impression[®]

Manual struction



from software version: V1.09 (Instruction version: 1.1)



e-mail: service@glp.de Internet: http://www.glp.de





Notes:	



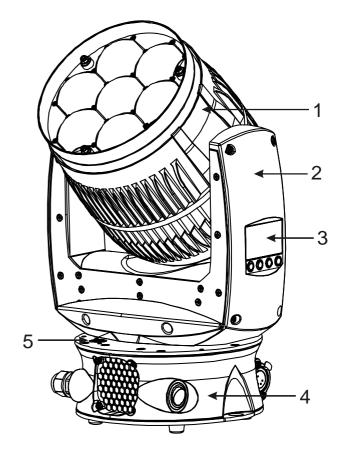


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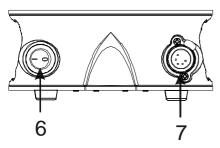
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1 Description of Device

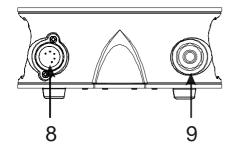
- 1. Moving head (actively and passively cooled)
- 2. Arm of device
- 3. LCD-Display/Menu (data entry)
- 4. Base with various connectors, air in/outlets and mounting system
- 5. Fuse holder



base side 1



base side 2



- 6. Power On/Off
- 7. DMX- Output (5-pin)
- 8. DMX- Input (5-pin)
- 9. Mains supply (fixed cable)

1.1 Safety Instructions



The **IMPRESSION X4Ss** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules.

The manufacturer of this device will not take responsibility for damages through any disregard of the information provided in this manual. Warranty claims also will be voided in the case that the fixture housing is opened.

- 1. Before powering on the fixture, make sure that the fixtures fans and air inlets are clean and not blocked.
- Ensure that the fixture head can rotate unhindered throughout its complete range of pan and tilt movement. A safety distance of at least 0.5 m must be maintained between the fixture and any easily inflammable material (e.g. decoration material).
- 3. <u>Attention!</u> Don't touch the fixture during the operation. This can cause injuries and/or damages.
- 4. The fixture doesn't contain any user serviceable parts. Opening the fixture will void all warranties.
- It is necessary to wait at least 15 minutes after disconnecting the mains power before handling the fixture.. Pay attention to possible hot parts of the fixture.
 -- Danger of BURNING --
- 6. Never look directly into the beam of light or into one of the LEDs.

 Never use optical apertures to observe the beam of light. LED Class 2M.

 You'll risk serious injury of your eyes and in particular of 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.

Hence: Avoid direct radiation into your eyes!

- 7. To ensure safe operation, follow also the Installation guide described in chapter 2. Operating the IMPRESSION X4S without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 8. Repair, maintenance, and installation work shall be done by qualified or GLP certified staff only. You need to pay attention to the common rules of technology that are not explicitly mentioned in this manual.
- 9. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.
- 10. Please keep this instruction manual for future reference.



2 Preparation and Installation

2.1 Safety information

The **IMPRESSION X4S** fixtures from GLP is fitted with a number of planoconvex lenses in a highly efficient collimator cluster. This type of lens can act as a strong magnifying glass.

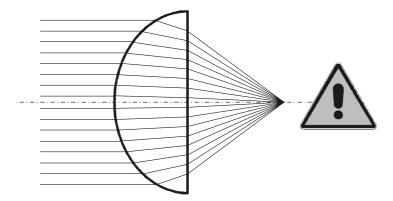
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially melting components or causing an internal fire within seconds.

In order to avoid these possible problems please adhere to the following requirements:

- Do not expose the front of a fixture to direct sunlight or any other strong light sources.
- For outdoor applications during daylight make sure that the front face of any fixture is either shielded or points away from the sun, even when fixtures are not in use.
- Do not modify the front glass or lenses of any fixture.

These requirements have to be followed regardless of whether a fixture is powered on or off as the magnifying effect is an optical effect and therefore independent from the (electrical) state of the fixture.

Especially when working with high powered **beam-lights**; extreme caution and observance of these safety instructions is mandatory.

