

# Instruction Manual

impression<sup>&</sup>  
X4S



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



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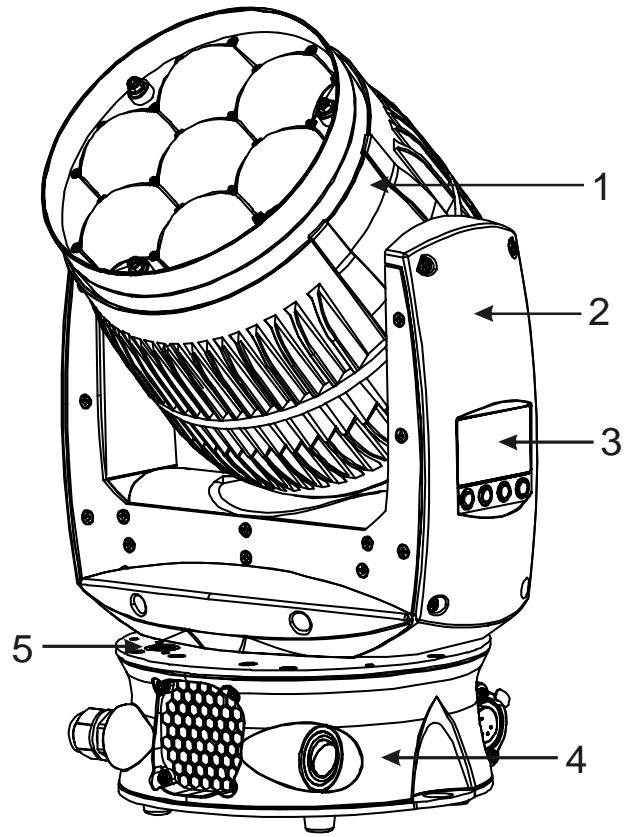


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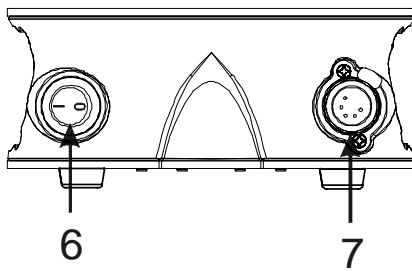
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## 1 Description of Device

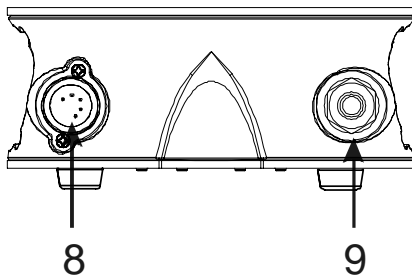
1. Moving head (actively and passively cooled)
2. Arm of device
3. LCD-Display/Menu (data entry)
4. Base with various connectors, air in/outlets and mounting system
5. Fuse holder



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.
2. 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. **Attention!** 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.**
5. 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 plano-convex lenses in a highly efficient collimator cluster. This type of lens can act as a strong magnifying glass.

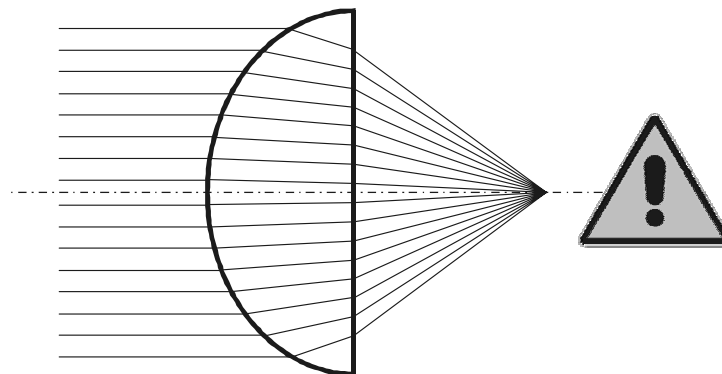
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially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

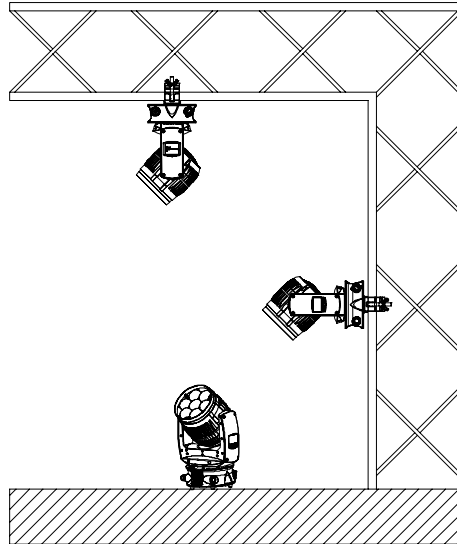
Especially when working with high powered **beam-lights**; extreme caution and observance of these safety instructions is mandatory.



