Manual nstruction

impression[®]



from software version: V1.16



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Notes:	



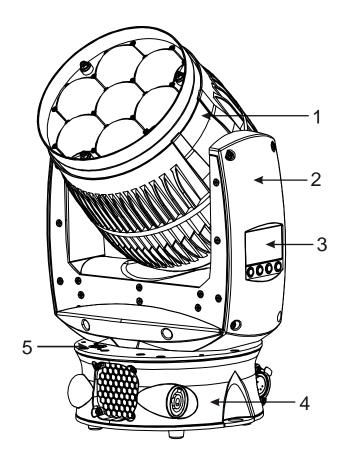
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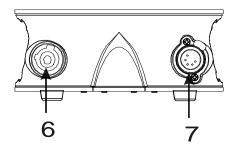


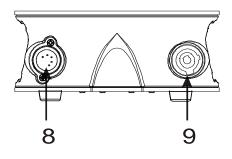
1 Description of Device

- 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 (2x)



Base sideview:





- 6. Mains Out (powerCON)
- 7. DMX- Output (5-pin)
- 8. DMX- Input (5-pin)
- 9. Mains In (powerCON)



2 Safety Instructions



The **IMPRESSION X4 S** 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.



Never look directly into the beam of light or into one of the LEDs. 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!



WARNING:

<u>Never</u> let optical parts come in contact with alcohol, solvents or similar cleaners.

- 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. <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.
- 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.
- To ensure safe operation, follow also the Installation guide described in the chapter below. Operating the IMPRESSION X4 S without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 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.
- 8. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.
- 9. Please keep this instruction manual for future reference.





Important Safety Information

The **IMPRESSION X4S** fixture 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.

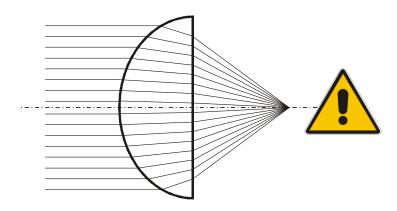
If the rays from a strong light source (such as the sun or another lighting fixture) are directed towards the front of any of these fixtures, then internal damage may occur. In a worst case scenario with a high power light source this can happen very quickly, damaging the fixture internally, potentially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

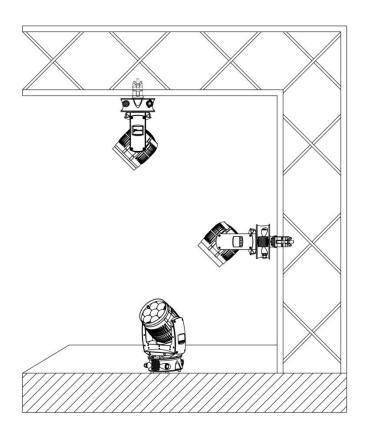




Should you have any questions about the operation of your fixture then please contact your local GLP office, or their authorized distributor, a list of which can be found at www.glp.de.

3 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.).



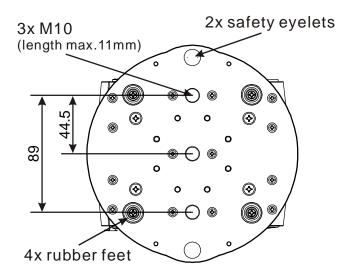


Pay attention to the regulations of: BGV C1 (former VBG 70), DIN VDE 0711-217 and BGI 810-3.

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.

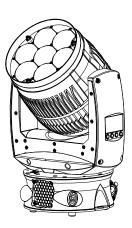




Fixture from below

3.1.1 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.

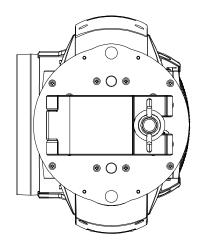


3.1.2 Mounting in hanging position

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.



