impression
Meisterstück

Instruction Manual

from Software Version 1.20
(Manual Version 1.01)

GLP
GERMAN LIGHT
PRODUCTS
—— since 1994 ——
e-mail: service@glp.de
Internet: http://www.glp.de

For your notes:

Table of content

1 Description of Device

1. Moving head (actively and passively cooled)

2. Arm with various cooling vents

3. Tilt-lock to secure and lock the tilt movement → see also 1.1Safety Instructions

4. LCD-Display/Menu (data entry)

5. Base with various connectors and Camlock mounting system

   → **Safety eyelets**

base side 1

base side 2
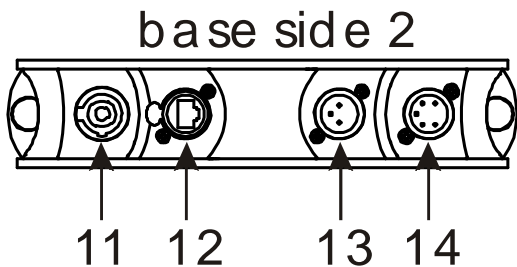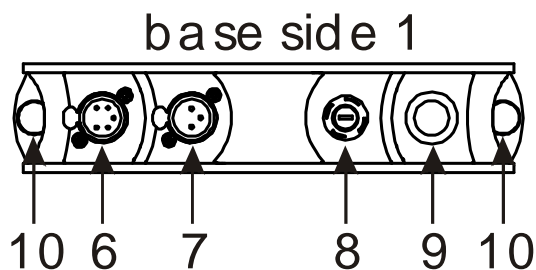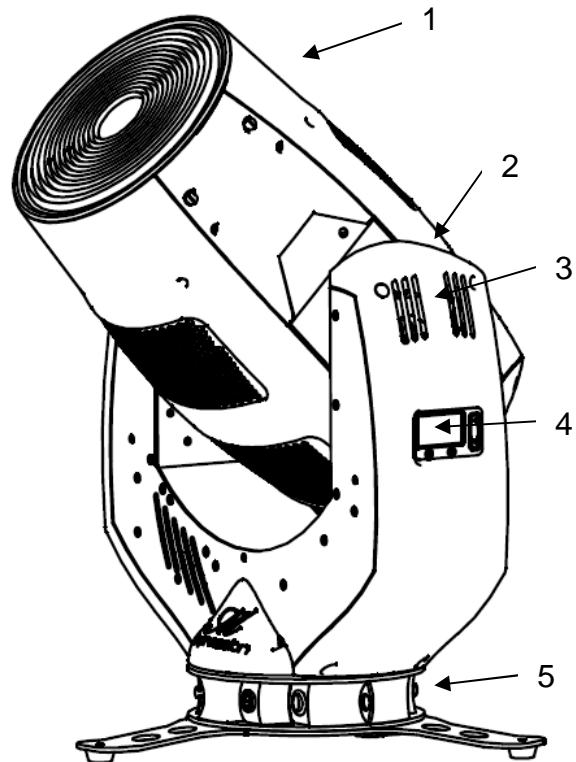
6. DMX- Output (5 Pin)

7. DMX- Output (3 Pin)

8. Micro-fuse 6.3x32mm, T15A

9. Power On/Off

10. 2x Safety eyelets

11. Powercon (Mains supply)

12. Blank panel

13. DMX- Input (3 Pin)

14. DMX- Input (5 in)

Note: Only connect one cable to the DMX-Out/Input at a time!

1.1   Safety Instructions

> ⚠️ The **IMPRESSION Meisterstück** 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. **Attention!** 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 manufacturer's warranty.

6. Only connect one cable to the DMX-Out/Input at a time!

7. **Attention!** The Tilt-Lock shall only be used to secure the head of the unit during transport – or during repair of the fixture. **Never** lift or carry the fixture by holding its head when the Tilt-Lock is in position. Otherwise the Tilt-Lock may become dysfunctional.

8. 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.