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>.

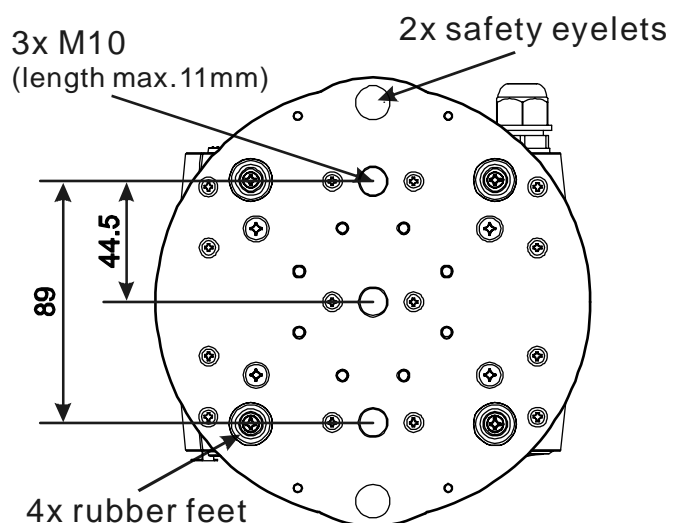
## 2.2 Mounting

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.**

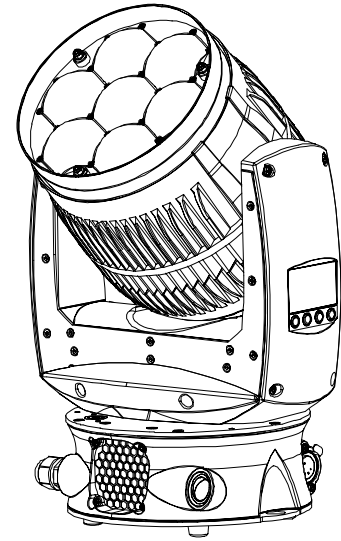
For the various mounting positions of the **IMPRESSION X4S** (standing on the floor, sideways or hanging) different connectors are available. Through this a safe and firm installation is assured. You'll find dedicated M10 threads on the bottom side of the fixture which should be used. In addition the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

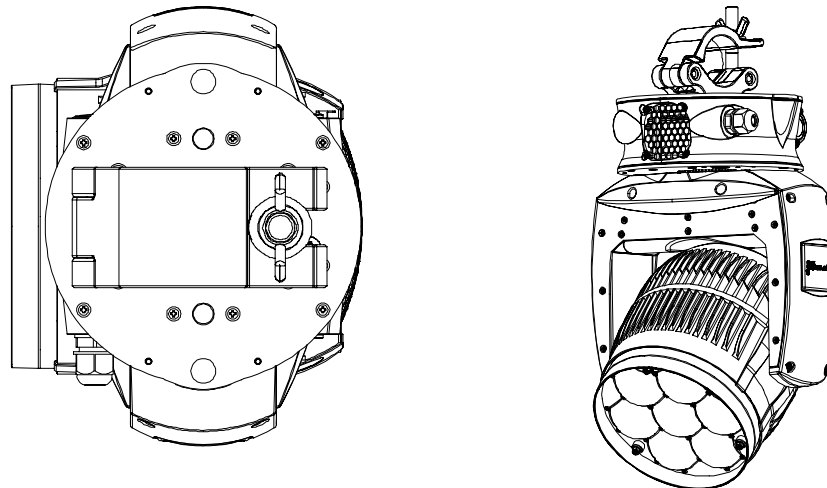
The **IMPRESSION X4S** is fitted with 4x solid rubber feet which allows a stable standing of the fixture. An additional securing is usually not required. Please pay attention to an even and gripping surface.