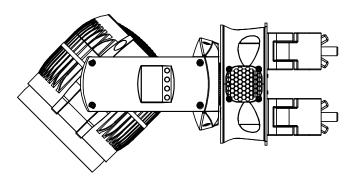




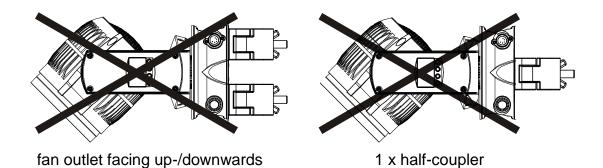
3.1.3 Mounting in sideways Position

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 cannot be assured in this way. In addition this can damage the fixture base.



2x half-couplers fan outlet <u>must</u> be facing sideways



Warning: Risk of fire and electric shock



3.2 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.

3.3 Connections

3.3.1 Power Supply

~100-240 Volt AC, 50-60 Hz, powerCON AC connector

Connected load 110 VA (W) <=> T2A (2x micro-fuse 5x20mm)

Please also see the printing on the case!

Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.

3.3.2 NEUTRIK® powerCON

The IMPRESSION X4S is fitted with NEUTRIK® powerCON locking 3 conductor AC connectors.

The grey connector must be used to draw AC mains power from the fixtures` throughput sockets and the blue connectors must be used to supply power at the fixtures` power input socket.

The total number of fixtures in one interconnected chain depends on your local AC mains voltage but you must never connect more than a total load of 20A to stay within the limits of the connector. The total load includes all connected fixtures including the first one in the chain.

Note: The maximum allowed total - load is <u>20A</u> including the first fixture in <u>one</u> interconnected daisy chain.

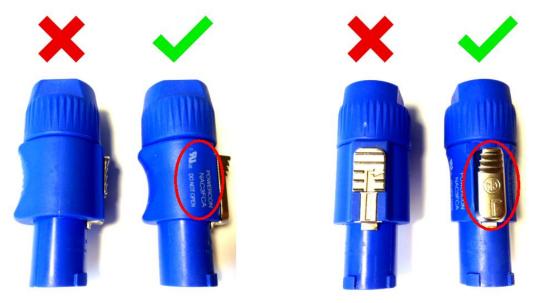


Picture: Courtesy of NEUTRIK® AG



Please note that there are two different generations of NEUTRIK® powerCON connectors (Type NAC3FCA). Due to different mechanical dimensions, only the newer version of these two can be used for **impression X4S** fixtures.

You can identify the correct version by the imprint on the side and the NEUTRIK® Logo on the lock latch.



3.3.3 DMX

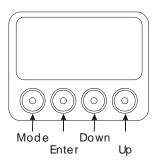
USITT DMX-512 Standard input/output in 5-pin connectors.

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

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

4 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
\wedge			Zoom		Manual control for Zoom
UP.			Speed Movements		Manual control for Pan/Tilt movements
, Z			Pan/Tilt Movements		Manual control for Pan/Tilt movements
⋚			Special		Manual control for Special functions
- DOWN -			White Temperature		Manual control for Color temperature
$\mathbf{\Psi}$			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		Use the code for entering the calibration menu
			XXXX		(for authorized persons only)
			Display Contrast		Adjustment for the Display contrast
			PWM - Frequ. Adj.		Changes PMW frequency
			Max Zoom adjust		Calibration of Zoom-offset
			Pan Offset		Calibration for Pan-offset
			Tilt Offset		Calibration for Tilt-offset
			LED 100mA/1A adjust		Adjust dimming of the LEDs
			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
		BL- Diagnose		Diagnose of Boot-loader
		Diagnose		Diagnose fixture functions
	Temperature Head			Read out head temperature
	Default full eature			Reset all settings to factory defaults
	Display Black out			Auto switch-off display illumination after 10 seconds
1	OMX hold			Holds last DMX signal in case of signal loss
1	DMX Image			
_		Set image if DMX off		Activates a stored scene if DMX is off
_		Save image in memory		Stores the scene currently sent to the unit
r	Set dimming mode			Linear Dimming / Extr. soft dimming / Soft dimming
	OMX input Monitor	_		Indicates the presently received DMX signal per DMX channel
		Part		Instantaneous value for Pan
		Pattern Byte 1		Instantaneous value for Pattern Byte 1
		Pattern		Instantaneous value for Pattern channel / bank
		Zoom		Instantaneous value for Zoom
		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
		White Temperature		Adjustment of the color temperature for WHITE
		Dimmer Shutter		Instantaneous value for Dimmer Instantaneous value for Shutter
		White	•	Instantaneous value for White
		Blue	ŀ	Instantaneous value for Blue
		Green		Instantaneous value for Green
		Red		Instantaneous value for Red
		Color Wheel		Instantaneous value for Color Mixing unit
		Tilt		Instantaneous value for Tilt
Self test program				Initiates a self-test program
Live time				On-time of fixture
Set DMX Mode				Select the desired DMX Mode
	Compressed Mode			Fixture works in "Compressed" mode → see also section 5 unterhalb
=	Normal Mode			Fixture works in "Normal" mode → see also section 5 unterhalb
	High-Res. Mode			Fixture works in "High Resolution" mode → see also section 5 unterhalb
Position feedback				Switch automatic position feedback ON/OFF
Reverse Pan				Invert Pan movements: ON/OFF
Reverse Tilt				Invert Tilt movements: ON/OFF
Reset				RESET and new calibration for all functions