9. **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. **LED Class 2M.** 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 of your eyes!**

10. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **IMPRESSION Meisterstück** without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident.

11. 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.

12. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.

13. Please keep this instruction manual for later reference.

2   Preparation and Installation

2.1   Mounting

The **IMPRESSION Meisterstück** 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 from any easily inflammable materials (decoration etc.).
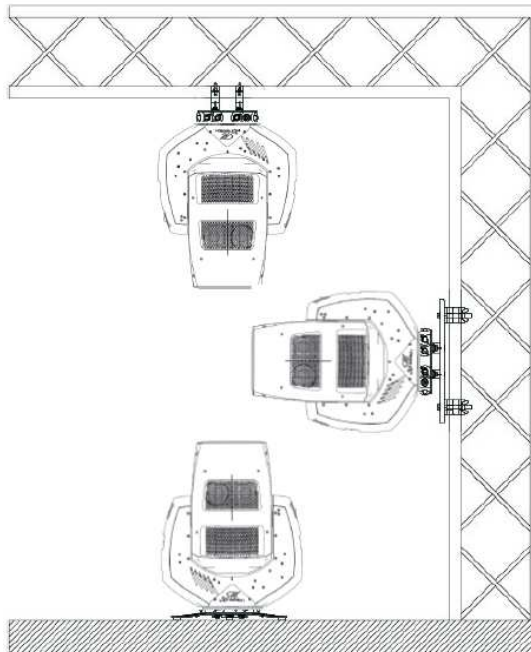
> ⚠ **Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.**
> **The installation shall be done by qualified personal only.**

For the various mounting positions of the **IMPRESSION Meisterstück** (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.

2.1.1 Mounting on the floor (upright)

To operate the **IMPRESSION Meisterstück** 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.
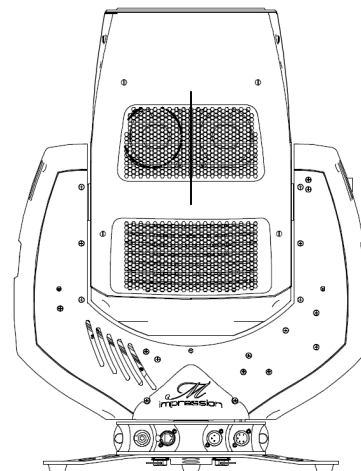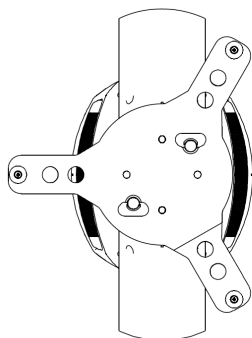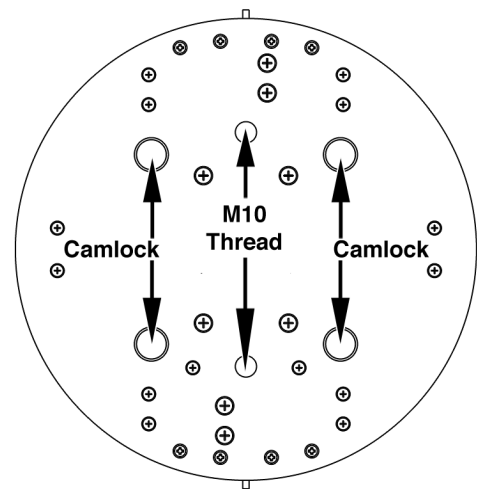
2.1.2 Mounting in hanging position (head first)