### 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 centrally with a M10 mm thread bolt (max. length 11mm).

**Attention: Never use a longer bolt as this may damage the interior of the fixture.**



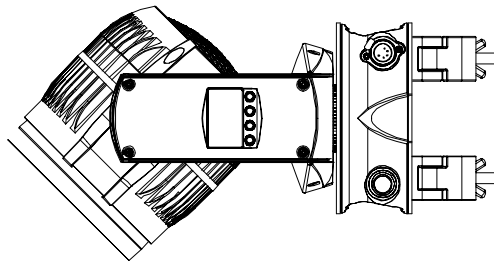
### 2.2.3 Mounting in sideways Position

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).

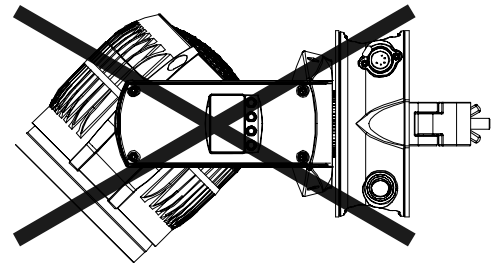
This technique is necessary to cope with the torque which accrues in this mounting position. Never use the "Mounting in hanging position" technique described above to fasten the fixture in the sideways position.



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)  $\Leftrightarrow$  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

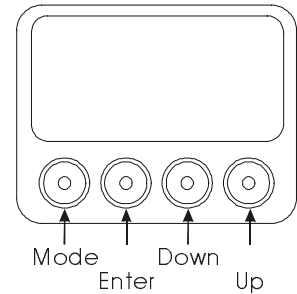
USITT DMX-512 Standard input/output in 5-pin connectors.

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.

#### ← MODE - ENTER →

Level1	Level 2	Level 3	Level 4	Remark	
DMX Start Address 001				Set the DMX start address	
Special	Manual DMX			Manual control of all fixture functions	
		Pan		Manual control for Pan (X-movement)	
		Pattern Byte 1		Manual control for Pattern Byte 1 LED 1 - 7	
		Pattern		Manual control for Pattern channel / bank	
		Zoom		Manual control for Zoom	
		Speed Movements		Manual control for Pan/Tilt movements	
		Pan/Tilt Movements		Manual control for Pan/Tilt movements	
		Special			
		White Temperature		Manual control for Color temperature	
		Dimmer		Manual control for Dimmer	
		Shutter		Manual control for Shutter	
		White		Manual control for White	
		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)		
		Adjust			
			Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
			Display Contrast		Adjustment for the Display contrast
			PWM - Frequ. Adj.		Changes PMW frequency
			Pan Offset		Calibration for Pan-Offset
			Tilt Offset		Calibration for Tilt-Offset
		LED adjust			
			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	

