

Instruction Manual



from software version 1.61 (Instruction version 1.97)



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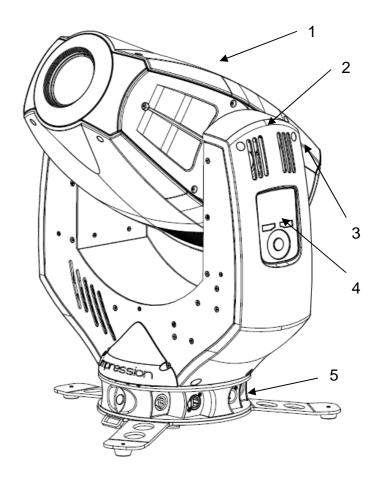
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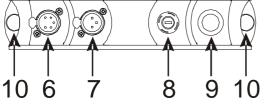


Description of Device

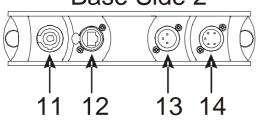
- 1. Moving Head
- 2. Arm with various cooling vents
- 3. Tilt-lock to secure and lock the tilt movement
- 4. Backlight LCD graphical menu (data entry)
- Base with various connectors and Camlock mounting system







Base Side 2



- 6. DMX- Output (5 Pin)
- 7. DMX- Output (3 Pin)
- 8. Micro-fuse 6.3x32mm, T8A
- 9. Power Switch
- 10.2x Safety wire points
- 11. Neutrik Powercon (Mains power input)
- 12. Blank panel (primed for Ethernet)
- 13. DMX-Input (3 Pin)
- 14. DMX- Input (5 Pin)

Note: Only connect one cable to the DMX Input / Output at the same time!



1.1 Safety Instructions



The **Impression Spot one** 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. Use only one DMX Input / Output at the same time.
- 6. 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!

- 7. To ensure proper operation, you must also follow the installation guide described in chapter 1 of this manual. Operating the **Impression Spot one** without suitable mounting devices can increase the risk of an accident.
- 8. The Impression Spot one 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.
- 9. Repair, maintenance and installation work should only be performed by qualified or GLP certified staff. You need to pay attention to the common



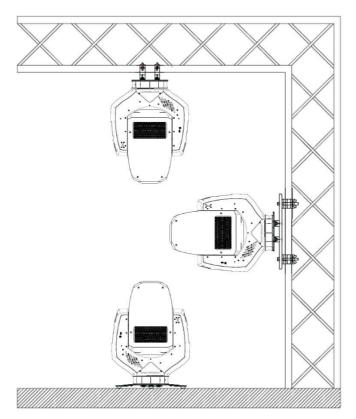
rules of technology that are not explicitly mentioned in this manual.

- 10. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.
- 11. Please keep this instruction manual for future reference.

1 Preparation and Installation

1.1 Mounting

The **Impression Spot one** 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.

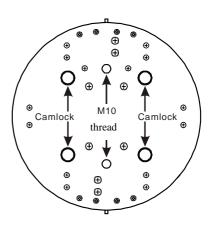
For the various mounting positions of the **Impression Spot one** (standing on the floor, sideways or hanging) different accessories kits are available. Using any required kits, along with the standard mounting connectors on the base of the fixture, will ensure a safe and firm installation.

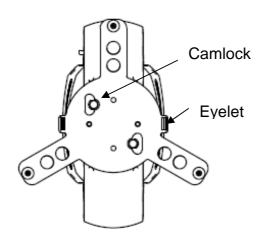


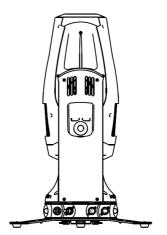
1.1.1 Mounting on the floor (upright)

To operate the **Impression Spot one** in an upright position, please use the dedicated floor-stand which is shipped 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 ratchet strap. This allows additional bracing of the floor-stand during upright operation.

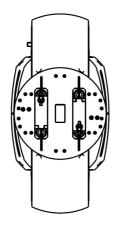


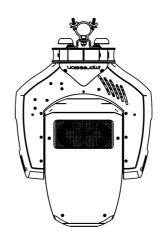




1.1.1 Mounting in hanging position (Head down)

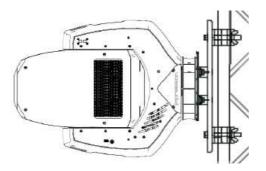
To operate the **Impression Spot one** in a hanging position, two omega brackets can be mounted directly to the bottom of the base using the four Camlock connectors.

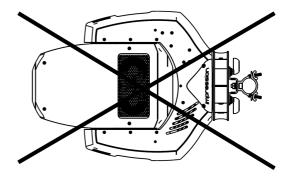




1.1.2 Mounting in sideways position

To operate the **Impression Spot one** 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 fixture. 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.





1.2 Securing the device

Regardless of the mounting method of the **Impression Spot one** 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.



1.3 Connections

1.3.1 Power Supply

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

Connected load 450 VA (W) <=> T8A (micro-fuse 6.3x32mm)

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

1.3.2 DMX

USITT DMX-512 Standard input/output via 3 pin and 5 pin connectors.

