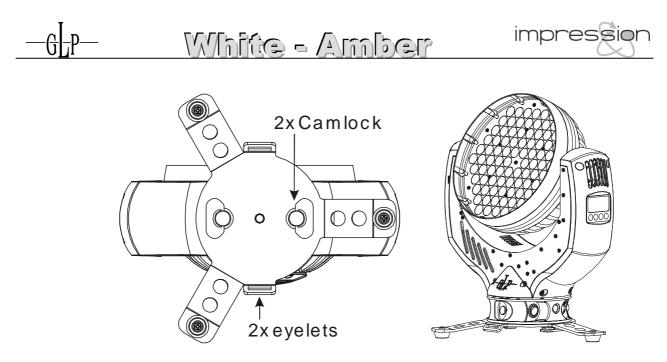
For the various mounting positions of the **IMPRESSION** (standing on the floor, sideways or hanging) different accessories kits are available. Using any required kits, along with the standard mounting connectors on the base of the fixture, will ensure a safe and firm installation.



front side of the fixture

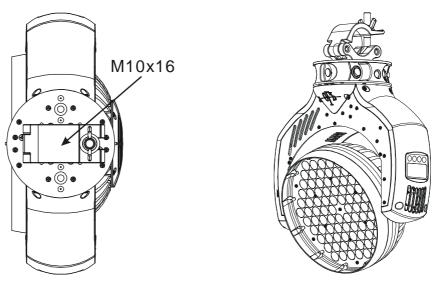
## 2.1.1 Mounting on the floor (upright)

To operate the **IMPRESSION** in an upright position, please use the dedicated floor-stand which ships with all original fixtures. The floor stand is mounted to the base of the fixture using the two Camlock quarter turn fasteners. Line up and engage the camlock connectors from the floor stand into the base of the fixture and turn the two fasteners 90° to lock them. Do the opposite to release them again. On both sides you'll find eyelets to pull though a fixing strap. This allows additional bracing of the floor-stand during the upright operation.



2.1.2 Mounting in hanging position (Head down)

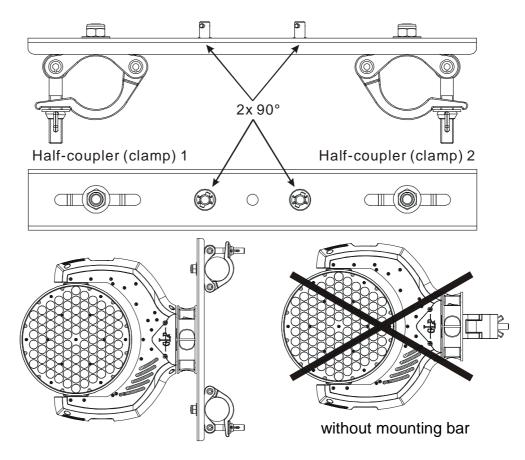
To operate the **IMPRESSION** in a hanging position, a half-coupler or similar clamp can be mounted directly to the bottom of the base using the M10x16 mm threaded socket.



2.1.3 Mounting in sideway position

To operate the **IMPRESSION** in a sideways position, please use an additional mounting bar, available from GLP or one of their agents.. This mounting bar is fixed via the two camlock quick-release connectors. Two half-couplers or clamps are then used to hang the mounting bar. This technique is necessary to cope with the additional torque in this mounting position. Never use the "Mounting in hanging position" technique described above to secure the fixture in a sideway position, as the fixtures base can become damaged, and a secure installation cannot be assured.





## 2.2 Secuing the Device

Regardless of the mounting method of the **IMPRESSION** you'll have to use a secondary safety wire. This safety wire can be attached to the fixture by threading it through one of the two holes provided on the base of the fixture. Ensure that the safety wire is securely fastened through the fixture and the fixtures mounting support. Install a safety wire that can hold at least 10 times the weight of the fixture.

## 2.3 Connections

## 2.3.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug via Powercon Connected load 350 VA (W) <=> 4 AT (micro-fuse 5x20mm) Please see printing on the case for the right electronic supply! **Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.** 



## 2.3.2 DMX

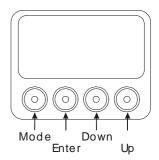
USITT DMX-512 Standard input/output in 3 pole connectors.