← DOWN - UP →

← DOWN - UP →

	<b>Diagnose</b>	Diagnose fixture functions
<b>DMX Image</b>		
	<b>Set image if DMX off</b>	Activates a stored scene if DMX is off
	<b>Save image in memory</b>	Stores the scene currently sent to the unit
<b>DMX input Monitor</b>		Indicates the presently received DMX signal per DMX channel
	<b>Pan</b>	Instantaneous value for Pan
	<b>Tilt</b>	Instantaneous value for Tilt
	<b>Pattern Byte 1</b>	Instantaneous value for Pattern Byte 1
	<b>Pattern</b>	Instantaneous value for Pattern channel / bank
	<b>Zoom</b>	Instantaneous value for Zoom
	<b>Speed Movements</b>	Speed adjustment for Pan/Tilt movements → see item below
	<b>Pan/Tilt Movements</b>	Instantaneous value for Pan/Tilt movements
	<b>Special</b>	Instantaneous value for Special
	<b>White Temperature</b>	Adjustment of the color temperature for WHITE
	<b>Dimmer</b>	Instantaneous value for Dimmer
	<b>Shutter</b>	Instantaneous value for Shutter
	<b>White</b>	Instantaneous value for White
	<b>Blue</b>	Instantaneous value for Blue
	<b>Green</b>	Instantaneous value for Green
	<b>Red</b>	Instantaneous value for Red
	<b>Color Wheel</b>	Instantaneous value for Color Mixing unit
<b>Set DMX Mode</b>		Select the desired DMX Mode
	<b>Compressed Mode</b>	Fixture works in "Compressed" mode → see also section 4 below
	<b>Normal Mode</b>	Fixture works in "Normal" mode → see also section 4 below
	<b>High-Res. Mode</b>	Fixture works in "High Resolution" mode → see also section 4 below
<b>Position feedback</b>		Switch automatic position feedback ON/OFF
<b>Reverse Pan</b>		Invert Pan movements: ON/OFF
<b>Reverse Tilt</b>		Invert Tilt movements: ON/OFF
<b>Reset</b>		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-coarse			0..255	00..FF	0..100	
2) PAN-fine			0..255	00..FF	0..100	
3) Tilt-coarse			0..255	00..FF	0..100	
4) Tilt-fine			0..255	00..FF	0..100	
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2.5	
	Color 01 - Red <sup>1)</sup>		8..15	08..0F	3..5.5	
	Color 02 - Amber <sup>1)</sup>		16..23	10..17	6..8.5	
	Color 03 - Warm Yellow <sup>1)</sup>		24..31	18..1F	9..12.5	
	Color 04 - Yellow <sup>1)</sup>		32..39	20..27	13..15.5	
	Color 05 - Green <sup>1)</sup>		40..47	28..2F	16..18.5	
	Color 06 - Turquoise <sup>1)</sup>		48..55	30..37	19..21.5	
	Color 07 - Cyan <sup>1)</sup>		56..63	38..3F	22..24.5	
	Color 08 - Blue <sup>1)</sup>		64..71	40..47	25..27.5	
	Color 09 - Lavender <sup>1)</sup>		72..79	48..4F	28..30.5	
	Color 10 - Malve <sup>1)</sup>		80..87	50..57	31..34.5	
	Color 11 - Magenta <sup>1)</sup>		88..95	58..5F	35..37.5	
	Color 12 - Pink <sup>1)</sup>		96..103	60..67	38..40.5	
	White - CTO	3200K		104..111	68..6F	41..43.5
	White	5600K		112..119	70..77	44..46.5
	White - CTB	7200K		120..127	78..7F	47..49.5
	Rainbow Effect Stop <sup>2)</sup>			128	80	50
Rainbow Effect <sup>3)</sup>	slow - fast		129..223	81..DF	51..88	
Random colors	slow - fast		224..255	E0..FF	89..100	
6) Red	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100	
7) Green	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100	
8) Blue	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100	
9) White	Color mixing system - White	0 - 100%	0..255	00..FF	0..100	
10) Shutter	Shutter closed		0..15	00..0F	0..5.5	
	Shutter pulse random	slow – fast	16..47	10..2F	6..18.5	
	Up-dimming then Shutter closing (random patterns)	slow – fast	48..79	30..4F	19..31	
	Shutter open then down-dimming (random patterns)	slow – fast	80..111	50..6F	32..43	
	Up-dimming then down-dimming (random patterns)	slow – fast	112..143	70..8F	44..56	
	Strobe effect pause	5s - 0.1s		160..199	A0..C7	63..77
	Strobe effect slow - fast	1 Hz - 10 Hz		200..239	C8..EF	78..94
	Shutter open			240..255	F0..FF	95..100
11) Dimmer	Dimmer	0 - 100%	0..255	0..FF	0..100	
12) CTO	No CTO		0..7	0..07	0..2.5	
	Continuous color temperature correction	Applicable for ALL colors	8..255	08..FF	3..100	
13) Special	Pattern Block 1 → channel 17		0..3	00..03	0..1	
	Change PWM frequency		100..200	64..C8	40..78	
	<b>RESET</b>		250..255	FA..FF	98..100	
14) Movement macros	<b>No macros</b>		0	00	0	
	<b>Movement</b>	<b>Size</b>	<b>Phase</b>	Use "Speed" to adjust		
	PAN	1	0°	01..01	01..01	0.5