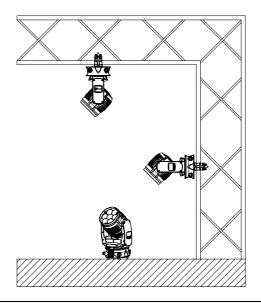


Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can be found at http://www.glp.de.



2.2 Mounting

The **IMPRESSION X4S** is fully operational whether it hangs or is mounted to the wall. It can also be operated while standing on the floor. Keep a safety distance of min. 0.5 m towards any easily inflammable materials (decoration etc.).



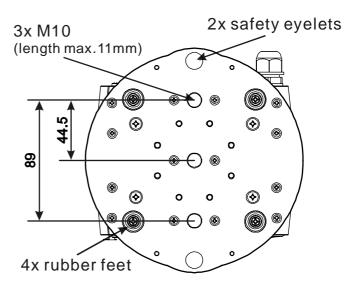


Pay attention to the regulations of: BGV C1 (former VBG 70), DIN VDE 0711-217 and BGI 810-3.

The installation shall be done by qualified staff only.

For the various mounting positions of the **IMPRESSION X4S** (standing on the floor, sideways or hanging) different connectors are available. Through this a safe and firm installation is assured. You'll find dedicated M10 threads on the

bottom side of the fixture which should be used. In addition the top of the base is marked with a **FRONT** arrow allowing consistent orientation during installation.

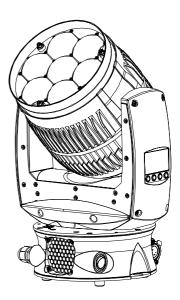


Fixture from below



2.2.1 Operating on the Floor (Upright)

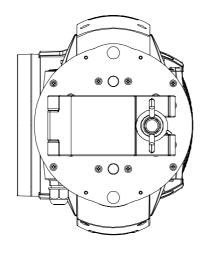
The **IMPRESSION X4S** is fitted with 4x solid rubber feet which allows a stable standing of the fixture. An additional securing is usually not required. Please pay attention to an even and gripping surface.



2.2.2 Mounting in hanging position

To operate the **IMPRESSION X4S** in a hanging position please use a half-coupler (clamp). This can be mounted directly to the bottom side of the fixture. It should be attached centrically with a M10 mm thread bolt (max. length 11mm).

<u>Attention:</u> Never use a longer bolt as this may damage the interior of the fixture.





2.2.3 Mounting in sideways Position

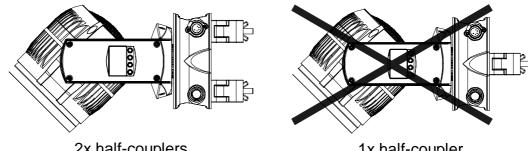
To operate the **IMPRESSION X4S** in a sideways position please use two half-couplers (clamps) attached to the bottom side of the base. They should be attached with M10 mm thread bolts (max. length 11mm).

This technique is necessary to cope with the torque which accrues in this mounting position. Never use the "Mounting in hanging position" technique described above to fasten the fixture in the sideways position.





A safe and sound installation can not be assured in this way. In addition this can damage the fixture base.



2x half-couplers

1x half-coupler

2.3 Securing the Fixture

Regardless of the mounting method of the **IMPRESSION X4S** you'll have to use a stipulated safety wire. Attach the safety wire through one of the two holes provided on the base of the fixture and connect it to the primary support structure. Pay attention to a safe and proper fastening. The safety cable must comply with BGI 810-3 (EN 60598-2-17 Section 17.6.6) and be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.

2.4 Connections

2.4.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug

Connected load 130 VA (W) <=> T5A (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.

2.4.2 DMX

USITT DMX-512 Standard input/output in 5-pin connectors.

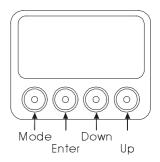
Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4&5 N.C.

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



3 The Menu Field

You'll find the control board on the side part of the arm. It allows you to make all necessary adjustments of the **IMPRESSION X4S.** 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 in the next menu level or to confirm your settings. Make them and set functions **ON/OFF** with the **Up/Down-**keys. Confirm and save it with the **Enter-**key (the display shows **OK**). Push the **Mode-**key to cancel the entry and go back to the main menu.



