VOLKS LICHT SPOT

struction Manua



from software version 1.07 (Instruction version 1.01)



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Notes:	
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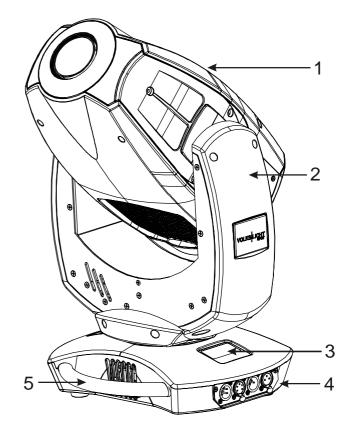
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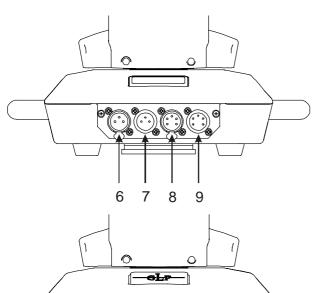
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1 Description of Device

- 1. Moving head (actively cooled)
- 2. Arm with various cooling vents
- 3. LCD-Display/Menu (data entry)
- 4. Base with various connectors and Camlock mounting system
- 5. Carrying handle. Also used to attach the safety cable





11 12 13

- 6. DMX- Output (3 pin)
- 7. DMX- Input (3 pin)
- 8. DMX- Output (5 pin)
- 9. DMX- Input (5 pin)
- 10. Power On-/Off
- 11. Power-In (powerCON/blue)
- 12. Micro-fuse 5x20mm, T5A
- 13. Power-Out (powerCON/grey)

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1.1 Safety Instructions



The **VOLKSLICHT SPOT** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules. The manufacturer of this device will not take responsibility for damages through any disregard of the information provided in this manual. Warranty claims also will be voided in the case that the fixture housing is opened.

- 1. Before powering on the fixture, make sure that the fixtures fans and air inlets are clean and not blocked.
- Ensure that the fixture head can rotate unhindered throughout its complete range of pan and tilt movement. A safety distance of at least 0.5 m must be maintained between the fixture and any easily inflammable material (e.g. decoration material).
- 3. <u>Attention!</u> Don't touch the fixture during the operation. This can cause injuries and/or damages.
- 4. It is necessary to wait at least 15 minutes after disconnecting the mains power before handling the fixture.. Pay attention to possible hot parts of the fixture.

 -- Danger of BURNING --
- 5. Use only one DMX Input / Output at the same time.
- 6. Never look directly into the beam of light or into one of the LEDs.

 Never use optical apertures to observe the beam of light. LED Class 2M.

 You'll risk serious injury of your eyes and in particular of your retina.



Attention: <u>LED Class 2M</u> can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

Hence: Avoid direct radiation into your eyes!

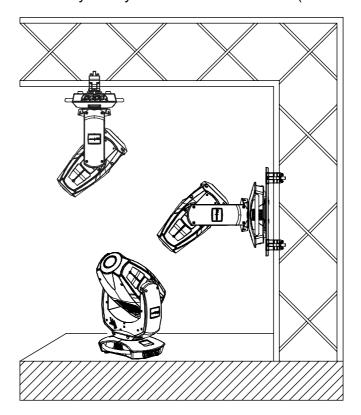
- To ensure safe operation, follow also the Installation guide described in chapter 2. Operating the VOLKSLICHT SPOT without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident and must be avoided.
- 8. Repair, maintenance, and installation work shall be done by qualified or GLP certified staff only. You need to pay attention to the common rules of technology that are not explicitly mentioned in this manual.
- 9. Use only original GLP spare parts. Any structural modification of the system will terminate all warranty claims.
- 10. Please keep this instruction manual for future reference.



2 Preparation and Installation

2.1 Mounting

The **VOLKSLICHT SPOT** 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), DIN VDE 0711-217 and BGI 810-3.

The installation shall be done by qualified staff only.

For the various mounting positions of the **VOLKSLICHT SPOT** (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.

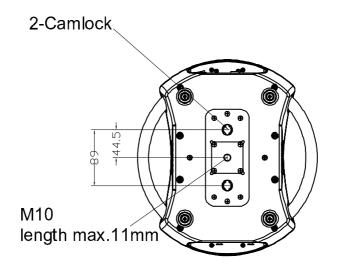
2.1.1 Mounting on the floor (upright)

The **VOLKSLICHT SPOT** is equipped with four robust rubber feet. This allows a firm and safe stand on even surfaces.