Channel	Function	Time and Value	DMX	HEX	%
	1	90°	02..03	02..03	1.0
	1	180°	04..05	04..05	1.7
	1	270°	06..07	06..07	2.5
	PAN	2	0°	08..09	3.3
		2	90°	10..11	4.1
		2	180°	12..13	4.9
		2	270°	14..15	5.7
	PAN	3	0°	16..17	6.5
		3	90°	18..19	7.3
		3	180°	20..21	8.0
		3	270°	22..23	8.8
	PAN	4	0°	24..25	9.6
		4	90°	26..27	10.4
		4	180°	28..29	11.2
		4	270°	30..31	12
	TILT	size / phase see PAN	32..63	20..3F	13..25
	PAN / TILT	size / phase see PAN	64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see PAN	96..127	60..7F	38..50
	Circle	size / phase see PAN	128..159	80..9F	51..62
	Circle (inverse)	size / phase see PAN	160..191	A0..BF	63..75
	Lying eight	size / phase see PAN	192..223	C0..DF	76..87
	Random movement	size / phase see PAN	224..255	E0..FF	88..100
<b>15) Speed</b>	Pan/Tilt movement speed from controller		0..1	00..01	0..0.5
<b>Pan/Tilt</b>	Pan/Tilt, slow – fast Use this channel also for the speed of the movements (channel 14).		02..255	02..FF	1..100
<b>16) Zoom</b>	Wide - narrow (spot)		0...255	00...FF	0...100
<b>17) Pattern</b>	No pattern		0..2	00..02	0..1
	Pre-defined patterns		03..253	03..FD	2..99
	Activates direct access to LED Pattern		254..255	FE..FF	100
<b>18) Pattern Byte 1</b>	Direct access to Pattern of LED 1..7		0...255	00...FF	0...100

### Compress-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
<b>1) PAN-coarse</b>			0..255	00..FF	0..100
<b>2) PAN-fine</b>			0..255	00..FF	0..100
<b>3) Tilt-coarse</b>			0..255	00..FF	0..100
<b>4) Tilt-fine</b>			0..255	00..FF	0..100
<b>5) Color (fixed)</b>	Colors adjustable via RGB		0..7	00..07	0..2.5
	Color 01 - Red <sup>1)</sup>		8..15	08..0F	3..5.5
	Color 02 - Amber <sup>1)</sup>		16..23	10..17	6..8.5
	Color 03 - Warm Yellow <sup>1)</sup>		24..31	18..1F	9..12.5
	Color 04 - Yellow <sup>1)</sup>		32..39	20..27	13..15.5
	Color 05 - Green <sup>1)</sup>		40..47	28..2F	16..18.5
	Color 06 - Turquoise <sup>1)</sup>		48..55	30..37	19..21.5
	Color 07 - Cyan <sup>1)</sup>		56..63	38..3F	22..24.5
	Color 08 - Blue <sup>1)</sup>		64..71	40..47	25..27.5

Channel	Function	Time and Value	DMX	HEX	%
	Color 09 - Lavender <sup>1)</sup>		72..79	48..4F	28..30.5
	Color 10 - Mauve <sup>1)</sup>		80..87	50..57	31..34.5
	Color 11 - Magenta <sup>1)</sup>		88..95	58..5F	35..37.5
	Color 12 - Pink <sup>1)</sup>		96..103	60..67	38..40.5
	White - CTO	Color temperature 3200K	104..111	68..6F	41..43.5
	White	Color temperature 5600K	112..119	70..77	44..46.5
	White - CTB	Color temperature 7200K	120..127	78..7F	47..49.5
	Rainbow Effect Stop <sup>2)</sup>		128	80	50
	Rainbow Effect <sup>3)</sup>	slow - fast	129..223	81..DF	51..88
	Rainbow Effect, random colors	slow - fast	224..255	E0..FF	89..100
<b>6) Red</b>	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
<b>7) Green</b>	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
<b>8) Blue</b>	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
<b>9) White</b>	Color mixing system - White	0 - 100%	0..255	00..FF	0..100
<b>10) Shutter</b>	Shutter closed		0..15	00..0F	0..5.5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31.5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect pause	5s .. 1s	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94
	Shutter open		240...249	F0..F9	95..97.5
	Shutter open		251..255	FB..FF	99..100
<b>11) Dimmer</b>	Dimmer	0 - 100%	0..255	0..FF	0..100
<b>12) Zoom</b>	Wide - narrow (spot)		0...255	00...FF	0...100
<b>13) Special</b>	Pattern Block 1 → channel 14		0..3	00..03	0..1
	Change PWM frequency		100..200	64..C8	40..78
	<b>RESET</b>		250..255	FA..FF	98..100
<b>14) Pattern</b>	No pattern		0..2	00..02	0..1
	Pre-defined patterns		03..253	03..FD	2..99