To lock or unlock the keys of the menu field press Mode+Enter+Up simultaneously.

 \leftarrow MODE - ENTER \rightarrow

	Level1	Level 2	Level 3	Level 4	Remark
	DMX Start				Set the DMX start address
	Address 001				Set the DIVIX start address
	Special	Manual DMX			Manual control of all fixture functions
			Pan		Manual control for Pan (X-movement)
			Pattern		Manual control for Pattern Byte 1 LED 1 - 7
			Byte 1		·
			Pattern		Manual control for Pattern channel / bank
			Zoom		Manual control for Zoom
			Speed		Manual control for Pan/Tilt movements
			Movements		
个			Pan/Tilt		Manual control for Pan/Tilt movements
Ы			Movements		
ر			Special		
÷.			White		Manual control for Color temperature
₹			Temperature Dimmer		Manual control for Dimmer
- DOWN -			Shutter		Manual control for Shutter
Ω			White		Manual control for White
\downarrow			Blue		Manual control for blue
			Green		Manual control for green
			Red		Manual control for red
			Color Wheel		Manual control for the color wheel
			Tilt		Manual control for Tilt (Y-movement)
		Adlinat			The result of the control of the con
		Adjust			
			Key code		Use the code for entering the calibration menu
			XXXX		(for authorized persons only)
			Display		Adjustment for the Display contrast
			Contrast		regionition and 2 oping community
			PWM -		Changes PMW frequency
			Frequ. Adj.		, ,
			Pan Offset		Calibration for Pan-Offset
			Tilt Offset LED adjust		Calibration for Tilt-Offset
			LED aujust	White edinet	
				White adjust red	Adjust intensity for red channel
				White adjust blue	Adjust intensity for blue channel
				White adjust green	Adjust intensity for green channel
			Clear EEPROM		Erase EEPROM memory
				•	





Diagnose **DMX Image** Set image if DMX off Save image in memory **DMX** input Monitor Pan Tilt Pattern Byte 1 Pattern Zoom Speed Movements Pan/Tilt Movements Special White ← DOWN - UP → Temperature Dimmer Shutter White Blue Green Red Color Wheel Set DMX Mode Compressed Mode Normal Mode High-Res. Mode Position feedback **Reverse Pan** Reverse Tilt Reset

Diagnose fixture functions
Activates a stored scene if DMX is off
Stores the scene currently sent to the unit
Indicates the presently received DMX signal per DMX channel
Instantaneous value for Pan
Instantaneous value for Tilt
Instantaneous value for Pattern Byte 1
Instantaneous value for Pattern channel / bank
Instantaneous value for Zoom
Speed adjustment for Pan/Tilt movements → see item below
Instantaneous value for Pan/Tilt movements
Instantaneous value for Special
Adjustment of the color temperature for WHITE
Instantaneous value for Dimmer
Instantaneous value for Shutter
Instantaneous value for White
Instantaneous value for Blue
Instantaneous value for Green
Instantaneous value for Red
Instantaneous value for Color Mixing unit
Select the desired DMX Mode
Fixture works in "Compressed" mode → see also section 4 below
Fixture works in "Normal" mode → see also
section 4 below
Fixture works in "High Resolution" mode → see also section 4 below
Switch automatic position feedback ON/OFF
Invert Pan movements: ON/OFF
Invert Tilt movements: ON/OFF
RESET and new calibration for all functions