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

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

Ethernet (Artnet II compatible, ACN ready)

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

2 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 Spot One.** With the **Menu-**key you get into the main menu. Afterwards you can navigate through the menu with the **Touchwheel**. Push the **Enter-**key to get to the next menu level or to confirm your settings. Select **ON/ OFF** function settings with the **Touchwheel**. Confirm and save with the **Enter-**key. Push the **Back-**key to cancel the entry and go back to the main menu.





← Back - Enter →

		· Enter →		
Layer 1	Layer 2	Layer 3	Layer 4	Notes
DMX Start				
Address			1	Set the DMX start address
Personality	Pan/Tilt			Pan/Tilt settings
		Pan invert		Selects Inverse Pan, on or off
		Tilt invert		Selects Inverse Tilt, on or off
				Automatic position feedback selection for
		Feedback Dimmer		pan/tilt movement
	Color	Curve		Set the Dimmer Curve
	DMX	Address		Set the DMX start address
		Mode		Allows selection of the desired DMX Mode
			Compressed	Fixture works in "Compressed" mode → see also section 4
			Normal	Fixture works in "Normal" mode → see also section 4
			High- Resolution	Fixture works in "High Resolution" mode → see also section 4
		Hold Values		Defines whether the last DMX signal is stored, or the lamp is switched OFF in case of signal interruption
		Manual		Manual control of all system functions
			Pan	Manual control
			Tilt	Manual control
			Colorwheel	Manual control
			Red	Manual control
			Green	Manual control
			Blue	Manual control
			Shutter	Manual control
			Dimmer	Manual control
			Color temp.	Manual control
			Special	Manual control
			Movement	Manual control
			Movement Speed	Manual control
			Zoom	Manual control
			Focus	Manual control
			Gobo1	Manual control
			Gobo 1 rot.	Manual control
			Gobo 1 Tot.	Manual control
			Gobo 2 rot.	Manual control





			Effectwheel	Manual control
			Effectwheel rot.	Manual control
			Prism	Manual control
			Iris	Manual control
	Artnet			Artnet adjustment
		Priority		Set the priotity of Artnet and DMX input (Artnet, DMX or Merge)
		DMX/RDM		(Arthet, Divix of Merge)
		out		Set the output of Artnet oder DMX
		Universe		Set the Universe
		IP Mode		Set the Artnet Mode (10.x.x.x oder 2.x.x.x)
		Custom IP		Set the manual IP address
		Custom Subnet		Manual set of the Subnet address
		Custom		
		Gateway		Manual set of the Gateway address
	Display			Adjustments for the Display
		Blackout		Sets the display On or Off
		Auto-Rot		Display will rotate automatically
		Diamless Inst		Diaplay will retate manual
		Display Inv		Display will rotate manual
		Brightness	-	Display backlight
	Set Default			Resetting all functions to original values
Status	Version		Ī	Shows the current software version
	Reset Hardware			Hardware reset adjust
		All		Reset all boards
		Head		Reset only headboard
		GI		Reset only Gobo & Iris
		FZP		Reset only Focus, Zoom, Prism
		Pan		Reset only Pan
		Tilt		Reset only Tilt
	Temperatures			Display all temperatures
	LED Info			Display the values for the LED's
		Red		Current value for red
		Green		Current value for green
		Blue		Current value for blue
	Error Status			Shows the error status
	Timer			Shows the life time
				Shows the current DMX signal per DMX
	DMX Input			channel

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	Pan	Instantaneous value for pan
	Tilt	Instantaneous value for tilt
	Colorwheel	Instantaneous value for color
	Red	Instantaneous value for red
	Green	Instantaneous value for green
	Blue	Instantaneous value for blue
	Shutter	Instantaneous value for shutter
	Dimmer	Instantaneous value for dimmer
	Colortemp.	Instantaneous value for color temp.
	Special	Instantaneous value for special
	Movement	Instantaneous value for movement
	Movement Speed	Instantaneous value for movement speed
	Zoom	Instantaneous value for zoom
	Focus	Instantaneous value for focus
	Gobo1	Instantaneous value for gobo1
	Gobo 1 rot.	Instantaneous value for gobo 1 rot.
	Gobo 2	Instantaneous value for gobo 2
	Gobo 2 rot.	Instantaneous value for gobo 2 rot.
	Effectwheel	Instantaneous value for effect wheel
	Effectwheel rot.	Instantaneous value for effect wheel rot.
	Prisma	Instantaneous value for prism
	Iris	Instantaneous value for iris
DMX Quality		Shows the DMX Quality
Service Adjust		Adjustments for all functions. Use code to enter calibration. (only for authorized persons)
	Pan	Adjust for pan
	Tilt	Adjust for tilt
	Gobo1	Adjust for gobo 1
	Gobo 1 rot.	Adjust for gobo 1 rotation
	Gobo 2	Adjust for gobo 2
	Gobo 2 rot.	Adjust for gobo 2 rotation
	Effectwheel	Adjust for effect wheel
	Effectwheel rot.	Adjust for effect wheel rotation
	Prisma	Adjust for prism
	Prisma End	
	Pos.	Adjust for prism end position
	Pos. Prisma Index	Adjust for prism end position Adjust for prism index