5 DMX Channel Selection (DMX Protocol)

5.1 Normal-Mode 18 DMX channels

Channel	Function			Time and Value	DMX	HEX	%
1) PAN-					0255	00FF	0100
coarse							
2) PAN-fine					0255	00FF	0100
3) Tilt- coarse					0255	00FF	0100
4) Tilt-fine					0255	00FF	0100
5) Color	Coloro odiuo	toble via DC	·DW		0233		0100
(fixed)	Colors adjust	table via RG	BVV		815	0007 080F	35.5
(lixeu)	Color 02 - Ar	30 1)			1623	1017	68.5
	Color 03 - W		1)		2431	181F	912.5
	Color 04 - Ye				3239	2027	1315.5
	Color 05 - Gr				4047	282F	1618.5
	Color 06 - Tu				4855	3037	1921.5
	Color 07 - Cy	van ¹⁾			5663	383F	2224.5
	Color 08 - Bl	ue 1)			6471	4047	2527.5
	Color 09 - La				7279	484F	2830.5
	Color 10 - Ma	alve (Mauve	1)		8087	5057	3134.5
	Color 11 - Ma	agenta 1)			8895	585F	3537.5
	Color 12 - Pi	nk ¹⁾			96103	6067	3840.5
	White - CTO			3200K	104111	686F	4143.5
	White			5600K	112119	7077	4446.5
	White - CTB			7200K	120127	787F	4749.5
	Rainbow Effe	ect Stop 2)			128	80	50
	Rainbow Effe	ect 3)		slow - fast	129223	81DF	5188
	Random colo	ors		slow - fast	224255	E0FF	89100
6) Red	Color mixing	system - Re	∍d	0 - 100%	0255	00FF	0100
7) Green	Color mixing	system - Gr	een	0 - 100%	0255	00FF	0100
8) Blue	Color mixing	system - Bli	ue	0 - 100%	0255	00FF	0100
9) White	Color mixing	system - W	hite	0 - 100%	0255	00FF	0100
10) Shutter	Shutter close				015	000F	05.5
, , , , , , , , , , ,	Shutter pulse			slow - fast	1647	102F	618.5
	Up-dimming	then Shutter	rclosing	slow – fast	4879	304F	1931
	(random patt Shutter open		dimmina				
	(random patt	terns)		slow – fast	80111	506F	3243
	Up-dimming (random patt		ımmıng	slow - fast	112143	708F	4456
	Strobe effect	pause		5s - 0.1s	160199	A0C7	6377
	Strobe effect	slow - fast		1 Hz - 10 Hz	200239	C8EF	7894
	Shutter open	1			240255	F0FF	95100
11) Dimmer	Dimmer			0 - 100%	0255	0FF	0100
12) CTO	No CTO				07	007	02.5
	Continuous o	color temper	ature	Applicable for ALL	8255	08FF	3100
42) Cm : - !	correction		0147	colors			
13) Special	Pattern Block				03	0003	01
	Change PWI	vi frequency			100200	64C8	4078
4.4\ 84	RESET				250255	FAFF	98100
14) Move-	No macros	C:	Dhasa	I I a a WOmana III (a a II)	0	00	0
ment	Movement	Size	Phase	Use "Speed" to adjust	04 04	04.04	0.5
macros	PAN	1	0°		0101	0101	0.5
		1	90°		0203	0203	1.0
		1	180°		0405	0405	1.7



