struction Manua



from software version 0.9 (instruction version 1.01)



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Notes:	





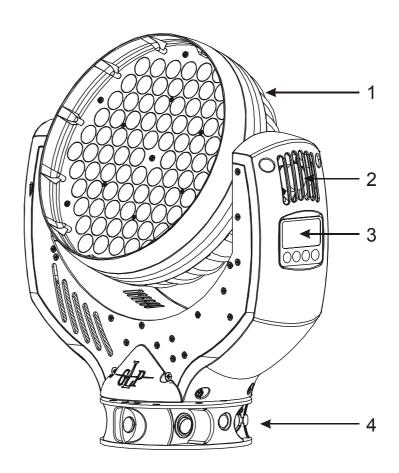
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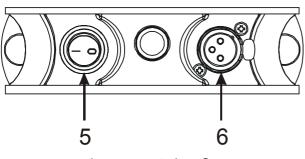


1 Description of Device

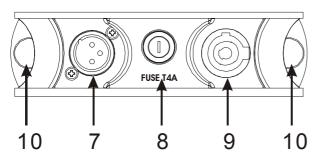
- Moving head (actively and passively cooled)
- 2. Arm with various cooling vents
- 3. LCD-Display/Menu (data entry)
- Base with various connectors and Camlock mounting system



base side 1



base side 2



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





1.1 Safety Instructions



The **IMPRESSION** is 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 of damages through any disregard of the information in this manual. Warranty claims also will be cancelled in case the system casing is opened.

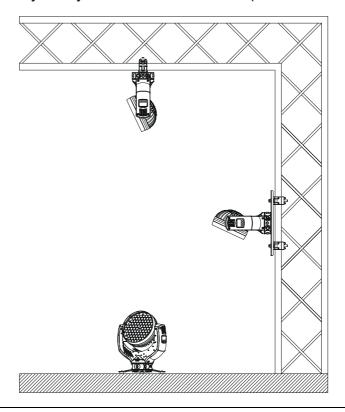
- 1. Make sure before putting the system into operation, that the fan and the air inlets are clean and not blocked by anything.
- 2. It must be assured that the system-head can rotate unhindered throughout his complete rotating range. A safety distance of at least 0.5 m to any easily inflammable material (e.g. decoration material) must be adhered.
- 3. <u>Attention!</u> Don't touch the device during the operation. This can cause injuries or damages.
- 4. The system doesn't contain any maintainable parts. Don't open it!
- It is necessary to wait at least 15 minutes after disconnecting the AC before changing the optical carrier. Pay attention to possibly hot parts of the system. <u>-- Danger of BURNING --</u>
- 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> You'll risk a serious injury of your eyes and in particular of your retina.
- 7. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **IMPRESSION** without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
- 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 explicit mentioned in this manual.
- 9. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.



2 Preparation and Installation

2.1 Mounting

The **IMPRESSION** 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 0.5 m towards any easily inflammable materials (decoration etc.).



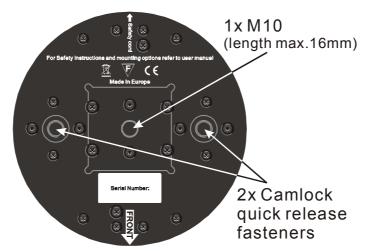


Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.

The installation shall be done by qualified staff only.

For the various mounting positions of the **IMPRESSION** (standing on the floor, sideways or hanging) different accessories kits are available. Through this a safe and firm installation is assured. You'll find special connectors on the bottom side of the system which are put to use here. In addition the front side of the system is marked with (FRONT) as this is important for a even orientation during installation.