### High Resolution (Extended) -Mode 19 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
<b>1) PAN-coarse</b>			0..255	00..FF	0..100
<b>2) PAN-fine</b>			0..255	00..FF	0..100
<b>3) Tilt-coarse</b>			0..255	00..FF	0..100
<b>4) Tilt-fine</b>			0..255	00..FF	0..100
<b>5) Red-coarse</b>	Color mixing system – Red	0 - 100%	0..255	00..FF	0..100
<b>6) Red-fine</b>	Color mixing system – Red-Low		0..255	00..FF	0..100

Channel	Function	Time and Value	DMX	HEX	%
7) Green-coarse	Color mixing system – Green	0 - 100%	0..255	00..FF	0..100
8) Green-fine	Color mixing system – Green-Low		0..255	00..FF	0..100
9) Blue-coarse	Color mixing system – Blue	0 - 100%	0..255	00..FF	0..100
10) Blue-fine	Color mixing system – Blue-Low		0..255	00..FF	0..100
11) White-coarse	Color mixing system – White	0 - 100%	0..255	00..FF	0..100
12) White-fine	Color mixing system – White-Low		0..255	00..FF	0..100
13) Shutter	Shutter closed		0..15	00..0F	0..5.5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18.5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31.5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect pause	5s - 1s	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz - 10 Hz	200..239	C8..EF	78..94
	Shutter open		240...249	F0..F9	95..97.5
	Shutter open		251..255	FB..FF	99..100
14) Dimmer-coarse	Dimmer	0 - 100%	0..255	0..FF	0..100
15) Dimmer-fine	Dimmer - Low		0..255	0..FF	0..100
16) Zoom	Spot - Flood		0...255	00...FF	0...100
17) Special	Pattern Block 1 → channel 18		0..3	00..03	0..1
	Change PWM frequency		100..200	64..C8	40..78
	<b>RESET</b>		250..255	FA..FF	98..100
18) Pattern	No pattern		0..2	00..02	0..1
	Pre-defined patterns		03..253	03..FD	2..99
	Activates direct access to LED Pattern		254..255	FE..FF	100
19) Pattern Byte 1	Direct access to Pattern of LED 1..7		0...255	00...FF	0...100

<sup>1)</sup> 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 <sup>1)</sup> in the tables above the rainbow start-color will be red.

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

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

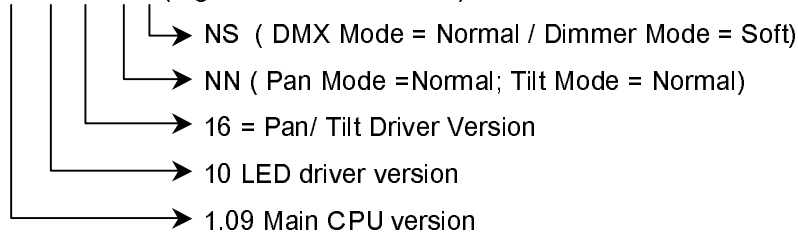
**Locking and unlocking the Control Panel**

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/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 touch lenses with bare fingers.