To operate the **IMPRESSION Meisterstück** in a hanging position, two omega brackets can be mounted directly to the bottom of the base using the four Camlock connectors.
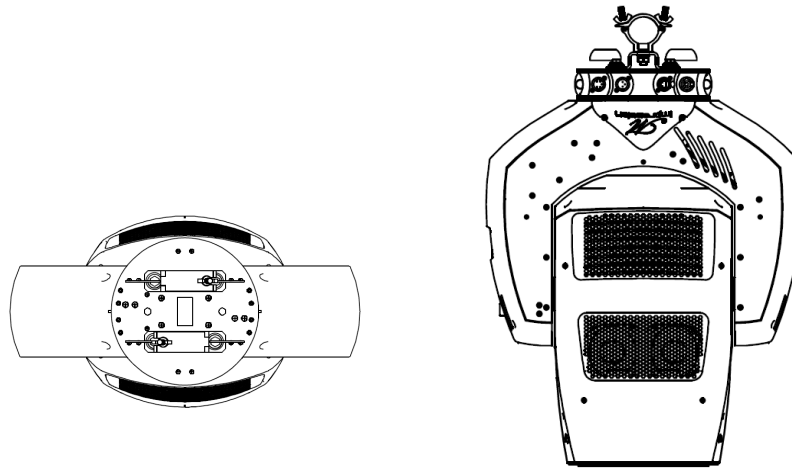
2.1.3 Mounting in sidewy position

To operate the **IMPRESSION Meisterstück** 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 four 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.
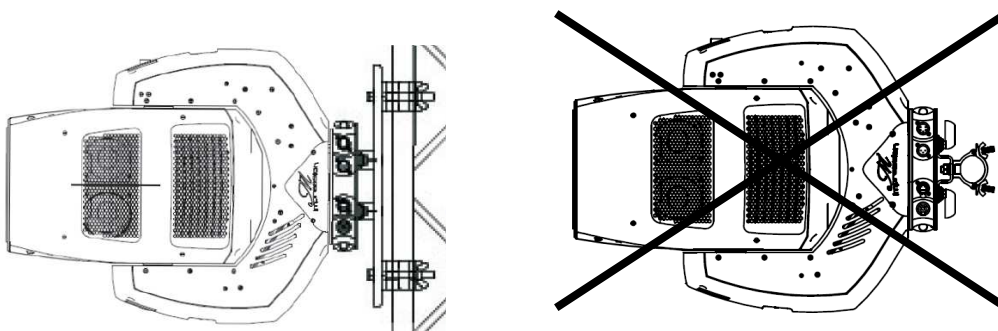
2.2 Securing the Device

Regardless of the mounting method of the **IMPRESSION Meisterstück** 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 plugvia Powercon

Connected load 650 VA (W) <=> T15A (micro-fuse 6.3x32mm)

Please see printing on the case for the correct mains 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 and 5 pole connectors.

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

5 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4/5 n.c.

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

Ethernet (compatible to Artnet II, ACN primed)

Neutrik RJ-45 plug (for Neutrik EtherCon connector with body)

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 Meisterstück .** With the **Mode-**key you set into the main menu. Afterwards you can navigate through the menu with the **scroll-wheel**. 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 **scroll-wheel**. 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