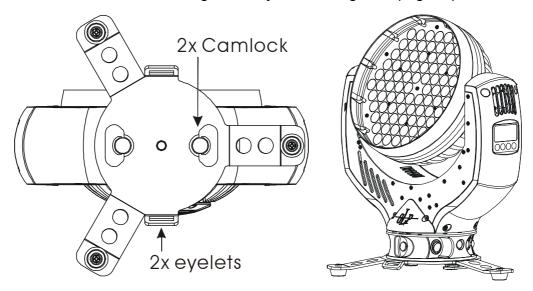




front side of the fixture

2.1.1 Mounting on the Floor (Upright)

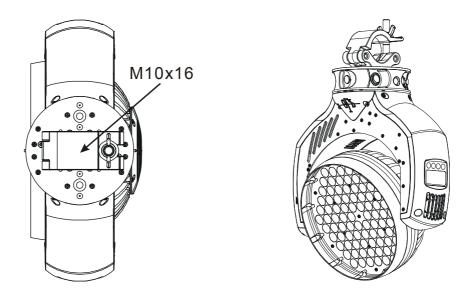
To operate the **IMPRESSION** in an upright position, please use the dedicated tripod which is mounted to the bottom side of the system. It is fixed with fasteners called Camlock quick-release connectors. Turn the two fasteners both 90° to lock them. Do the opposite to release them again. On both sides you'll find eyelets to pull though a fixing strap. This allows an additional bracing of the system during the upright operation.



2.1.2 Mounting in hanging Position (Head first)

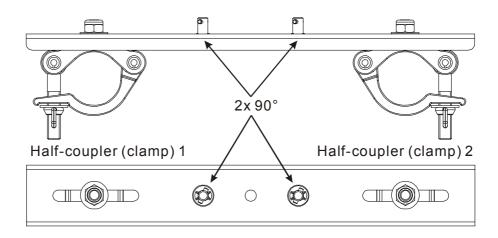
To operate the **IMPRESSION** in an hanging position, please use a half-coupler (clamp) which is mounted directly to the bottom side of the system. It is fixed centrically with a M10x16 mm thread bolt.



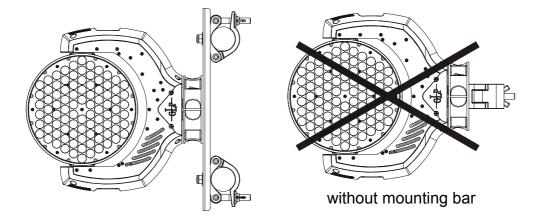


2.1.3 Mounting in sidewise Position

To operate the **IMPRESSION** in a sidewise position, please use an addition mounting bar. Also this is fixed by two Camlock quick-release connectors. Two half-couplers (clamps) are now used to mount the system to a standard truss bar. This technique is necessary to cope with the torque which accrues in this mounting position. In addition it allows a concentrically position between two truss belts. Never use the "Mounting in hanging Position" technique described above to fasten the system in the sidewise position. A safe and sound installation can not be assured in this way. This can also damage the system base.







2.2 Secure the Device

Regardless of the mounting method of the **IMPRESSION** you'll have to use a stipulated safety wire. Therefore you have to pull the safety wire through to two provided holes on the bottom side of the system and connect it with the truss-support. Pay attention to a safe and proper fastening. Install a safety wire that can hold at least 10 times the weight of the fixture. Never use the carrying handles for this purpose.

2.3 Connections

2.3.1 Power Supply

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

Connected load 350 VA (W) <=> 4 AT (micro-fuse 5x20mm)

Please see printing on the case for the right electronic supply!

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

2.3.2 DMX

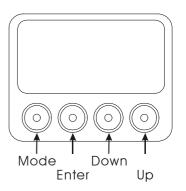
USITT DMX-512 Standard input/output in 3 pole connectors.

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

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

3 The Menu Field

You'll find the control board on the side part 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 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.



← MODE - ENTER →

	Level1	Level 2	Level 3	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)
			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
			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)
		Default Set		Resetting all functions to original values
		Adjust	Key code	Use the code for entering the calibration menu (for authorized
个		Aujust	XXXX	persons only)
UP 小			Pan Offset	Calibration for Pan-Offset
			Tilt Offset	Calibration for Tilt-Offset
Z			Adjust LED current	Calibration for LED current
- DOWN -			Clear EEPROM	Erase EEPROM
→		Temperature Arm		Indicates the arm temperature
		Temperature Head		Indicates the head temperature
		Lamp Off if		Defines whether the last DMX signal is stored or the lamp is
		DMX off		switched OFF in case of signal interruption
		Position		Automatically position feedback (correction) for Pan/Tilt
		Feedback		movement
		White Adjust		Adjustments for a uniform white color (white balance); only in white-mode
			Red	Input for red adjustments
			Blue	Input for blue adjustments
			Green	Input for green adjustments
		DMX input Monitor		Indicates the presently received DMX signal per DMX channel
			Pan	Instantaneous value for Pan
			Pan/Tilt Movements	Instantaneous value for Pan/Tilt movements