Channel	Function	1		Time and Value	DMX	HEX	%
		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 / TIL		size / phase		6495	405F	2637
		T (inverse)		see PAN	96127	607F	3850
	Circle			see PAN	128159	809F	5162
	Circle (inv		size / phase		160191	A0BF	6375
	Lying eigh		size / phase		192223	C0DF	7687
		movement	size / phase	see PAN	224255	E0FF	88100
15) Speed	Pan/Tilt m	novement spee	d from		01	0001	005
Pan/Tilt		slow – fast					_
		channel also fo			02255	02FF	1100
	the move	ments (channe	l 14).				
16) Zoom	Wide - na	rrow (spot)			0255	00FF	0100
17) Pattern	No patter	n			02	0002	01
		ed patterns			03253	03FD	299
	Activates	direct access t	o LED Pattern		254255	FEFF	100
18) Pattern Byte 1	Direct acc	cess to Pattern	of LED 17		0255	00FF	0100



5.2 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- coarse			0255	00FF	0100
4) Tilt-fine			0255	00FF	0100
5) Color	Colors adjustable via RGBW		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) Color 08 - Blue 1)		5663	383F	2224.5
			6471	4047	2527.5
	Color 10 - Malvo (Mauvo) 1)		7279	484F	2830.5
	Color to - Maive (Mauve)		8087	5057	3134.5
	Color 11 - Magenta 1) Color 12 - Pink 1)		8895 96103	585F	3537.5
	White - CTO	Color tomporatura	104111	6067 686F	3840.5 4143.5
		Color temperature 3200K			
	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 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
					7894
	Strobe effect, slow - fast	1 Hz 10 Hz	200.239	C8EF	1094
		1 Hz 10 Hz	200.239	C8EF F0F9	9597.5
	Strobe effect, slow - fast	1 Hz 10 Hz			
11) Dimmer	Strobe effect, slow - fast Shutter open	1 Hz 10 Hz 0 - 100%	240249	F0F9	9597.5
11) Dimmer 12) Zoom	Strobe effect, slow - fast Shutter open Shutter open		240249 251255	F0F9 FBFF	9597.5 99100
	Strobe effect, slow - fast Shutter open Shutter open Dimmer		240249 251255 0255 0255	F0F9 FBFF 0FF	9597.5 99100 0100
12) Zoom	Strobe effect, slow - fast Shutter open Shutter open Dimmer Wide - narrow (spot) Pattern Block 1 → channel 14 Change PWM frequency		240249 251255 0255 0255	F0F9 FBFF 0FF	9597.5 99100 0100 0100
12) Zoom	Strobe effect, slow - fast Shutter open Shutter open Dimmer Wide - narrow (spot) Pattern Block 1 → channel 14		240249 251255 0255 0255	F0F9 FBFF 0FF 00FF	9597.5 99100 0100 0100 01
12) Zoom	Strobe effect, slow - fast Shutter open Shutter open Dimmer Wide - narrow (spot) Pattern Block 1 → channel 14 Change PWM frequency		240249 251255 0255 0255 03 100200	F0F9 FBFF 0FF 00FF 0003 64C8	9597.5 99100 0100 0100 01 4078



5.3 High Resolution (Extended) -Mode 19 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse			0255	00FF	0100
2) PAN-fine			0255	00FF	0100
3) Tilt-			0255	00FF	0100
coarse			000		011.00
4) Tilt-fine			0255	00FF	0100
5) Red- coarse	Color mixing system – Red	0 - 100%	0255	00FF	0100
6) Red- fine	Color mixing system – Red-Low		0255	00FF	0100
7) Green- coarse	Color mixing system – Green	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
44) 5:	Shutter open	2 4224	251255	FBFF	99100
14) Dimmer-	Dimmer	0 - 100%	0255	0FF	0100
coarse 15) Dimmer-	Dimmer - Low		0.055	0 55	0.100
fine	Diffiller - 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.