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	Zoom
	Focus
	Adjust
	Default set
	Factory
	Adjust
Testmode	
Error Log	

Adjust for zoom
Adjust for focus
Set all adjustments to default
Factory internal adjustments
Test mode
Shows all errors in lifetime

DMX Channels

Normal-Mode 24 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°		0255	00FF	0100
2) PAN-fine	High- Pos High- Pos +		0255	00FF	0100
	2,6°(16 Bit)				
3) Tilt- coarse	0 280°		0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos +		0255	00FF	0100
	1,2°(16 Bit)				
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red		815	080F	35,5
	Color 02 - Amber		1623	1017	68,5
	Color 03 – Yellow warm		2431	181F	912,5
	Color 04 - Yellow		3239	2027	1315,5
	Color 05 – Green		4047	282F	1618,5
	Color 06 – Turquoise		4855	3037	1921,5
	Color 07 – Cyan		5663	383F	2224,5
	Color 08 - Blue		6471	4047	2527,5
	Color 09 - Lavender		7279	484F	2830,5
	Color 10 - Malve		8087	5057	3134,5
	Color 11 – Magenta		8895	585F	3537,5
	Color 12 - Pink		96103	6067	3840,5
	White - CTO	Color temp. 3200K	104111	686F	4143,5
	White	Color temp. 5600K	112119	7077	4446,5
	White – CTB	Color temp. 7200K	120127	787F	4749,5
	Rainbow Effect Stop	Stop	128	80	50
	Rainbow Effect	slow – fast Color 01 -> Color 12	129255	81FF	51100
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
	Shutter pulse random	slow - fast	1647	102F	618,5
	Shutter ramp up	slow - fast	4879	304F	1931
	Shutter ramp down	slow - fast	80111	506F	3243
	Shutter ramp up/down	slow - fast	112143	708F	4456
	Random strobe	slow – fast	144159	909F	5762

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	Strobe effect pause	5s0,1s	160199	A0C7	6377
	Strobe effect slow - fast	1 Hz 25 Hz	200241	C8F1	7895
	Shutter open	-	242255	F2FF	96100
10) Dimmer	Dimmer	0% - 100%	0255	0FF	0100
11) Color temp.	No color temperature correction		07	007	02,5
	Continuous color temperature correction between 7200k - 3200k	Applicable for ALL colors 5)	8255	08FF	3100
12) Gobo Shake & Special	Gobo Shake for Gobowheel 1+2 off		0 15	000F	05,5
	Gobo Shake Gobowheel 1	Speed 1 Size 18 Speed 2 Size 18	1623 2431	1017 181F	69 9,512
		Speed 3 Size 18	3239	2027	12,515
		Speed 4 Size 18	4047	282F	15,518
		Speed 5 Size 18	4855	3037	18,521,5
		Speed 6 Size 18	5663	383F	2224,5
		Speed 7 Size 18	6471	4047	2527,5
		Speed 8 Size 18	7279	484F	2830,5
	Gobo Shake Gobowheel 2	Speed / Size see Gobo Shake	80143	5090	3156
	Gobo Shake Gobowheel 1+2	Gobowheel 1 Speed / Size see Gobo Shake Gobowheel 2	144207	91CF	56,581
	Reset 1	Only Head	250253	FAFC	9899
	Reset 2	All Funktions	254255	FDFF	100
13) Movement	No movement	7 III T GIIICIONO	0	0	0
10) MOVEMENT	Movement	Size	Phase		
	PAN	1		<u> </u>	
			10°		0101
	1 AIN	-	0°		0101
	I AIV	1	90°		0203
	T 731V	1	90° 180°		0203 0405
		1 1 1	90° 180° 270°		0203 0405 0607
	PAN	1 1 1 2	90° 180° 270° 0°		0203 0405 0607 0809
		1 1 1 2 2	90° 180° 270° 0° 90°		0203 0405 0607 0809 1011
		1 1 1 2 2 2	90° 180° 270° 0° 90° 180°		0203 0405 0607 0809 1011 1213
	PAN	1 1 1 2 2 2 2	90° 180° 270° 0° 90°		0203 0405 0607 0809 1011 1213 1415
		1 1 1 2 2 2 2 2 3	90° 180° 270° 0° 90° 180° 270°		0203 0405 0607 0809 1011 1213 1415 1617
	PAN	1 1 1 2 2 2 2 2 2 3 3	90° 180° 270° 0° 90° 180° 270°		0203 0405 0607 0809 1011 1213 1415 1617 1819
	PAN	1 1 1 2 2 2 2 2 2 3 3 3	90° 180° 270° 0° 90° 180° 270° 0°		0203 0405 0607 0809 1011 1213 1415 1617 1819 2021
	PAN	1 1 1 2 2 2 2 2 2 3 3	90° 180° 270° 0° 90° 180° 270° 0° 90° 180°		0203 0405 0607 0809 1011 1213 1415 1617 1819
	PAN	1 1 1 2 2 2 2 2 2 3 3 3 3	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270°		0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223
	PAN	1 1 1 2 2 2 2 2 3 3 3 3 3	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180°		0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627
	PAN	1 1 1 2 2 2 2 2 3 3 3 3 3 4	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0°		0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425
	PAN	1 1 1 2 2 2 2 2 2 3 3 3 3 3 4 4	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90°	203F	0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829
	PAN PAN TILT PAN / TILT	1 1 1 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4 4 size / phase see also	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180°	203F 405F	0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829 3031
	PAN PAN TILT	1	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 3263 6495		0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829 3031 1325 2637
	PAN PAN TILT PAN / TILT	1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4 size / phase see also PAN size / phase see also PAN size / phase see also	90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 270° 0° 90° 180° 4.95	405F	0203 0405 0607 0809 1011 1213 1415 1617 1819 2021 2223 2425 2627 2829 3031 1325