			Special	Instantaneous value for Special	
			Dimmer	Instantaneous value for Dimmer	
			Shutter	Instantaneous value for Shutter	
•			Blue	Instantaneous value for Blue	
T			Green	Instantaneous value for Green	
<u> </u>			Red	Instantaneous value for Red	
_			Color	Instantance very value for Color M/h col	
7			Wheel	Instantaneous value for Color Wheel	
DOWN			Tilt	Instantaneous value for Tilt movement	
Õ	Live time			Indicates the overall operation time of the system	
\Box	Display			Adjust the display	
$\mathbf{\Psi}$		Blackout		ON/OFF: Display OFF	
		Reverse		ON/OFF: Display upside down	
	Compressed		-	ON/OFF: Only 10 DMX channels are being used if this Mode is	
	Mode			activated	
	White Mode			ON/OFF: Adjustments for white-balance are activated	
	Reverse Pan			ON/OFF: Invert Pan movements	
	Reverse Tilt			ON/OFF: Invert Tilt movements	
	Reset			RESET and new calibration for all functions	
	·				

4 DMX Channel Selection (DMX Protocol)

Normal-Mode 14 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°	min. 3,2 s	0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt-	0 300°	min. 1,5 s	0255	00FF	0100
coarse					
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Cyan		815	080F	35,5
	Color 02 - Magenta		1623	1017	68,5
	Color 03 - Yellow		2431	181F	912,5
	Color 04 - Lavender		3239	2027	1315,5
	Color 05 - Dark Lavender		4047	282F	1618,5
	Color 06 - Amber		4855	3037	1921,5
	Color 07 - Deep Golden		5663	383F	2224,5
	Color 08 - Dark Blue		6471	4047	2527,5
	Color 09 - Pink		7279	484F	2830,5
	Color 10 - Lime Green		8087	5057	3134,5
	Color 11 - Light Blue		8895	585F	3537,5
	Color 12 - Red		96103	6067	3840,5
	Color 13 - Green		104111	686F	4143,5
	Color 14 - Blue		112119	7077	4446,5
	White		120127	787F	4749,5
	Rainbow Effect	slow - fast	128255	80FF	50100
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) Shutter	Shutter closed		015	000F	05,5
	Random Strobe (different pattern)		1647	102F	618,5





Channel	Function			Time and Value	DMX	HEX	%
	Strobe Pulse effect , slow - fast			4879	304F	1931,5	
	Strobe, slow - fast		1 Hz 10 Hz	80239	50EF	3294,5	
	Shutter open			240255	F0FF	95100	
10) Dimmer	Dimmer (0%	, - 100%)			0255	0FF	0100
11) Color		color temperati		7200k - 3200k	0255	0FF	0100
temperature		etween 7200k -	- 3200k				
12) Special	Max. Power-	. ,		Max. light output without white balance		00F	05,5
	White-Mode			White balance used	1631	101F	612,5
	Color1-Chas slow – fast			0,7 BPS 2,3 BPS => 1,43 s 0,43 s	112127	707F	4449,5
	Color1-Chas slow – fast	ser C/C+2		0,7 BPS 2,0 BPS => 1,43 s 0,5 s	128143	808F	5056,5
	Fan min. as	long as temp.	< 60°C		224229	E0E5	8889,5
	RESET (No	rmal Mode)			250255	FAFF	98100
13) Move-	No moveme				0	00	0
ment	Movement	Size	Phase				
	PAN	1	0°		0101	0101	0,5
		1	90°		0203	0203	1,0
		1	180° 270°		0405	0405	1,7
	PAN	2	0°		0607 0809	0607 0809	2,5 3,3
	PAIN	2	90°		1011	0809 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° 270°		2829	1C1D 1E1F	11,2
	TILT	4		ann also DAN	3031 3263	203F	12 1325
	TILT size / phase		see also PAN	6495	405F	2637	
			see also PAN	96127	607F	3850	
			see also PAN	128159	809F	5162	
			see also PAN	160191	A0BF	6375	
			see also PAN	192223	C0DF	7687	
	random movement size see also		o PAN	224255	E0FF	88100	
14) Speed	Pan/Tilt rela	ative movement	t		015	000F	06
Pan/Tilt Slow – fast Use this channel 14) also for the speed of the movements (channel 13).			Pan Min. 530° = 200 s Pan Max. 530° = 2,65 s Tilt Min. 285° = 110 s	16255	10FF	7100	
				Tilt Max. 285° = 1,8 s			<u> </u>