Scroll wheel - Up & Down

← MODE - ENTER →

← DOWN - UP →
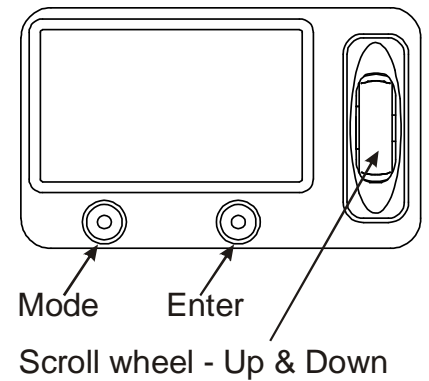
Level1	Level 2	Level 3	Level 4	Remark
DMX Start Address 001				Define the DMX start address
Special	Manual DMX			Manual control of all system functions
		Pan		Manual control for Pan (X-movement)
		Speed Movements		Speed adjustment for Pan/Tilt movements → see also item below
		Pan/Tilt Movements		Manual control for Pan/Tilt movement
		Special		Activate the White- or Full-Power Mode; see also DMX table
		Zoom		Manual control for Zoom
		White Temperature		Adjustment of the white 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)
	Display Contrast			Adjustment for the Display contrast
	Default Set			Resetting all functions to original values
	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
Adjust current sink		Internal data and function diagnose
	Red adjust offset	Adjust Offset red
	PWM on/off	PWM ON/OFF
	White adjust offset	Adjust Offset white
	Blue adjust offset	Adjust Offset blue
	Green adjust offset	Adjust Offset green
LED max. adjust		Internal data and function diagnose
	Max. adjust red 1	Internal data and function diagnose
	Max. adjust blue	Internal data and function diagnose
	Max. adjust green	Internal data and function diagnose
	Max. adjust red	Internal data and function diagnose
	Max. adjust white 4	Internal data and function diagnose
	Max. adjust white 3	Internal data and function diagnose
	Max. adjust white 2	Internal data and function diagnose
	Max. adjust white 1	Internal data and function diagnose
	Max. adjust Blue 4	Internal data and function diagnose
	Max. adjust Blue 3	Internal data and function diagnose
	Max. adjust Blue 2	Internal data and function diagnose
	Max. adjust Blue 1	Internal data and function diagnose
	Max. adjust green 4	Internal data and function diagnose
	Max. adjust green 3	Internal data and function diagnose
	Max. adjust green 2	Internal data and function diagnose
	Max. adjust green 1	Internal data and function diagnose
	Max. adjust red 4	Internal data and function diagnose
	Max. adjust red 3	Internal data and function diagnose
	Max. adjust red 2	Internal data and function diagnose
LED min. adjust		Internal data and function diagnose
	Min. adjust red 1	Internal data and function diagnose
	Min. adjust white 4	Internal data and function diagnose

	Min. adjust white 3		Internal data and function diagnose
	Min. adjust white 2		Internal data and function diagnose
	Min. adjust white 1		Internal data and function diagnose
	Min. adjust blue 4		Internal data and function diagnose
	Min. adjust blue 3		Internal data and function diagnose
	Min. adjust blue 2		Internal data and function diagnose
	Min. adjust blue 1		Internal data and function diagnose
	Min. adjust green 4		Internal data and function diagnose
	Min. adjust green 3		Internal data and function diagnose
	Min. adjust green 2		Internal data and function diagnose
	Min. adjust green 1		Internal data and function diagnose
	Min. adjust red 4		Internal data and function diagnose
	Min. adjust red 3		Internal data and function diagnose
	Min. adjust red 2		Internal data and function diagnose
Diagnose			Diagnose functions
		LED Leistung	Internal data and function diagnose
		HB Vers.	Shows Main Software Version
		Head Vers.	Shows Head Software Version
		Tilt Vers.	Shows Tilt Software Version
		Pan Vers.	Shows Pan Software Version
		LED Korrektur	ON/OFF LED correction
		Anzahl Ti0-Int-Err	Internal data and function diagnose
		Dim.Wert für weiss1	Shows value for dimmer white
		Dim.Wert für blau1	Shows value for dimmer blue
		Dim.Wert für gruen 1	Shows value for dimmer green
		Dim.Wert für rot 1	Shows value for dimmer red
		Arm Lüfter	Shows arm fan value
		Kopf Lüfter	Shows head fan
Temperature Arm			Indicates the present arm temperature
Temperature Head			Indicates the present head temperature

← DOWN - UP →

← DOWN - UP →

DMX Hold			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption
Position Feedback			Automatically position feedback (correction) for Pan/Tilt 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
	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
	Zoom		Instantaneous value for Zoom
	White Temperature		Adjustment of the color temperature for WHITE
	Dimmer		Instantaneous value for Dimmer
	Shutter		Instantaneous value for Shutter
	White		Instantaneous value for white
	Blue		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 movement
Self Test			Self Test mode
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		Only 12 DMX channels are being used if this Mode is activated
	Normal		16 DMX channels are being used if this Mode is activated
	High-Resolution		16 DMX channels are being used if this Mode is activated. Dimmer operates at 16 bit.
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 Sheet