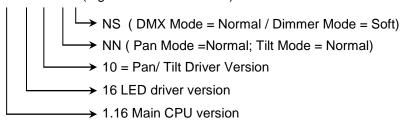


Locking and unlocking the Control Panel

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. V1.16/10/16/NN/NS)



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 point ¹⁾ before).



6 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!



Attention:

Under <u>no</u> circumstances should alcohol or solvents be used to clean the lenses!

6.1 Safety regulations

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

6.2 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, fat, alcohol or similar solvents.
- Before running the fixture wait until all parts are dry.
- Never touch lenses with bare fingers.



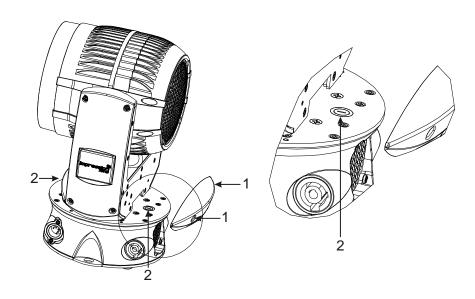
6.3 Changing the Fuse

Follow the safety regulations as described above!

There are two micro-fuses (2) located opposite of each other 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(s) 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.



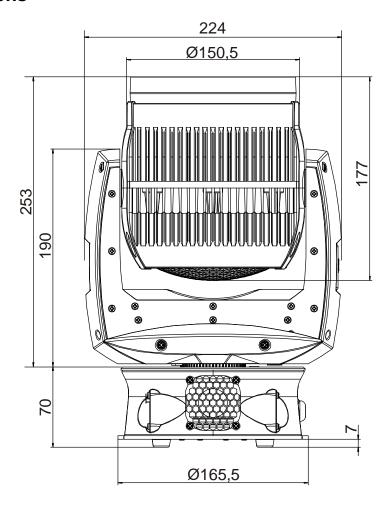


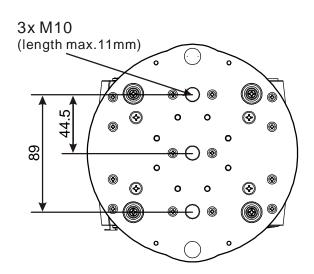
7 Technical Specifications

Power supply	
Power consumption	110 VA (Watt)
Power Input	~100-240 V AC, 50-60 Hz (wide range input)
Power connectors	NEUTRIK [®] powerCON
	Power-in: NAC3FCA / NAC3MPA (blue)
	Power-out: NAC3FCB / NAC3MPB (grey)
Fuse protection	2x Micro-fuse 5x20 mm, T2A
Operational Parameters	
Max. Ambient Temperature	5° - 45°C (integrated overheating switch)
Mounting Position	Any (see relevant chapter)
Lighting System - Additi	ve Color mixing
LED Type	7 x Osram Ostar RGBW multi-chip
Lifetime	50,000 h
Wavelength optimized for	maximum presentable color space
Optical System	
Full RGBW / High efficient	Collimator cluster
Shutter / Dimmer (8/16 B	it)
Strobe- Effect with variable Effects	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-
Continuous Dimmer 0 - 10	0%
Zoom	
7 to 50 degree continuous	zoom
Optical Patterns	
Several pre-defined beam	patterns with direct access and manipulation
DMX Control	
Standard USITT DMX-512	2, 5-pin XLR; [+] = Pin 3 / [-] = Pin 2 / [Ground] = Pin 1 / Pin 4&5 N.C.
The DMX- Addressing star	rts at the DMX channel [001].
Pan / Tilt (8/16 Bit)	
Pan- movement	630° in min. 3,2 seconds (Position Feedback)
Tilt- movement	220° in min. 1,5 seconds (Position Feedback)
Weights and Measures	
Base only	Ø 165,5 mm
Total width of fixture	224 mm
Hight (head vertical)	323mm
Weight (net)	5.5 kg



8 Dimensions





Fixture from below



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