3 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+]

The DMX- Addressing starts at the DMX- Address [001].

# 3 The Menu Field

You'll find the control board on the side of the arm. It allows you to make all necessary adjustments of the **IMPRESSION**. With the **Mode**-key you get into the main menu. Afterwards you can navigate through the menu with the **Up/Down**-keys. Push the **Enter**-key to get to the next menu level or to confirm your settings. Select **ON/ OFF** function settings with the **Up/Down**-keys. Confirm and save with the **Enter**-key (the display shows **OK**). Push the **Mode**-key to cancel the entry and go back to the main menu.



	$\leftarrow$ MODE - ENTER $\rightarrow$							
	Level1	Level 2	Level 3	Level 4	Remark			
	DMX Start Address 001				Define the DMX start address			
	Special	Manual DMX			Manual control of all system functions			
			Pan		Manual control for Pan (X-movement)			
			Speed Movements		Speed adjustment for Pan/Tilt movements $\rightarrow$ see also item below			
			Pan/Tilt Movements		Manual control for Pan/Tilt movements			
			Special		Activate the White- or Full-Power Mode $\rightarrow$ see also DMX table			
UP⇒			Dimmer		Manual control for dimmer			
ı.			Shutter		Manual control for shutter			
DOWN			White		Manual control for white			
DO			Amber		Manual control for amber			
<b>1</b>			Tilt		Manual control for tilt (Y-movement)			
		Display Contrast			Adjustment for the Display contrast			
		Default Set			Resetting all functions to original values			
		Set Dimmer Frequency			Changes PMW frequency between 600Hz and 1200Hz			
		LED Dimmer Version			Reads out the current LED dimmer (software) version			
		Impression Version			Reads out the current CPU software version			
		Adjust	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)			
			Pan Offset		Calibration for Pan-Offset			

 $\leftarrow$  MODE - ENTER  $\rightarrow$ 



			1	[]
		Tilt Offset		Calibration for Tilt-Offset
		Clear EEPROM		Erase EEPROM memory
		Diagnose		Diagnose functions
			Pos Feed Pan Delta	Internal data and function diagnose
			Anz Ti0- Int-Err	Internal data and function diagnose
			PFC Voltage	Show the present PFC voltage
	_	1	Pos Feed Tilt Delta	Internal data and function diagnose
	Temperature Arm			Indicates the arm temperature
	Temperature Head			Indicates the head temperature
	PAN/TILT Motor Power			Switches power for Pan/Tilt ON or OFF (disconnected from power)
	PAN/TILT Silent Mode			Reduces maximum speed for Pan/Tilt
	DMX Hold			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption
	Position Feedback			Automatically position feedback (correction) for Pan/Tilt movement
	Set DMX Image			Stores the Scene currently sent to the unit
	DMX input Monitor	<u> </u>		Indicates the presently received DMX signal per DMX channel
		Pan		Instantaneous value for Pan
		Speed Movements		Speed adjustment for Pan/Tilt movements → see item below
		Pan/Tilt Movements		Instantaneous value for Pan/Tilt movements
		Special		Instantaneous value for special
		Dimmer		Instantaneous value for dimmer
		Shutter		Instantaneous value for shutter
		White		Instantaneous value for white
		Amber		Instantaneous value for amber
		Tilt		Instantaneous value for tilt movement
Live time				Indicates the overall operation time of the system
Display				Adjust the display
	Blackout			ON/OFF: Display OFF
Select DMX Mode				Please select the desired DMX Mode
	Compressed			Fixture works in "Compressed" mode $\rightarrow$ see also sectiion 4
	Normal			Fixture works in "Normal" mode $\rightarrow$ see also section 4
	High- Resolution			Fixture works in "High Resolution" mode $\rightarrow$ see also section 4