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Pan/Tilt	0100 05,9
Pan/Tilt Ou01	00,5 1100 0100 0100
Pan/Tilt Pan/Tilt Slow - fast Use this channel 14) also for the speed of the movements (channel 13).	0100 0100
16) Focus Stepless adjustable Focus infinity – near 0 255 0 FF 17) Gobo1 (indexed) Gobo 1 (open,) 0 15 00 0F Gobo 2 16 31 10 1F 6 Gobo 3 32 47 20 2F 1 Gobo 4 48 63 30 3F 1 Gobo 5 64 79 40 4F 2 Gobo 6 80 95 50 5F 3 Gobo 8 112 126 70 82 4 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128 192 80 C0 8	0100
16) Focus Stepless adjustable Focus infinity – near 0 255 0 FF 17) Gobo1 (indexed) Gobo 1 (open,) 0 15 00 0F Gobo 2 16 31 10 1F 6 Gobo 3 32 47 20 2F 1 Gobo 4 48 63 30 3F 1 Gobo 5 64 79 40 4F 2 Gobo 6 80 95 50 5F 3 Gobo 8 112 126 70 82 4 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128 192 80 C0 8	0100
Gobo 2	05,9
Gobo 3 3247 20 2F 1 Gobo 4 4863 30 3F 1 Gobo 5 6479 404F 2 Gobo 6 8095 505F 3 Gobo 96111 606F 3 Gobo 8 112126 7082 3 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128192 80C0 8	511,9
Gobo 4 4863 30 3F 19 Gobo 5 6479 404F 2 Gobo 6 8095 505F 3 Gobo 96111 606F 3 Gobo 8 112126 7082 4 Gobo rotation STOP 127 7F 7F Gobo rotation, slow-fast, CW 128192 80C0 8	
Gobo 5 6479 404F 2 Gobo 6 8095 505F 3 Gobo 96111 606F 3 Gobo 8 112126 7082 4 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128192 80C0 8	217,9
Gobo 6 8095 505F 3 Gobo 96111 606F 3 Gobo 8 112126 7082 4 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128192 80C0 8	9 24,5
Gobo 96111 606F 3 Gobo 8 112126 7082 3 Gobo rotation STOP 127 7F 4 Gobo rotation, slow-fast, CW 128192 80C0 8	2530,5
Gobo 8 112126 7082 Gobo rotation STOP 127 7F Gobo rotation, slow-fast, CW 128192 80C0	3137,5
Gobo rotation STOP 127 7F Gobo rotation, slow-fast, CW 128192 80C0	3843,5
Gobo rotation, slow-fast, 128192 80C0	4448
CW	49
	5076
CCW	77100
18) Gobo 1 Gobo position 0 540° 0127 007F	049
Posi./Rot Gobo rotation STOP 128129 8081	50
Gobo rotation, slow-fast, 130192 82C0	5175
CCW	7699
Gobo rotation STOP 254255 FDFF 9	99100
19)Gobo2 Gobo 1 (open) 015 000F (indexed)	05,9
Gobo 2 1631 101F 6	511,9
	217,9
	9 24,5
	2530,5
	3137,5
	3843,5
	4448
	49
	5076
	77100
	049
Posi./Rot Gobo rotation STOP 128129 8081	50
	5175
Gobo rotation STOP 254255 FDFF 9	7699

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21) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0255	00FF	0100
	Rotating stop		01	0001	001
22) Effect wheel	Rotating slow - fast CW		1128	0180	150
Posi./Rot	Rotating fast - slow CCW		129254	81FD	5199
	Rotating stop		254255	FDFF	99100
23) Prism	Prism swing out		05	0005	02
	Prism position 0 540°		6127	067F	050
	Prism rotation stop		128129	8081	50,1
	Prism rotation, slow-fast, CW		130192	82C0	5175
	Prism rotation, fast-slow, CCW		193253	C1FD	7699
	Prism rotation stop		254255	FDFF	99.100
24) Iris	Iris open – closed		0131	0083	0052