Normal-Mode 16 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6°(16 Bit)		0..255	00. .FF	0..100
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos … High- Pos + 1,2°(16 Bit)		0..255	00..F F	0..100
5) Color (fixed)	Colors adjustable via RGB		0..3	00..03	1
	Color 01 - Red [1]		4..7	04..0B	2
	Color 02 - Amber [1]		8..11	0C..0F	4
	Color 03 - Warm Yellow [1]		12..15	10..13	5
	Color 04 - Yellow [1]		16..19	14..17	7
	Color 05 - Green [1]		20..23	18..1B	8
	Color 06 - Turquoise [1]		24..27	1C..1F	10
	Color 07 - Cyan [1]		28..31	20..23	11
	Color 08 - Blue [1]		32..35	24..27	13
	Color 09 - Lavender [1]		36..39	28..2B	15
	Color 10 - Mauve [1]		40..43	2C..2F	16
	Color 11 - Magenta [1]		44..47	30..33	18
	Color 12 - Pink [1]		48..51	34..37	19
	White - CTO	Color temperature 3200K	52..55	38..3B	21
	White	Color temperature 5600K	56..59	3C..3F	22
	White - CTB	Color temperature 7200K	60..63	40..43	24
	Colored Quartet 1		64..67	44..47	26
	Colored Quartet 2		68..71	4C..4F	27
	Colored Quartet 3		72..75	48..4B	29
	Colored Quartet 4		76..79	4C..4F	30
	Colored Quartet 5		80..83	50..53	32
	Colored Quartet 6		84..87	54..57	33
	Colored Quartet 7		88..91	58..5B	35
	Colored Quartet 8		92..95	5C..5F	37
	Colored Quartet 9		96..99	60..63	38
	Colored Quartet 10		100..103	64..67	40
	Colored Quartet 11		104..107	68..6B	41
	Colored Quartet 12		108..111	6C..6F	43
	Colored Quartet 13		112..115	70..73	44
	Colored Quartet 14		116..119	74..77	46
	Colored Quartet 15		120..123	78..7B	47
	Colored Quartet 16		124..127	7C..7F	49
	Rainbow Effect Stop [2]		128	80	50
	Rainbow Effect [3]	slow - fast	129..223	81..DF	51..88

Channel	Function	Time and Value	DMX	HEX	%
	Rainbow Effect, random colors	slow - fast	224..255	E=..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
	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
	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 to 1s	144..199	90..C7	57..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) Color temperature	No color temperature correction		0..6	0..06	0..2
	Continuous color temperature correction between 3200k - 7200k	Applicable for every color	7..255	07..FF	3..100
13) Zoom	Zoom	0% - 100%	0..255	0..FF	0..100
14) Special	Spezial		0 ..31	0..1F	0..12
	Colored Quartet 1 blinking	slow - fast	32..47	20..2F	13..18
	Colored Quartet 2 blinking	slow - fast	48..63	30..3F	19..24
	Colored Quartet 3 blinking	slow - fast	64..79	40..4F	25..30
	Colored Quartet 4 blinking	slow - fast	80..95	50..5F	31..37
	Colored Quartet 5 blinking	slow - fast	96..111	60..6F	38..43
	Colored Quartet 6 blinking	slow - fast	112..127	70..7F	44..49
	Colored Quartet 7 rotate	slow - fast	128..143	80..8F	50..56
	Colored Quartet 8 rotate	slow - fast	144..159	90..9F	57..62
	Colored Quartet 9 rotate	slow - fast	160..175	A0..AF	63..68
	Colored Quartet 10 rotate	slow - fast	176..191	B0..BF	69..74
	Colored Quartet 11 rotate	slow - fast	192..207	C0..CF	75..81
	Colored Quartet 12 rotate	slow - fast	208..223	D0..DF	82..87
	Fan min. as long as temp. < 90℃		224..229	E0..E5	88..89,5
	RESET (Normal Mode)		**250..255**	**FA..FF**	**98..100**
15) Move-ment	**No movement**		0	00	0