# Reverse Pan

**Reverse Tilt** 

Reset

Selects Inverse Pan, on or off

SelectsInverse Tilt on or off

Reset all functions

# 4 DMX Channel Selection (DMX Protocol)

## Normal- Mode 10 DMX channels

Channel	Function			Time and Value	DMX	HEX	%
1) PAN-	0 660°			min. 3,2 s	0255	00FF	0100
coarse							
2) PAN-fine	High- Pos	High- Pos	+ 2,6°(16 Bit)		0255	00FF	0100
3) Tilt-	0300°			min. 1,5 s	0255	00FF	0100
coarse							
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		+ 1,2°(16 Bit)		0255	00F F	0100
5) White	Color mixing for White		0 - 100%	0255	00FF	0100	
6) Amber	Color mixing for Amber		0 - 100%	0255	00FF	0100	
7) Shutter	Shutter close	ed			015	000F	05,5
-	Random Pul	se effect		slow - fast	1647	102F	618,5
	Up-dimming (random pat		er closing	slow - fast	4879	304F	1931,5
	Shutter oper (random pat	terns)	U U	slow - fast	80111	506F	3243
	Up-dimming (random pat		-dimming	slow - fast	112143	708F	4456
	Strobe effect	t pause		5s to 1s	144199	A0C7	5777
	Strobe effect	t, slow - fas	t	1 Hz 10 Hz	200239	C8EF	7894
	Shutter oper	ו			240249	F0F9	9597
	RESET			min. 3 Sec.	250	FA	98
	Shutter oper				251255	FBFF	99100
8) Dimmer	Dimmer (0%				0255	0FF	0100
9) Move-	No moveme		1		0	0	0
ment	Movement	Size	Phase				
	PAN	1	0°		0101	0101	0,5
		1	90°		0203	0203	1,0
		1	180°		0405	0405	1,7
	DAN	1	270°		0607	0607	2,5
	PAN	2	0°		0809	0809	3,3
		2	90° 180°		1011	0A0B 0C0D	4,1
		2	270°		1213	0E0F	4,9 5,7
	PAN	3	0°		1415	1111	6,5
		3	90°		1819	1213	7,3
		3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
		4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT			e see also PAN	3263	203F	1325
	PAN / TILT			e see also PAN	6495	405F	2637





Channel	Function		Time and Value	DMX	HEX	%
	PAN / TILT (inverse)	size / phase	see also PAN	96127	607F	3850
	Circle	size / phase	see also PAN	128159	809F	5162
	Circle (inverse)	size / phase	see also PAN	160191	A0BF	6375
	Lying eight	size / phase	see also PAN	192223	C0DF	7687
	Random movement	size see als	o PAN	224255	E0FF	88100
10) Speed	Pan/Tilt relative movement	t		01	0001	00,5
Pan/Tilt	Pan/Tilt slow – fast		Pan Min. 660°= 200s	2255	02FF	1100
	Use this channel also for the speed of		Pan Max. 660°= 2,65s			
	the movements (channel 9).		Tilt Min. 300°= 110s			
			Tilt Max. 300°= 1,8s			

## Compressed- Mode 8 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	min. 3,2 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	min. 1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00F F	0100
5) White	Color mixing for White	0 - 100%	0255	00FF	0100
6) Amber	Color mixing for Amber	0 - 100%	0255	00FF	0100
7) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931,5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s to 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
8) Dimmer	Dimmer (0% - 100%)		0255	0FF	0100

## High Resolution (Extended)- Mode 11 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	min. 3,2 s	0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6°(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°	min. 1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos … High- Pos + 1,2°(16 Bit)		0255	00F F	0100
5) White- coarse	Color mixing for White	0 - 100%	0255	00FF	0100
6) White-fine	Color mixing for White-Low		0255	00FF	0100
7) Amber- coarse	Color mixing for Amber	0 - 100%	0255	00FF	0100





Channel	Function	Time and Value	DMX	HEX	%
8) Amber- fine	Color mixing for Amber-Low		0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	4879	304F	1931,5
	Shutter open then down-dimming (random patterns)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)	slow - fast	112143	708F	4456
	Strobe effect pause	5s to 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
10) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
11) Dimmer- fine	Dimmer-Low		0255	0FF	0100

### Locking and unlocking the Control Panel

You can lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

#### Additional shortcut features when switching on the fixture

- a) 1200Hz Mode (Hold down the UP- button during power ON)
  After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.
  In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).
- b) 600Hz Mode (Hold down the **DOWN- button** during power ON)
  After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.
  In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).
- c) Standard Mode (Hold down the ENTER- button during power ON) After switching on the fixture, the DMX start address will be set to [001]. All other settings will remain unchanged.



## Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:

- → 06 = 600Hz / 12 = 1200Hz
- → N = Normal Mode / C = Compressed Mode / H = High Res. Mode
- $\rightarrow$  N = Tilt normal / I = Tilt inverted
  - → N = Pan normal / I = Pan inverted

# 5 Maintaining and Cleaning the IMPRESSION

The **IMPRESSION** is a low maintenance fixture. It is only necessary to clean the air inlets and outlets as well as the optical LED lenses from time to time. For safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on, or within, the fixture. If they do, the fixture's light output will be significantly reduced, and damages to the fixture may occur. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to operate reliably throughout its entire life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended. Under no circumstances should alcohol or solvents be used to clean the fixture or its lenses!

## 5.1 Safety regulations

- Disconnect the fixture from the mains power before commencing any maintenance work!
- Wait minimum 15 minutes after removing the power to allow the fixture to cool down.

## 5.2 Maintenance Intervals (rule-of-thumb)

The maintenance schedule of any given fixture depends on the installation environment. Hence no specific guidelines can be given. The cleaning intervals given below are suggestions, based on practical experience. We suggest that you start with these and develop your own maintenance schedule as you see the fixtures performance in your specific environment.

Maintenance Task	Interval	How
Cleaning of LED lenses and optical system	weekly	soft brush /lint-free cloth
Cleaning of fans and air channels	monthly	vacuum cleaner, airbrush, etc.

## Attention:

- Never let optical parts come into contact with oil or fat.
- Before running the fixture wait until all parts are touch dry.
- Never touch lenses with bare fingers.

# **6** Technical Specifications

Power supply				
Power consumption	350 VA (Watt)			
Power Input	~100-240 V AC, 50-60 Hz (auto sensing input)			
Fuse protection	Micro-fuse 5x20 mm, T 4A			
<b>Operational Parameters</b>				
Max. Ambient	45℃ / 113年 (integrated overheating switch)			
Temperature				
Mounting Position	Any (see chapter mounting)			
Lighting System - Additive	ve Color mixing			
LED Type	90x Luxeon K2 High-power- LEDs			
Lifetime	50.000 h			
60 cold white LEDs, 30 am	ber LEDs allow continuously adjustable color temperature			
Optical System				
High efficient Collimator cl	uster			
Exchangeable optical carri	er with 10° light distrib ution angle (25° optional)			
Scattering light aperture				
Shutter / Dimmer (8 Bit)				
Strobe- Effect with variable Effects	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-			
Continuous Dimmer 0 - 10	0%			
DMX Control				
	, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. ts at the DMX channel [001].			
Pan / Tilt (8/16 Bit)				
Pan- movement	660° in min. 3,2 seconds (Position Feedback)			
Tilt- movement300° in min. 1,5 seconds (Position Feedback)				
Weights and Measures				
Width of the base	340 mm / 13.4 inches			
Length of the base	145 mm / 5.7 inches			
height (head vertical)	370 mm / 14.6 inches			
Weight (net)	7.5 kg / 17 lbs.			





# 7 Index

<b>B</b> BGV C1	6
С	
Circumference	15
Cleaning	15
Compressed- Mode	13
D	
Description of Device	
DIN VDE 0711-217	-
DMX Protocol	
	4
e-mail <b>Enter-</b> key	
Eyelets	
H	
Half-couplers (clamps)	8
High Resolution- Mode	
1	
Instruction Version	
Internet	1
L	
LED Class 2M	5
М	
Maintenance	15
Menu Field	
Micro-fuse	
Mode-key	
Mounting	6

Mounting in hanging Position
<i>N</i> <u>Normal- Mode</u> 12
O Optical parts
P           Pan- Movement
SSafety distanceSafety Instructions5Secure the Device9Software Version1
<i>T</i> Technical Specifications
<b>U</b> <b>Up/Down-</b> keys10
<b>V</b> VBG 70 6
W Warranty claims

GLP