2.1.2 Mounting in hanging position (Head down)

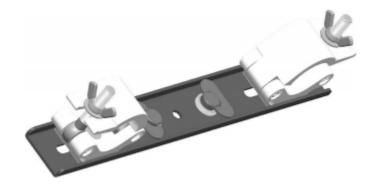
To operate the **VOLKSLICHT SPOT** in an hanging position, please attach one half-coupler centrically with a M10 thread bolt (max. length 11 mm). You can also use a dedicated mounting plate which is attached to the fixture through two Camlock quick connectors → see section below.



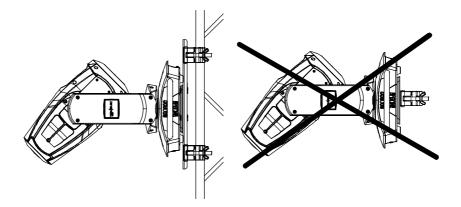
2.1.3 Mounting in a sideway Position

To operate the **VOLKSLICHT SPOT** in a sidewise position, please use the dedicated mounting plate which is attached to the fixture two Camlock quick connectors.

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 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 **VOLKSLICHT SPOT** you'll have to use a stipulated safety wire. Swipe it through one of the two handles of the fixture and connect it to the primary support structure. Pay attention to a safe and proper fastening. The safety cable must comply with BGI 810-3 (EN 60598-2-17 Section 17.6.6) and be capable of bearing a static suspended load that is ten times the weight of the fixture and all installed accessories.

2.3 Connections

2.3.1 Power Supply

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

Connected load 400 VA (W) <=> T5A (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 NEUTRIK® powerCON

The **VOLKSLICHT SPOT** is fitted with NEUTRIK® powerCON locking 3 conductor AC connectors. Up to max. 11 fixtures can be linked via the power outlets staying within the power limits of the 20A of the connectors.

Note: Regional regulations and limits might be lower and differ from that.



Picture: Courtesy of NEUTRIK® AG



2.3.3 DMX

USITT DMX-512 Standard input/output in 3 & 5 pin connectors.

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

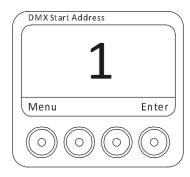
5 pin: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4/5 n.c.

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

3 The Menu Field

You'll find the illuminated control board on the upper side of the base. It allows you to make all necessary adjustments of the system.

The current DMX address will be shown on the top level of the menu. Use the **Enter**-key to adjust the DMX address or press the **Menu**-key to reach the next level of the menu where other settings can be made.



With the **Enter**-key you reach 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. Adjust them and set functions **ON/OFF** with the **Up/Down**-keys. Confirm and save it with the **Enter**-key (the display shows **OK**).

Use the **Back**-key to cancel the entry and to go back to the main menu.



← BACK - ENTER →

	Level1	Level 2	Level 3	Level 4
	DMX Start Address			
	Special	Manual DMX		
^			Pan	
UP →			Iris	
•			Focus	
Z ≷			Gobo2	
← DOWN			Rot Gobo 1	
V			Gobo 1	
			P/T Speed	
			P/T Movement	

Remark
Define the DMX start address
Manual control of all system functions
Manual control for Pan (X-movement)
Manual control for the Iris
Manual control for the Focus
Manual control for the Gobo 2
Manual control for the rotation of Gobo 1
Manual control for the Gobo 1
Manual control for Pan/Tilt Speed
Manual control for Pan/Tilt Movement