Movement	Size	Phase		DMX	HEX	%
PAN	1	0°		01..01	01..01	0,5
	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	08..09	3,3
	2	90°		10..11	0A..0B	4,1
	2	180°		12..13	0C..0D	4,9
	2	270°		14..15	0E..0F	5,7
PAN	3	0°		16..17	11..11	6,5
	3	90°		18..19	12..13	7,3
	3	180°		20..21	14..15	8,0
	3	270°		22..23	16..17	8,8
PAN	4	0°		24..25	18..19	9,6
	4	90°		26..27	1A..1B	10,4
	4	180°		28..29	1C..1D	11,2
	4	270°		30..31	1E..1F	12

Channel	Function		Time and Value	DMX	HEX	%
	TILT	size / phase see also PAN		32..63	20..3F	13..25
	PAN / TILT	size / phase see also PAN		64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see also PAN		96..127	60..7F	38..50
	Circle	size / phase see also PAN		128..159	80..9F	51..62
	Circle (inverse)	size / phase see also PAN		160..191	A0..BF	63..75
	Lying eight	size / phase see also PAN		192..223	C0..DF	76..87
	Random movement	size see also PAN		224..255	E0..FF	88..100
16) Speed Pan/Tilt	Pan/Tilt relative movement			0..1	00..01	0..0,5
	Pan/Tilt slow – fast Use this channel 14) also for the speed of the movements (channel 13).		Pan Min. 660°= 200s Pan Max. 660° Tilt Min. 300°= 110s Tilt Max. 300°	2..255	02..FF	1..100

4) Max. Power-Mode vs. White-Mode

The **IMPRESSION Meisterstück** 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) The continuous color temperature correction is applicable for every color

Compress-Mode 12 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6°(16 Bit)		0..255	00. .FF	0..100
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos … High- Pos + 1,2°(16 Bit)		0..255	00..F F	0..100
5) Color (fixed)	Colors adjustable via RGB		0..3	00..03	1
	Color 01 - Red [1]		4..7	04..0B	2
	Color 02 - Amber [1]		8..11	0C..0F	4
	Color 03 - Warm Yellow [1]		12..15	10..13	5
	Color 04 - Yellow [1]		16..19	14..17	7
	Color 05 - Green [1]		20..23	18..1B	8
	Color 06 - Turquoise [1]		24..27	1C..1F	10
	Color 07 - Cyan [1]		28..31	20..23	11
	Color 08 - Blue [1]		32..35	24..27	13
	Color 09 - Lavender [1]		36..39	28..2B	15
	Color 10 - Mauve [1]		40..43	2C..2F	16
	Color 11 - Magenta [1]		44..47	30..33	18
	Color 12 - Pink [1]		48..51	34..37	19

Channel	Function	Time and Value	DMX	HEX	%
	White - CTO	Color temperature 3200K	52..55	38..3B	21
	White	Color temperature 5600K	56..59	3C..3F	22
	White - CTB	Color temperature 7200K	60..63	40..43	24
	Colored Quartet 1		64..67	44..47	26
	Colored Quartet 2		68..71	4C..4F	27
	Colored Quartet 3		72..75	48..4B	29
	Colored Quartet 4		76..79	4C..4F	30
	Colored Quartet 5		80..83	50..53	32
	Colored Quartet 6		84..87	54..57	33
	Colored Quartet 7		88..91	58..5B	35
	Colored Quartet 8		92..95	5C..5F	37
	Colored Quartet 9		96..99	60..63	38
	Colored Quartet 10		100..103	64..67	40
	Colored Quartet 11		104..107	68..6B	41
	Colored Quartet 12		108..111	6C..6F	43
	Colored Quartet 13		112..115	70..73	44
	Colored Quartet 14		116..119	74..77	46
	Colored Quartet 15		120..123	78..7B	47
	Colored Quartet 16		124..127	7C..7F	49
	Rainbow Effect Stop [2]		128	80	50
	Rainbow Effect [3]	slow - fast	129..223	81..DF	51..88
	Rainbow Effect, random colors	slow - fast	224.255	E=..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
	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 to 1s	144..199	90..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
	RESET	**Min. 3 Sec.**	**250**	**FA**	**98**
	Shutter open		251..255	FB..FF	99..100
11) Dimmer	Dimmer (0% - 100%)	0% - 100%	0..255	0..FF	0..100
12) Zoom	Zoom	0% - 100%	0..255	0..FF	0..100