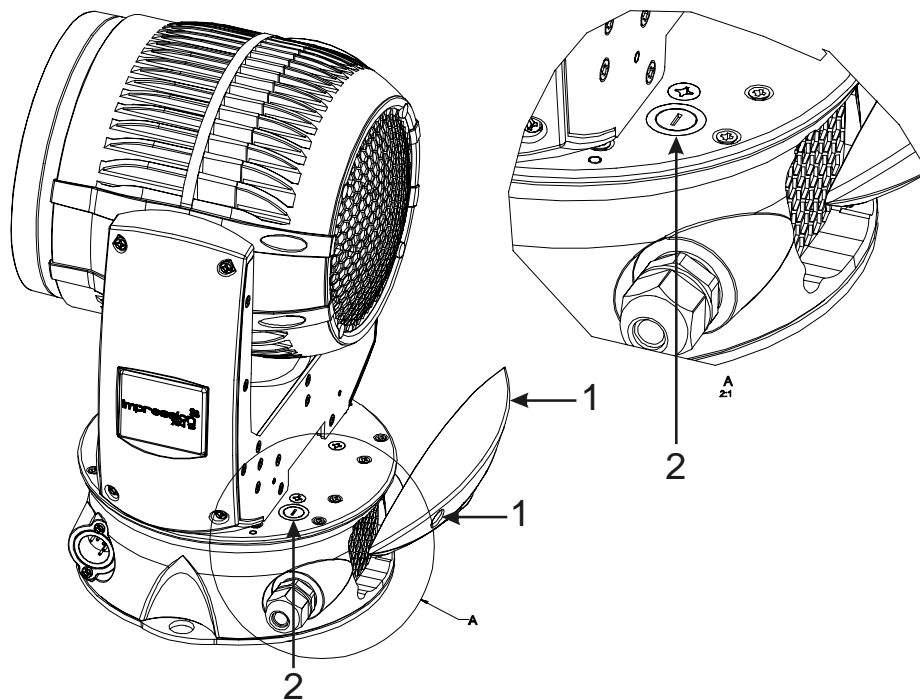
**5.3 Changing the Fuse**

**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!

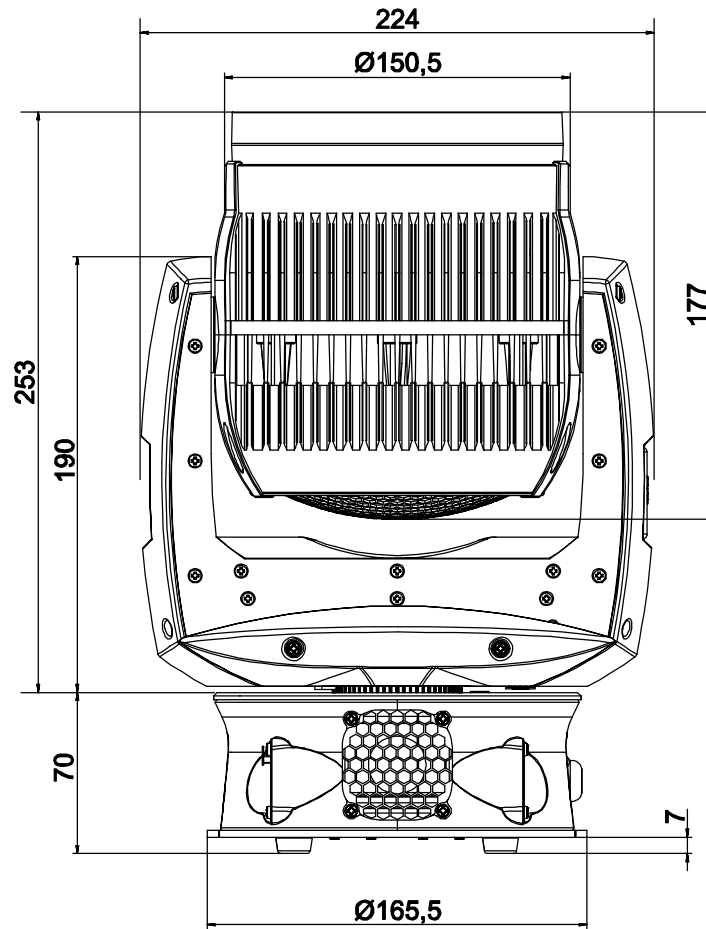
Attach the side cover again before operating the fixture.



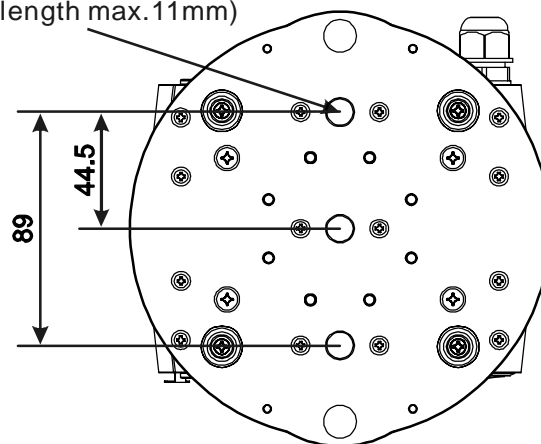
## 6 Technical Specifications

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

## 7 Dimensions



3x M10  
(length max. 11mm)



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