Compress-Mode 20 DMX Channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°		0255	00FF	0100
2) PAN-fine	High- Pos High- Pos +(16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 280°		0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + (16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red		815	080F	35,5
	Color 02 - Amber		1623	1017	68,5
	Color 03 – Yellow warm		2431	181F	912,5
	Color 04 - Yellow		3239	2027	1315,5
	Color 05 – Green		4047	282F	1618,5
	Color 06 – Turquoise		4855	3037	1921,5
	Color 07 – Cyan		5663	383F	2224,5
	Color 08 - Blue		6471	4047	2527,5
	Color 09 - Lavender		7279	484F	2830,5
	Color 10 - Malve		8087	5057	3134,5
	Color 11 – Magenta		8895	585F	3537,5
	Color 12 - Pink		96103	6067	3840,5
	White - CTO	Color temp. 3200K	104111	686F	4143,5
	White	Color temp. 5600K	112119	7077	4446,5
	White – CTB	Color temp. 7200K	120127	787F	4749,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow – fast Color 01 -> Color 12	129255	81FF	51100
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
	Shutter pulse random	slow - fast	1647	102F	618,5
	Shutter ramp up	slow - fast	4879	304F	1931

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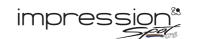




	Chuttar rama daum	alow foot	00 111	FO CE	22 42
	Shutter ramp down	slow – fast	80111	506F	3243
	Shutter ramp up/down	slow – fast	112143	708F	4456
	Random strobe	slow – fast	144159	909F	5762
	Strobe effect pause	5s0,1s	160199	A0C7	6377
	Strobe effect slow - fast	1 Hz 25 Hz	200241	C8F1	7895
	Shutter open		242249	F2F9	95,596,5
	RESET 1	Only Head	250	FA	97
	RESET 2	All Funktions	251	FB	98
	Shutter open		252255	FCFF	99100
10) Dimmer	Dimmer	0% - 100%	0255	0FF	0100
11) Zoom	Stepless adjustable Zoom	10°- 32°	0 255	0F F	0100
12) Focus	Stepless adjustable Focus	infinity - near	0 255	0FF	0100
13)Gobo1 (indexed)	Gobo 1 (open)		015	000F	05,9
,	Gobo 2		1631	101F	611,9
	Gobo 3		3247	20 2F	1217,9
	Gobo 4		4863	30 3F	19 24,5
	Gobo 5		6479	404F	2530,5
	Gobo 6		8095	505F	3137,5
	Gobo		96111	606F	3843,5
	Gobo 8		112126	7082	4448
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast,		128192	80C0	5076
	CW				
	Gobo rotation, fast-slow, CCW		193255	C1FF	77100
14) Gobo 1	Gobo position 0 540°		0127	007F	049
Posi./Rot	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW		130192	82C0	5175
	Gobo rotation, fast-slow, CCW		193253	C1FD	7699
	Gobo rotation STOP		254255	FDFF	99100
15)Gobo2	Gobo 1 (open, fast)		015	000F	05,9
(indexed)					·
	Gobo 2		1631	101F	611,9
	Gobo 3		3247	20 2F	1217,9
	Gobo 4		4863	30 3F	19 24,5
	Gobo 5		6479	404F	2530,5
	Gobo 6		8095	505F	3137,5
	Gobo 7		96111	606F	3843,5
	Gobo 8		112126	7082	4448
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128192	80C0	5076
	Gobo rotation, fast-slow, CCW		193255	C1FF	77100
16) Gobo 2	Gobo position 0 540°		0127	007F	049
Posi./Rot	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW		130192	82C0	5175
	Gobo rotation, fast-slow, CCW		193253	C1FD	7699
	Gobo rotation STOP		254255	FDFF	99100

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17) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0255	00FF	0100
	Rotating stop		01	0001	001
18) Effect wheel	Rotating slow - fast CW		1128	0180	150
Posi./Rot	Rotating fast - slow CCW		129254	81FD	5199
	Rotating stop		254255	FDFF	99100
19) Prism	Prism swing out		05	0005	02
	Prism position 0 540°		6127	067F	050
	Prism rotation stop		128129	8081	50,1
	Prism rotation, slow-fast, CW		130192	82C0	5175
	Prism rotation, fast-slow, CCW		193253	C1FD	7699
	Prism rotation stop		254255	FDFF	99.100
20) Iris	Iris open – closed		0131	0083	0052

High Resolution (Extended)-Mode 31 DMX Channels

Kanal	Funktion	Zeiten und Werte	DMX	HEX	%
1) PAN- coarse	0 660°		0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + (16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 280°		0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + (16 Bit)		0255	00FF	0100
5) Color	Colors adjustable via RGB		07	0007	02,5
(fixed)	Color 01 - Red		815	080F	35,5
	Color 02 - Amber		1623	1017	68,5
	Color 03 – Yellow warm		2431	181F	912,5
	Color 04 - Yellow		3239	2027	1315,5
	Color 05 – Green		4047	282F	1618,5
	Color 06 – Turquoise		4855	3037	1921,5
	Color 07 – Cyan		5663	383F	2224,5
	Color 08 - Blue		6471	4047	2527,5
	Color 09 - Lavender		7279	484F	2830,5
	Color 10 - Malve		8087	5057	3134,5
	Color 11 – Magenta		8895	585F	3537,5
	Color 12 - Pink		96103	6067	3840,5
	White - CTO	Color temp. 3200K	104111	686F	4143,5
	White	Color temp. 5600K	112119	7077	4446,5
	White – CTB	Color temp. 7200K	120127	787F	4749,5
	Rainbow Effect Stop		128	80	50
	Rainbow Effect	slow – fast Color 01 ->Color 12	129255	81FF	51100
6) Red- coarse	Color mixing system – Red	0 - 100%	0255	00FF	0100
7) Red-fine	Color mixing system – Red- low		0255	00FF	0100
8) Green- coarse	Color mixing system - Green	0 - 100%	0255	00FF	0100
9) Green- fine	Color mixing system – Green-low		0255	00FF	0100