High Resolution (Extended) -Mode 16 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6°(16 Bit)		0..255	00. .FF	0..100
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos … High- Pos + 1,2°(16 Bit)		0..255	00..F F	0..100
5) Red-coarse	Color mixing system – Red	0 - 100%	0..255	00..FF	0..100
6) Red-fine	Color mixing system – Red-Low		0..255	00..FF	0..100
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				
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 to 1s	144..199	90..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
	RESET	**Min. 3 Sec.**	**250**	**FA**	**98**
	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	Zoom	0% - 100%	0..255	0..FF	0..100

Super Extended Mode 23 DMX Kanäle

Kanal	Funktion	Zeiten und Werte	DMX	HEX	%
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100
2) PAN-fine	High- Pos ... High- Pos + 2,6°(16 Bit)		0..255	00. .FF	0..100
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100
4) Tilt-fine	High- Pos … High- Pos + 1,2°(16 Bit)		0..255	00..F F	0..100
5) Red 1	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
6) Green 1	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
7) Blue 1	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
8)White 1	Color mixing system - White	0 - 100%	0..255	00..FF	0..100
9) Red 2	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
10) Green 2	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
11) Blue 2	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
12)White 2	Color mixing system - White	0 - 100%	0..255	00..FF	0..100
13) Red 3	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
14) Green 3	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
15) Blue 3	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
16)White 3	Color mixing system - White	0 - 100%	0..255	00..FF	0..100
17) Red 4	Color mixing system - Red	0 - 100%	0..255	00..FF	0..100
18) Green 4	Color mixing system - Green	0 - 100%	0..255	00..FF	0..100
19) Blue 4	Color mixing system - Blue	0 - 100%	0..255	00..FF	0..100
20)White 4	Color mixing system - White	0 - 100%	0..255	00..FF	0..100
21) 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 to 1s	144..199	90..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
	RESET	**Min. 3 Sec.**	**250**	**FA**	**98**
	Shutter open		251..255	FB..FF	99..100
22) Dimmer	Dimmer	(0% - 100%)	0..255	0..FF	0..100
23) Zoom	Zoom	0% - 100%	0..255	0..FF	0..100

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

[2] Rainbow-effect Stop will pause this function. After resuming the rainbow-effect will be continued with the current color.

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

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5 Maintaining and Cleaning the IMPRESSION Meisterstück

The **IMPRESSION Meisterstück** 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.

Position	Interval	In this way
Fresnel Lense	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	650 VA (Watt)
Power Input	~100-240 V AC, 50-60 Hz (auto sensing input)
Fuse protection	Micro-fuse 6.3x32 mm, T15A
Operational Parameters	
Max. Ambient Temperature	45°C (integrated overheating switch)
Mounting Position	Any (see chapter mounting)
Lighting System - Additive Color mixing	
LED Type	600W RGBW Chipset
Lifetime	10.000 h
Optical System	
Fresnel lens	
Zoom (8/16 Bit)	
Zoombereich 10° - 34°	
Shutter / Dimmer (8/16 Bit) electronic	
Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects	
Continuous Dimmer 0 - 100%	
DMX Control	
Standard USITT DMX-512, 3/5 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. DMX- Addressing starts at the DMX channel [001]. Ethernet (compatible to Artnet II, ACN primed)	
Pan / Tilt (8/16 Bit)	
Pan- movement	**540°(Position Feedback)**
Tilt- movement	**245°(Position Feedback)**
Weights and Measures	
Width of the base	**510 mm / 20 inch.**
Length of the base	**280 mm / 11 inch.**
Height (head vertical)	**650 mm / 25,6 inch.**
Fixture weight (net)	**32 kg / 70.lbs**
Floor Mount weight	**2 kg / 4.4 lbs.**

7 Index