\leftarrow BACK - ENTER \rightarrow

			ENIER →		-
	Level1	Level 2	Level 3	Level 4	Remark
			Special		Manual control for special
			White Temp		Manual control for White Temperature
			Dimmer		Manual control for the Dimmer
			Shutter		Manual control for the 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)
		Adjust	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
			Display Contrast		Adjustment of the Display contrast
1			Pan Offset?		Calibration of the Pan-Offset
- UP			Tilt Offset?		Calibration of the Tilt-Offset
			Gobo 2		Calibration of the Gobo 2-Offset
DOWN			Gobo 1		Calibration of the Gobo 1-Offset
\downarrow			Prism		Calibration of the Prism-Offset
			Focus		Calibration of the Focus-Offset
			LED Adjust		
				White Adj. Red	Calibration of Red for a uniform White (white balance)
				Offset Adj. Blue	Calibration of Blue offset
				Offset Adj. Green	Calibration of Green offset
				Offset Adj. Red	Calibration of Red offset
				White Adj. Blue	Calibration of Blue for a uniform White (white balance)
				White Adj. Green	Calibration of Green for a uniform White (white balance)
			Clear EEPROM		Erase EEPROM memory
			Diagnose		Diagnose functions (For authorized service only)
		Temperature Head			Reads out the temperature of the head
		Default Full Feature			Resets all functions to their default values
		Display Black out			Auto switch-off display illumination after 10 seconds
		DMX Hold			"Holds" last DMX signal in case of signal loss





\leftarrow BACK - ENTER \rightarrow

Level1	Level 2	Level 3	Level 4	Remark
	Set DMX			
	Image	Set Image if		Activates a stored scene if DMX is off
		DMX off Save Image in		Stores the scene currently sent to the
		Memory		unit
	DMX Monitor			Indicates the presently received DMX signal per DMX channel
		Pan		Instantaneous value for Pan
		Iris		Instantaneous value for Iris
		Focus		Instantaneous value for Focus
		Gobo2		Instantaneous value for Gobo 2
		Rot Gobo 1		Instantaneous value for Rotating Gobo 1
		Gobo 1		Instantaneous value for Gobo 1
		P/T Speed		Instantaneous value for Pan/Tilt Speed
		P/T Movement		Instantaneous value for Pan/Tilt Movement
		Special		Instantaneous value for Special
		White Temp		Instantaneous value for White Temperature
		Dimmer		Instantaneous value for Dimmer
		Shutter		Instantaneous value for Shutter
		Blue		Instantaneous value for Blue
		Green		Instantaneous value for Green
		Red		Instantaneous value for Red
		Color Wheel		Instantaneous value for Color Wheel
	1	Tilt		Instantaneous value for Tilt
Self Test Program				Initiates a self-test program
Live Time				Indicates the overall operation time of the system
Set DMX Mode				Select the desired DMX Mode
	Normal			Fixture works in "Normal" mode
	High Res.			Fixture works in "High Resolution" mode
	Compressed			Fixture works in "Compressed" mode
Position Feedback		-		On/Off
Reverse Pan				ON/OFF: Invert Pan movements
Reverse Tilt				ON/OFF: Invert Tilt movements



← BACK - ENTER →

Level1	Level 2	Level 3	Level 4	Remark
Reset				RESET and new calibration for all fixture functions

4 DMX Channel Selection (DMX Protocol)

Normal-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 + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt-	0 300°		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 - Red 1)		815	080F	35,5
	Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1)		6471	4047	2527,5
	Color 09 - Lavender 1)		7279	484F	2830,5
	Color 10 - Mauve 1)		8087	5057	3134,5
	Color 11 - Magenta 1)		8895	585F	3537,5
	Color 12 - Pink 1)		96103	6067	3840,5
	White - CTO		104111	686F	4143,5
	White		112119	7077	4446,5
	White - CTB		120127	787F	4749,5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect 4)	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns) 4)	slow - fast	4879	304F	1931
	Shutter open then down-dimming (random patterns) 4)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns) 4)	slow - fast	112143	708F	4456
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240255	F0FF	94.4100
10) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
11) Color	Continuous color temperature	Applicable for ALL	0255	0FF	0100
temp.	correction between 10000k - 2500k	colors			