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10) Blue- coarse	Color mixing system – Blue	0 - 100%	0255	00FF	0100
11) Blue-fine	Color mixing system – Blue-		0255	00FF	0100
,	low		5200	55	5100
12) Shutter	Shutter closed		015	000F	05,5
	Shutter pulse random	slow – fast	1647	102F	618,5
	Shutter ramp up	slow – fast	4879	304F	1931
	Shutter ramp down	slow – fast	80111	506F	3243
	Shutter ramp up/down	slow – fast	112143	708F	4456
	Random strobe	slow – fast	144159	909F	5762
	Strobe effect pause	5s0,1s	160199	A0C7	6377
	Strobe effect slow - fast	1 Hz 25 Hz	200241	C8F1	7895
	Shutter open		242255	F2FF	96100
13)Dimmer-coarse	Dimmer	0% - 100%	0255	0FF	0100
14) Dimmer- fine	Dimmer low		0255	0FF	0100
15) Color temp.	No color temperature		07	007	02,5
io, color tompi	correction		07	007	02,0
	Continuous color temperature correction between 7200k -	Applicable for ALL colors 5)	8255	08FF	3100
	3200k	COIOIS			
12) Gobo Shake & Special	Gobo Shake for Gobowheel 1+2 off		0 15	000F	05,5
				1.5	
	Gobo Shake Gobowheel 1	Speed 1 Size 18	1623	1017	69
		Speed 2 Size 18	2431	181F	9,512
		Speed 3 Size 18	3239	2027	12,515
		Speed 4 Size 18	4047	282F	15,518
		Speed 5 Size 18	4855	3037	18,521,5
		Speed 6 Size 18	5663	383F	2224,5
		Speed 7 Size 18	6471	4047	2527,5
		Speed 8 Size 18	7279	484F	2830,5
	Gobo Shake Gobowheel 2	Speed / Size see	80143	5090	3156
		Gobo Shake Gobowheel 1			
	Gobo Shake Gobowheel 1+2	Speed / Size see	144207	91CF	56,581
	Cose chane cosemical 112	Gobo Shake		0 1 0 1	00,0.101
		Gobowheel 2			
	Reset 1	Only Head	250253	FAFC	9899
	Reset 2	All Funktions	254255	FDFF	100
17) Zoom coarse	Stepless adjustable Zoom	10°- 32°	0 255	0F F	0100
18) Zoom fine	Zoom low	(0% - 100%)	0255	0FF	0100
19) Focus coarse	Stepless adjustable Focus	infinity - near	0 255	0FF	0100
20) Focus fine	Focus low	(0% - 100%)	0255	0FF	0100
21)Gobo1	Gobo 1 (open)	,	015	000F	05,9
(indexed)	- (-1 - /				,-
(Gobo 2		1631	101F	611,9
	Gobo 3		3247	20 2F	1217,9
	Gobo 4		4863	30 3F	19 24,5
	Gobo 5		6479	404F	2530,5
	Gobo 6		8095	505F	3137,5
	Gobo 7		96111	606F	3843,5
	Gobo 8		112126	7082	4448
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128192	80C0	5076
	Gobo rotation, fast-slow,		193255	C1FF	77100
	CCW				
ı		<u> </u>	1		