4 DMX Channel Selection (DMX Protocol)

Normal-Mode 18 DMX channels

Channel	Function			Time and Value	DMX	HEX	%
1) PAN-					0255	00FF	0100
coarse					0233	0011	0100
2) PAN-fine					0255	00FF	0100
3) Tilt-					0255	00FF	0100
coarse					0200	00	0100
4) Tilt-fine					0255	00FF	0100
5) Color	Colors adjust	table via RG	В		07	0007	025
(fixed)	Color 01 - Re				815	080F	35.5
` ´	Color 02 - Ar	nber 1)			1623	1017	68.5
	Color 03 - W	arm Yellow	1)		2431	181F	912.5
	Color 04 - Ye				3239	2027	1315.5
	Color 05 - Gr				4047	282F	1618.5
	Color 06 - Tu	ırquoise 1)			4855	3037	1921.5
	Color 07 - Cy	/an ¹⁾			5663	383F	2224.5
	Color 08 - Bl				6471	4047	2527.5
	Color 09 - La				7279	484F	2830.5
	Color 10 - Ma				8087	5057	3134.5
	Color 11 - Ma				8895	585F	3537.5
	Color 12 - Pi	nk ''			96103	6067	3840.5
	White - CTO			3200K	104111	686F	4143.5
	White			5600K	112119	7077	4446.5
	White - CTB	2)		7200K	120127	787F	4749.5
	Rainbow Effe			alaur fact	128	80	50
	Rainbow Effe			slow - fast	129223	81DF	5188
C) Dod			٠, ۵	slow - fast	224255	E0FF	89100
6) Red 7) Green	Color mixing system - Red		0 - 100%	0255	00FF	0100	
,	Color mixing system - Green		0 - 100%	0255		0100	
8) Blue	Color mixing system - Blue		0 - 100%	0255	00FF	0100	
9) White	Color mixing system - White		0 - 100%	0255	00FF	0100	
10) Shutter	Shutter close			alaw foot	015	000F	05.5
	Shutter pulse		dooina	slow – fast	1647	102F	618.5
	Up-dimming (random patt		closing	slow - fast	4879	304F	1931
	Shutter open		dimmina				
	(random patt		aiiriiriig	slow - fast	80111	506F	3243
	Up-dimming		limmina		110 110	70.05	44.50
	(random patt		J	slow – fast	112143	708F	4456
	Strobe effect	pause		5s - 0.1s	160199	A0C7	6377
	Strobe effect			1 Hz - 10 Hz	200239	C8EF	7894
	Shutter open	l			240255	F0FF	95100
11) Dimmer	Dimmer		0 - 100%	0255	0FF	0100	
12) CTO	No CTO			07	007	02.5	
	Continuous of	color temper	ature	Applicable for ALL	8255	08FF	3100
	correction			colors	0200		3100
13) Special	Change PWM frequency			03	0003	01	
				100200	64C8	4078	
	RESET				250255	FAFF	98100
14) Move-	No macros	·			0	00	0
ment	Movement	Size	Phase	Use "Speed" to adjust			
macros	PAN	1	0°		0101	0101	0.5





Channel	Function			Time and Value	DMX	HEX	%
		1	90°		0203	0203	1.0
		1	180°		0405	0405	1.7
		1	270°		0607	0607	2.5
	PAN	2	0°		0809	0809	3.3
		2	90°		1011	0A0B	4.1
		2	180°		1213	0C0D	4.9
		2	270°		1415	0E0F	5.7
	PAN	3	0°		1617	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		size / phase		3263	203F	1325
	PAN / TILT		size / phase		6495	405F	2637
	PAN / TILT	(inverse)	size / phase		96127	607F	3850
	Circle		size / phase		128159	809F	5162
	Circle (inve	rse)	size / phase		160191	A0BF	6375
	Lying eight		size / phase		192223	C0DF	7687
	Random mo		size / phase	see PAN	224255	E0FF	88100
15) Speed	controller	vement speed	from		01	0001	005
Pan/Tilt	Pan/Tilt, slow – fast						
	Use this channel also for the speed of				02255	02FF	1100
		ents (channel 1	4).				
16) Zoom	Wide - narrow (spot)				0255	00FF	0100
17) Pattern	No pattern			02	0002	01	
	Pre-defined patterns			03253	03FD	299	
	Activates direct access to LED Pattern				254255	FEFF	100
18) Pattern Byte 1	Direct acce	ss to Pattern of	LED 17		0255	00FF	0100

Compress-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-			0255	00FF	0100
coarse					
2) PAN-fine			0255	00FF	0100
3) Tilt-			0255	00FF	0100
coarse					
4) Tilt-fine			0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02.5
(fixed)	Color 01 - Red 1)		815	080F	35.5
	Color 02 - Amber 1)		1623	1017	68.5
	Color 03 - Warm Yellow 1)		2431	181F	912.5
	Color 04 - Yellow 1)		3239	2027	1315.5
	Color 05 - Green 1)		4047	282F	1618.5
	Color 06 - Turquoise 1)		4855	3037	1921.5
	Color 07 - Cyan 1)		5663	383F	2224.5
	Color 08 - Blue 1)		6471	4047	2527.5