Compress-Mode 10 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°	min. 3,2 s	0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt-	0 300°	min. 1,5 s	0255	00FF	0100
coarse					
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Cyan		815	080F	35,5
	Color 02 - Magenta		1623	1017	68,5
	Color 03 - Yellow		2431	181F	912,5
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	Color 06 - Amber		4855	3037	1921,5
	Color 07 - Deep Golden		5663	383F	2224,5
	Color 08 - Dark Blue		6471	4047	2527,5
	Color 09 - Pink		7279	484F	2830,5
	Color 10 - Lime Green		8087	5057	3134,5
	Color 11 - Light Blue		8895	585F	3537,5
	Color 12 - Red		96103	6067	3840,5
	Color 13 - Green		104111	686F	4143,5
	Color 14 - Blue		112119	7077	4446,5
	White		120127	787F	4749,5
	Rainbow Effect	slow - fast	128255	80FF	50100
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) Shutter	Shutter closed		015	000F	05,5
,	Random Strobe (different pattern)		1647	102F	618,5
	Pulse effect , slow - fast		4879	304F	1931,5
	Strobe, slow - fast	1 Hz 10 Hz	80239	50EF	3294,5
	Shutter open		240249	F0F9	9597,5
	RESET	Min. 3 Sec.	250	FA	98
	Shutter open		251255	FBFF	99100
10) Dimmer	Dimmer (0% - 100%)		0255	0FF	0100

(*) Max. Power-Mode vs. White-Mode

The **IMPRESSION** can regard the white-balance adjustments for each individual color setting. Whether the White-Mode is used with RGB can be selected in the **Normal DMX-Mode** during operation with the Special DMX channel. If the Special channel is set to a value between DMX 0..15, the White-Mode is not used and the RGB goes for the maximum light output. If the Special channel is set to a value between DMX 16..31, the white balance is used for the RGB output.

Since there is no Special DMX channel in the **Compress DMX-Mode**, the possibility exists to likewise select these settings also in the display menu. Is the White-Mode set to "ON", the white-balance is activated. If the White-Mode is set to "OFF", the RGB goes for the maximum light output (Max. Power-Mode).





5 Maintaining and Cleaning the IMPRESSION

The **IMPRESSION** is a system of very low maintenance. It is only necessary to clean the air in- and outlets as well as the optical LED lenses from time to time. For a safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not built 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 main plug!
- Wait min. 15 minutes after the last operation to cool down the fixture.

5.2 Circumference 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 practice 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 dried up.
- Never tough 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, T 4A			
Operational Parameters				
Max. Ambient	45°C (integrated overheating switch)			
Temperature				
Mounting Position	Any (see chapter mounting)			
Lighting System - Additi	ve Color mixing			
LED Type	90x Luxeon K2 High-power- LEDs			
Lifetime	100.000 h			
RGB Model				
30 LEDs per color, wavele	ngth optimized for maximum presentable color space			
White Model				
60x cold white LEDs, 30x	Amber LEDs allow a continuously adjustable color temperature			
Optical System				
High efficient Collimator cl	uster			
Exchangeable optical carri	ier with 10° light distribution angle (25° optional)			
Scattering light aperture	Scattering light aperture			
Shutter / Dimmer (8 Bit)				
Strobe- Effect with variable Effects	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-			
Continuous Dimmer 0 - 10	0%			
DMX Control				
	Standard USITT DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. 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 300° in min. 1,5 seconds (Position Feedback)				
Weights and Measures	Weights and Measures			
Width of the base	Width of the base 340 mm			
Length of the base 145 mm				
height (head vertical) 370 mm				
Weight (net)	7,5 kg			





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