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22) Gobo 1	Gobo position 0 540°		0127	007F	049
Posi./Rot coarse	Gobo rotation STOP		128129	8081	50
	Gobo rotation, slow-fast, CW		130192		5175
	Gobo rotation, fast-slow,		193253	C1FD	7699
	CCW				
	Gobo rotation STOP		254255	FDFF	99100
23) Gobo 1 rot fine	Gobo 1 rot. low	(0% - 100%)	0255	0FF	0100
24)Gobo2	Gobo 1 (open)		015	000F	05,9
(indexed)					
	Gobo 2		1631	101F	611,9
	Gobo 3		3247	20 2F	1217,9
	Gobo 4		4863	30 3F	19 24,5
	Gobo 5		6479	404F	2530,5
	Gobo 6		8095	505F	3137,5
	Gobo 7		96111	606F	3843,5
	Gobo 8		112126	7082	4448
	Gobo rotation STOP		127	7F	49
	Gobo rotation, slow-fast, CW		128192		5076
	Gobo rotation, fast-slow,		193255	C1FF	77100
	CCW				
25) Gobo 2	Gobo position 0 540°		0127	007F	049
Posi./Rot coarse	Gobo rotation STOP		128129		50
	Gobo rotation, slow-fast, CW		130192		5175
	Gobo rotation, fast-slow, CCW		193253	C1FD	7699
	Gobo rotation STOP		254255	FDFF	99100
26) Gobo 2 rot fine	Gobo 2 rot. Low	(0% - 100%)	0255	0FF	0100
27) Effect wheel swing	Stepless swing of the "Motion Wheel"	0 - 100%	0255	00FF	0100
	Rotating stop		01	0001	001
28) Effect wheel	Rotating slow - fast CW	_	1128	0180	150
Posi./Rot	Rotating fast - slow CCW		129254	81FD	5199
	Rotating stop		254255	FDFF	99100
29) Prism	Prism swing out		05	0005	02
	Prism position 0 540°		6127	067F	050
	Prism rotation stop		128129		50,1
	Prism rotation, slow-fast, CW		130192	82C0	5175
	Prism rotation, fast-slow, CCW		193253	C1FD	7699
	Prism rotation stop		254255	FDFF	99.100
30) Iris coarse	Iris open – closed		0131	0083	0052
31) Iris fine	Iris low		0255	00FF	00100
,	1	1	J <u></u>		5555

Locking and unlocking the Control Panel

The Display will auto look automatically if the Touch Panel will not use for 10s. To unlook the Touch Panel you have to press one of the menu buttons for 2s..





1) Colors

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 Spot One** will then begin from that color and execute the rainbow effect synchronously. Different **Impression Spot One** 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 is started from one of the predefined colors (see also 1) before).

4) Attention:

Please note that shutter frequencies over 10 Hz are prohibited in some countries. Especially frequencies in the range of 5 - 12 Hz can possibly cause epileptic seizures → continuous blink irritation with a latency period of min. 70 ms. Please also refer to the relevant legislation of each country (For Germany for example: BGI 810-4 (Anhang 2) "Sicherheit bei Produktionen und Veranstaltungen - Scheinwerfer").

5) Color Temperature

At anytime the **IMPRESSION Spot One** can be used the color correction for every RGB color.



3 Changing Gobos and the Effect wheel

3.1 Changing Gobos and the Effect wheel

The **Impression Spot One** is equipped both with Aluminum- and Glass gobos (outside diameter 27 mm, image size 20 mm). When using customized Gobos like company logos and writing the recommended image size is 18 mm. You can use either Aluminum (thickness = 0.5 mm) or glass gobos (thickness = 1.1 - 3.0 mm).

There are two gobo wheels with rotating gobos, with all gobos being interchangeable.

3.1.1 General remarks for changing gobos

All gobos or other optical effects have a dedicated mounting direction. To prevent undesired damages and to optimize the optical performance of your gobos, all gobos should be mounted with their reflecting side towards the LED light source.

- a) Aluminum gobos must be mounted with their unpainted side towards the LED light source, and the black painted side towards the front lens.
- b) Glass gobos must be mounted with their reflecting, or coated side, towards the LED light source.

To find out which is the coated side of a glass gobo, take a pencil and place the point gently on the gobo. If you have touched the coated side, there will be no distance between the pencil tip and its reflection in the gobo. If you have touched the uncoated side, there will be a small distance between the pencil tip and its reflection

Attention: Customized gobos like company logos, or those with writing also need to be placed in the holder with the correct orientation to ensure that the projected image reads correctly. Place the side of the gobo which reads correctly towards the LED light engine to ensure that it projects properly. Remember that the reflective side of the gobo should also be towards the LED light source, so please instruct the gobo manufacturer accordingly when having customized gobos made.



c) Glass Gobos with a structured surface must be mounted with the structured surface towards the LED light source and the flat side towards the front lens.

3.1.2 Changing rotating gobos

- 1) Open the fixture, using the quarter turn screws on the top cover.
- 2) Press the gobo holder at the outer part of the wheel carefully out of the hub. Pull it softly out of the central spring holder jig.
- 3) Now the gobo itself can be exchanged inside the gobo holder. Remove the concentric spring with a small screwdriver or gripping pliers. Change the gobo and put the spring in again.
- 4) Place the gobo holder back into the central spring holder jig in the middle of the gobo wheel and snap it into place. You can open the central spring holder with a bent screwdriver through a hole from the opposite side of the wheel.
- 5) Push the gobo holder in the dedicated hub.

<u>Attention:</u> There must be no gap between the gobo holder and the wheel afterwards. Check for a tight fit.



