impression **

WYDD & DWW

struction Manua



from software version 1.00/03 (Instruction version 1.14)



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WWO & COW

WWC version: 42x LEDs cold white, 78x LEDs warm white



This manual serves for both systems the **IMPRESSION 120 RZ WWC** as well as the **IMPRESSION 120 RZ CCW.** The two systems differ from each other only by the number of cold- respectively warm- white LEDs.

CCW version: 78x LEDs cold white, 42x LEDs warm white					
Notes:					

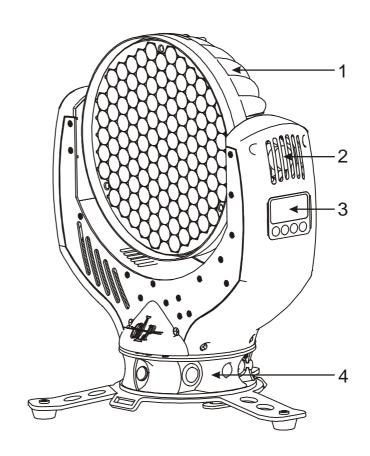
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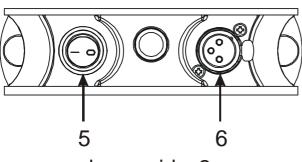


1 Description of Device

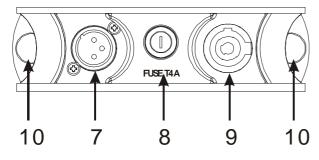
- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system



base side 1



base side 2



- 5. Power On/Off
- 6. DMX- Output (3 pole)
- 7. DMX-Input (3 pole)
- 8. Micro-fuse 5x20mm, T5A
- 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.
- 7. 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.



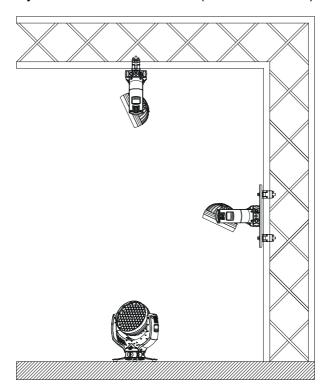
Pressure in these areas could result in damages which will not be covered by the standard warranty.

- 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.).

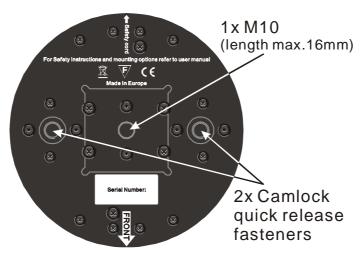




Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.

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.

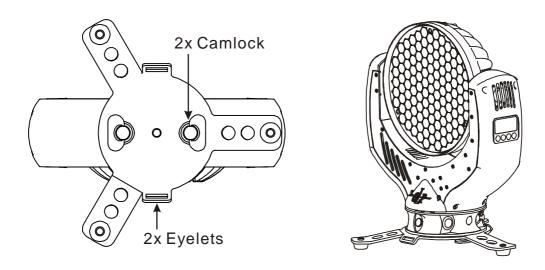


front side of the fixture

2.1.1 Mounting on the floor (upright)

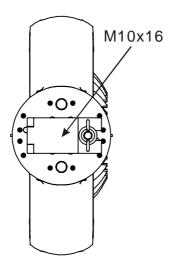
To operate the IMPRESSION in an upright position, please use the dedicated floor-stand which ships with all original fixtures. The floor stand is mounted to the base of the fixture using the two Camlock quarter turn fasteners. Line up and engage the camlock connectors from the floor stand into the base 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.

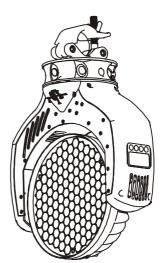




2.1.2 Mounting in hanging position (head down)

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.

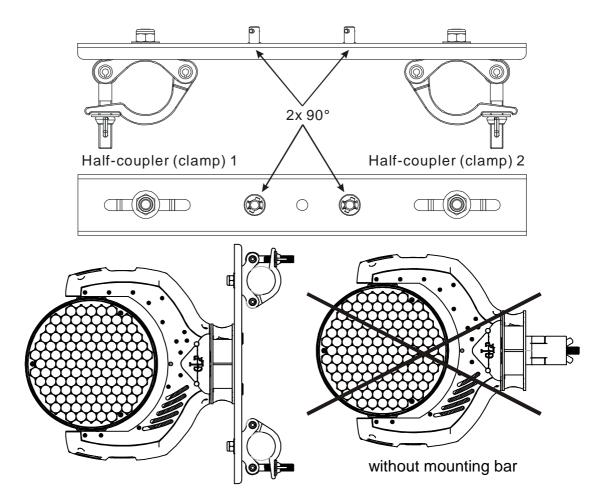




2.1.3 Mounting in a sideway position

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 Securing 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) <=> T5A (micro-fuse 5x20mm)

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

2.3.2 DMX

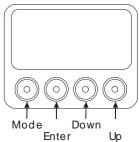
USITT DMX-512 Standard input/output with 3 pole connectors.

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

The DMX- Addressing starts at 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.