Channel	Function	Time and Value	DMX	HEX	%
	Color 09 - Lavender 1)		7279	484F	2830.5
	Color 10 - Mauve 1)		8087	5057	3134.5
	Color 11 - Magenta 1)		8895	585F	3537.5
	Color 12 - Pink 1)		96103	6067	3840.5
	White - CTO	Color temperature 3200K	104111	686F	4143.5
	White	Color temperature 5600K	112119	7077	4446.5
	White - CTB	Color temperature 7200K	120127	787F	4749.5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect Stop ²⁾ Rainbow Effect ³⁾	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) White	Color mixing system - White	0 - 100%	0255	00FF	0100
10) 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 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200.239	C8EF	7894
	Shutter open		240249	F0F9	9597.5
	Shutter open		251255	FBFF	99100
11) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
12) Zoom	Wide - narrow (spot)		0255	00FF	0100
13) Special	Pattern Block 1 → channel 14		03	0003	01
	Change PWM frequency		100200	64C8	4078
	RESET		250255	FAFF	98100
14) Pattern	No pattern		02	0002	01
	Pre-defined patterns		03253	03FD	299

High Resolution (Extended) - Mode 19 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-			0255	00FF	0100
coarse					
2) PAN-fine			0255	00FF	0100
3) Tilt-			0255	00FF	0100
coarse					
4) Tilt-fine			0255	00FF	0100
5) Red-	Color mixing system – Red	0 - 100%	0255	00FF	0100
coarse					
6) Red-	Color mixing system – Red-Low		0255	00FF	0100
fine					





Channel	Function	Time and Value	DMX	HEX	%
coarse		0 - 100%	0255	00FF	0100
8) Green- fine	Color mixing system – Green-Low		0255	00FF	0100
9) Blue- coarse	Color mixing system – Blue	0 - 100%	0255	00FF	0100
10) Blue- fine	Color mixing system – Blue-Low		0255	00FF	0100
11) White- coarse	Color mixing system – White	0 - 100%	0255	00FF	0100
12) White- fine	Color mixing system – White-Low		0255	00FF	0100
13) 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 - 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz - 10 Hz	200239	C8EF	7894
	Shutter open		240249	F0F9	9597.5
	Shutter open		251255	FBFF	99100
14) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
15) Dimmer- fine	Dimmer - Low		0255	0FF	0100
16) Zoom	Spot - Flood		0255	00FF	0100
17) Special	Pattern Block 1 → channel 18		03	0003	01
	Change PWM frequency		100200	64C8	4078
	RESET		250255	FAFF	98100
18) Pattern	No pattern		02	0002	01
	Pre-defined patterns		03253	03FD	299
	Activates direct access to LED Pattern		254255	FEFF	100
19) Pattern Byte 1	Direct access to Pattern of LED 17		0255	00FF	0100

¹⁾ The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **IMPRESSION X4S** will then start from that color and will execute the rainbow effect synchronously. Different **IMPRESSION X4S** can have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the ones marked with ¹⁾ in the tables above the rainbow start-color will be red.

²⁾ Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued from the current color.

³⁾ The Rainbow-effect will run synchronously only if started from one of the predefined colors (see also ¹⁾ before).





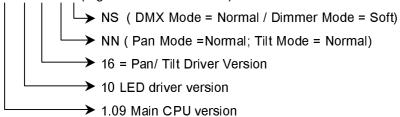
Locking and unlocking the Control Panel

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

Additional Display Indications

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

Vxx/xx/xx/x (e.g. V1.09/10/16/NN/NS)



5 Maintaining and Cleaning the IMPRESSION X4S

The **IMPRESSION X4S** is a fixture of very low maintenance. 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. Otherwise the fixture's light-output will be significantly reduced or damages can occur. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to operate reliably throughout its life.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

5.1 Safety regulations

- Pull out the mains power plug!
- Wait min. 15 minutes after disconnecting power to allow the fixture to cool down.