Gobowheel 1 (Rotation Gobos Ø 27 mm)

Position			
1		4 Circles	
2		Vertical Bars	
3		Two Light Tunnels	
4		Triangles Random	
5		Dash Mini	
6		Dots Medium	
7	*	Starry Night Dense	



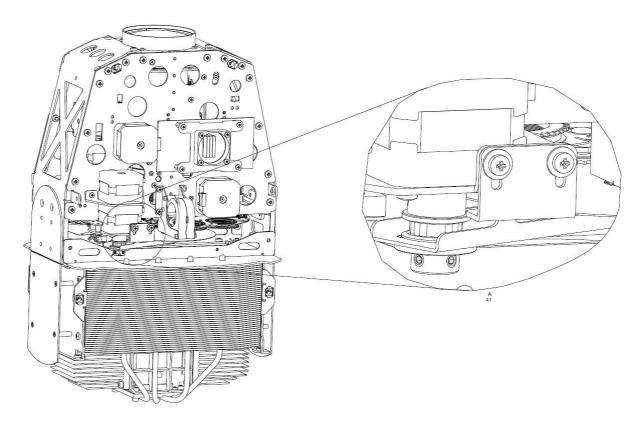
Gobowheel 2 (Rotation Gobos Ø 27 mm)

Docition		
Position 1	Cone	
2	Leaves Foliage	
3	Teeth	
4	Shreds	
5	Angry Hurricane	
6	Shredded Earth	
7	Diamond Pattern	

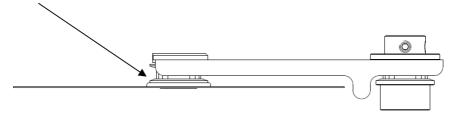


3.1.3 Changing the effect wheel

- 1) Open the fixture.
- 2) Release the mechanical stop of the effect and move it up.



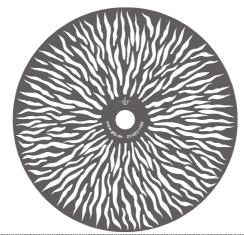
- 3) The Effect wheel can now be tilt out by hand.
- 4) The wheel itself is clipped on the wheel axis.
- 5) To remove it please use a slotted screwdriver and lift it out carefully from the wheel axis of the effect wheel.



- 6) **Attention:** Don't pull the effect wheel out by grapping it with the hands at the border!
- 7) Change Effect wheel as desired and close the module in reverse order again.



Effect wheel insertion and spares:



SPARE SPARE

SPARE

SPARE

SPARE

SPARE

SPARE





4 Colored Error Code

These state match to the following errors of the Impression Spot one:

	Color	Meaning	Comment
I	Red	critical state	PCB could not find
Ī	Yellow	abnormal state	PCB send error back (hall sensor not found, encoder error,)
ĺ	Green	normal state	Reset successful / finished error freet
	White	neutral	Reset activ, no state determined at the moment

5 Maintaining and Cleaning the Impression Spot one

The **Impression Spot one** is a low maintenance fixture. It is only necessary to clean the lenses, air inlets and outlets 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. **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
Outside optic	weekly	soft cloth and glass cleaning fluid
Gobos	yearly	vacuum cleaner, airbrush, etc.
Glass gobos	yearly	soft cloth and glass cleaning fluid
Prism	yearly	soft cloth and glass cleaning fluid
Iris	yearly	vacuum cleaner, airbrush, etc.
Inside lens	yearly	soft cloth <u>no</u> glass cleaning fluid
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.
Moveable parts	yearly	suitable fatty oil

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 supply				
Power consumption	700 VA (Watt)				
Power input	Auto sensing 100-240 V AC, 50-60 Hz				
Fuse protection	Micro-fuse 6.3x32 mm, T8A				
Operational Parameters					
Max. ambient temp.	45℃ / 113℉ (integrated overheating switch)				
Mounting position	Any (See Mounting chapter)				
Lighting System - Addit	ive Color mixing				
LED type	400W RGB LED Chipset				
Lifetime	20.000 h				
Shutter / Dimmer (8/16 Bit)					
Strobe Effect with variable speed between 1 & 50 flashes per second, Random strobe, Pulse effects					
Continuous dimmer 0 - 10	00%				

Prism (8 Bit)

Rotating 3-facet prism, bi-directional and variable in speed

Focus (8/16 Bit)

Motor driven focus from near (1 mtr.) to infinity

Iris (8Bit)

High speed iris 100% - 4% (0,2 Sec. opening time)

Effect wheel (8/16 Bit)

Rotating and indexable effect wheel, bi-directional and variable in speed.

Interchangeable for different patterns

Zoom (8/16 Bit)

Zoom range 10°- 32°

Gobos (8/16 Bit)

Gobo wheel 1 & 2: each 7 interchangeable rotating and indexed gobos plus open, variable speed and bi-directional

Gobo dimensions:Glass gobo thickness: 1.1 - 3.0mm

Aluminium gobo thickness: 0.5mm / Outside diameter: 27 mm / Image size: max. 20 mm. For customized gobos like company logos and text the recommended image size is 18 mm.

DMX Control

Standard USITT DMX-512, 3/5 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1.

Pan / Tilt (8/16 Bit) - 3 ph	Pan / Tilt (8/16 Bit) - 3 phase stepper motor				
Pan- movement	660° (Position Feedback)				
Tilt- movement	280° (Position Feedback)				
Weights and Measures					
Width of the base	472 mm / 18.6 inch.				
Length of the base	230mm / 9 inch.				
Height (head vertical)	618mm / 24.3 inch.				
Fixture weight	23 kg / 50.7 lbs.				
Floor stand weight	2 kg / 4.4 lbs.				





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