					Enter Op
	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 → see also item below
			Pan/Tilt Movements		Manual control for Pan/Tilt movement
			Special		Activate the White- or Full-Power Mode; see also DMX table
			Dimmer		Manual control for dimmer
			Shutter		Manual control for shutter
^			1/3 White		Manual control for 1/3 white, 30x LEDs (either warm- or cold white depending on the system)
UP.			2/3 White		Manual control for 2/3 white, 60x LEDs (either warm- or cold white depending on the system)
7		Tilt	Zoom		Manual control for zoom
DOWN -			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
			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
			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 Position			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption Automatically position feedback (correction) for
	Feedback Set DMX			Pan/Tilt movement
	Image			Stores the Scene currently sent to the unit
	DMX input Monitor			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
		1/3 White		Current value for 1/3 White, 30x LEDs (either warm- or cold white depending on the system)
		2/3 White		Current value for 2/3 White, 60x LEDs (either warm- or cold white depending on the system)
		Zoom		Instantaneous value for Zoom
		Tilt		Instantaneous value for Tilt movement
Self test				Performs an automatic self-test
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 → see also sectiion 4

Normal

Fixture works in "Normal" mode → see also section 4







	High- Resolution
Reverse Pan	
Reverse Tilt	
Reset	

Fixture works in "High Resolution" mode → see also section 4

Selects Inverse Pan, on or off

SelectsInverse Tilt on or off

RESET all functions

4 DMX Channel Selection (DMX Protocol)

Normal-Mode 12 DMX channels

Channel	Function			Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°			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°			1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)				0255	00F F	0100
5) White 2/3	White Color, 60x LEDs (either warm- or cold white depending on the system)			0 - 100%	0255	00FF	0100
6) White 1/3	White Color, 30x LEDs (either warm- or cold white depending on the system)			0 - 100%	0255	00FF	0100
7) Shutter	Shutter close	ed .	·		015	000F	05,5
	Random Puls			slow - fast	1647	102F	618,5
	Up-dimming (random patt		er closing	slow - fast	4879	304F	1931
	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			5s 1s	144199	A0C7	5777
	Strobe effect	, slow - fas	t	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open				240255	F0FF	95100
8) Dimmer	Dimmer			0 - 100%	0255	0FF	0100
9) Special	Fan min. as long as temp. < 90℃				224229	E0E5	8889,5
, .	RESET (Nor				250255	FAFF	98100
10) Move-	No moveme	nt			0	00	0
ment	Movement	Size	Phase				
	PAN	1	0°		0101	0101	0,5
		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







Channel	Function			Time and Value	DMX	HEX	%
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT	•	size / phase	see also PAN	3263	203F	1325
	PAN / TILT		size / phase	see also PAN	6495	405F	2637
			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 mov	vement	size see als	o PAN	224255	E0FF	88100
11) Speed	Pan/Tilt rela	tive movemen	t		01	0001	00,5
Pan/Tilt	Pan/Tilt slov	v – fast		Pan Min. 660° = 200s	2255	02FF	1100
	Use this channel 14) also for the speed		Pan Max. 660°= 3,2s				
	of the movements (channel 13).		Tilt Min. 300°= 110s				
				Tilt Max. 300°= 1,5s			
12) Zoom	Spot - Flood			10°- 26°	0255	00FF	0100

Compress-Mode 9 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	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°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00FF	0100
5) White 2/3	White Color, 60x LEDs (either warm- or cold white depending on the system)	0 - 100%	0255	00FF	0100
6) White 1/3	White Color, 30x LEDs (either warm- or cold white depending on the system)	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 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
9) Zoom	Spot - Flood	10°- 26°	0255	00FF	0100



High Resolution (Extended) - Mode 12 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°	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°	1,5 s	0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2°(16 Bit)		0255	00FF	0100
5) White 2/3 coarse	White Color, 60x LEDs (either warm- or cold white depending on the system)	0 - 100%	0255	00FF	0100
6) White 2/3 fine	White - fine/low		0255	00FF	0100
7) White 1/3 coarse	White Color, 30x LEDs (either warm- or cold white depending on the system)	0 - 100%	0255	00FF	0100
8) White 1/3 fine	White - fine/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
12) Zoom	Spot - Flood	10°- 26°	0255	00FF	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.





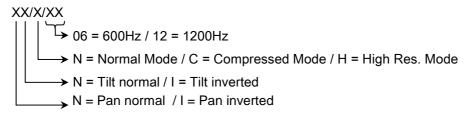


In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).

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:



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 (wide range input)					
Fuse protection	Micro-fuse 5x20 mm, T5A					
Operational Parameters						
Max. Ambient Temperature	45℃ (integrated overheating switch)					
Mounting Position	Any (see chapter mounting)					
Lighting System - Additiv	ve Color mixing					
LED Type	120x Rebel High-power- LEDs					
Lifetime	50.000 h					
	Os cold white, 42x LEDs warm white					
→ WWC version: 42x LEI	Os cold white, 78x LEDs warm white					
Optical System						
High efficient Collimator cl	uster					
Fixed optical mount with a	n angel of reflected beam between 10°- 26°					
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%					
DMX Control						
	t, 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- movement 300° in min. 1,5 seconds (Position Feedback)						
Weights and Measures						
Width of the base	340 mm					
Length of the base	145 mm					
height (head vertical)	370 mm					
Weight (net)	8.0 kg					



WWG & GGW



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