5.2 Maintenance and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Hence no general guidelines can be given. The intervals given below are only suggestions from our experience.

Position	Interval	In this way
LED reflector and optical system	weekly	soft brush /lint-free cloth
Fan and air channel	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 dry.
- · Never tough lenses with bare fingers.

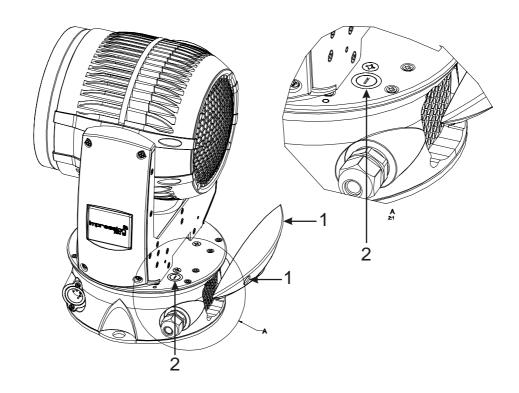
5.3 Changing the Fuse

Follow the safety regulations as described above!

The micro-fuse holder (2) is located on the topside of the base. In order to attain access you first need to remove one of the two plastic side covers of the fixture arm. Open the two screws no. 1 shown in the picture below.

Replace the fuse with one with the exact rating as printed in this manual or the body of the fixture. Never use a different one!

Attach the side cover again before operating the fixture.





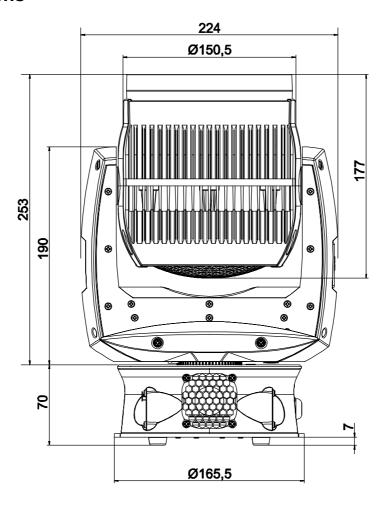


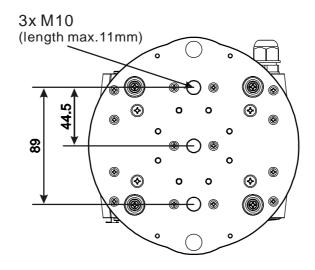
6 Technical Specifications

Power supply				
Power consumption	130 VA (Watt)			
Power Input	~100-240 V AC, 50-60 Hz (wide range input)			
Fuse protection	Micro-fuse 5x20 mm, T5A			
Operational Parameters				
Max. Ambient	5° - 45°C (integrated overheating switch)			
Temperature				
Mounting Position	Any (see relevant chapter)			
Lighting System - Additiv	ve Color mixing			
LED Type	ED Type 7 x Osram Ostar RGBW multi-chip			
Lifetime	50,000 h			
Wavelength optimized for	maximum presentable color space			
Optical System	Optical System			
Full RGBW / High efficient	Full RGBW / High efficient Collimator cluster			
Shutter / Dimmer (8/16 B	Shutter / Dimmer (8/16 Bit)			
Strobe- Effect with variable Effects	Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects			
Continuous Dimmer 0 - 10	0%			
Zoom				
7 to 50 degree continuous	zoom			
Optical Patterns				
Several hundred pre-define	ed beam patterns with direct access and manipulation			
DMX Control				
Standard USITT DMX-512, 5-pin XLR; [+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1 / Pin 4&5 N.C. Die DMX- Addressing starts at the DMX channel [001].				
Pan / Tilt (8/16 Bit)				
Pan- movement	Pan- movement 660° in min. 3,2 seconds (Position Feedback)			
Tilt- movement	Tilt- movement 300° in min. 1,5 seconds (Position Feedback)			
Weights and Measures				
Base only	Ø165,5 mm			
Total width of fixture	224 mm			
Hight (head vertical)	323mm (incl. base)			
Weight (net)	5.5 kg			



7 Dimensions









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