Channel	Function			Time and Value	DMX	HEX	%
12) Gobo 1	Open position	on			015	00F	05.5
(indexed)	Gobo 1				1631	101F	612
	Gobo 2				3247	202F	12.518
	Gobo 3				4863	303F	1924.5
	Gobo 4				6479	404F	2531
	Gobo 5				8095	505F	31.537
	Gobo 6				96111	606F	3843.5
	Gobo 7				112.129	7081	4450.5
	Gobo rotation			slow → fast	130192	82C0	5175
	Gobo rotation			fast → slow	193254	C1FE	75.599
	Gobo rotation				255	FF	100
13) Gobo 1	Gobo position		0°		0127	007F	049
Posi./Rot.	Gobo rotation				128129	8081	50
	Gobo rotation			slow → fast	130192	82C0	5175
	Gobo Rotati			fast → slow	193254	C1FE	7699
14) Gobo 2	Open position	on			07	0007	02.5
(fixed)	Gobo 1				815	080F	35.5
	Gobo 2				1623	1017	69
	Gobo 3				2431	171F	9.512
	Gobo 4				3239	2027	12.515
	Gobo 5				4047	282F	15.518
	Gobo 6				4856	3038	18.522
	Gobo 7				5763	393F	2324.5
	Gobo 8				6471	4047	2527.5
	Gobo 9				7279	484F	2831
	Gobo 10				8087	5057	31.534
	Gobo 11				8895	585F	34.537
	Gobo wheel			slow → fast	130193	82C1	5175.5
	Gobo wheel			fast → slow	194254	C2FE	7699
45) 5	Gobo wheel		тор		255	FF	100
15) Focus	Continues F			infinity – near	0 255	0FF	0100
16) Prism	Prism swing				05	0005	02
	Prism position				6127	067F	050
	Prism rotation				128129	8081	50,1
	Prism rotation			alaw	130253	_	5199
	Prism by audio			slow fast	254 255	FE FF	99.5 100
47) Iria	Prism by au	uio					
17) Iris	Iris			open - close	0 255	00FF	0100
18) Special	RESET	0-6-0		keep for 3 sec.	250255	FAFF	98100
	Goboshake – Gobo 2 Goboshake – Gobo 1			slow → fast	80143 1679	508F	3156
	Gobosnake Gobo – sho			slow → fast		104F 080F	630
40) Mayra					815		35
19) Move-	No movement		Dhasa		0	0	0
ment	Movement	Size	Phase 0°		04 04	04 04	0.5
	PAN	1	90°		0101	0101	0,5
		1	180°		0203	0203	1,0
		1	270°		0405 0607	0405 0607	1,7
	PAN	2	0°		0809	0807	2,5 3,3
	LUIN	2	90°		1011	0809 0A0B	4,1
		2	180°		1213	0C0D	4,1
		2	270°		1415	0E0F	5,7
	PAN	3	0°		1617	1111	6,5
	I AIN	3	90°		1819	1213	7,3
II		10	190		1018	1410	1,5





Channel	Function			Time and Value	DMX	HEX	%
		3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
		4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT		size / phase	size / phase see also PAN		203F	1325
	PAN / TIL	Т	size / phase	size / phase see also PAN		405F	2637
	PAN / TIL	T (inverse)	size / phase	size / phase see also PAN		607F	3850
	Circle		size / phase	size / phase see also PAN size / phase see also PAN size / phase see also PAN	128159	809F	5162
	Circle (inv	erse)	size / phase		160191	A0BF	6375
	Lying eigh	nt	size / phase		192223	C0DF	7687
	Random r	novement	size see als	o PAN	224255	E0FF	88100
20) Speed	Pan/Tilt relative movement			001	0001	01	
Pan/Tilt	Pan/Tilt slow - fast				02255	02FF	1.5100
	Use this channel also for the SPEED of the movements						

Compressed-Mode 17 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
1) PAN-	0 660°		0255	00FF	0100
coarse					
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt-	0 300°		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 - Red 1)		815	080F	35,5
	Color 02 - Amber 1)		1623	1017	68,5
	Color 03 - Warm Yellow 1)		2431	181F	912,5
	Color 04 - Yellow 1)		3239	2027	1315,5
	Color 05 - Green 1)		4047	282F	1618,5
	Color 06 - Turquoise 1)		4855	3037	1921,5
	Color 07 - Cyan 1)		5663	383F	2224,5
	Color 08 - Blue 1)		6471	4047	2527,5
	Color 09 - Lavender 1)		7279	484F	2830,5
	Color 10 - Mauve 1)		8087	5057	3134,5
	Color 11 - Magenta 1)		8895	585F	3537,5
	Color 12 - Pink 1)		96103	6067	3840,5
	White - CTO		104111	686F	4143,5
	White		112119	7077	4446,5
	White - CTB		120127	787F	4749,5
	Rainbow Effect Stop 2)		128	80	50
	Rainbow Effect 3)	slow - fast	129223	81DF	5188
	Rainbow Effect, random colors	slow - fast	224.255	E0FF	89100
6) Red	Color mixing system - Red	0 - 100%	0255	00FF	0100
7) Green	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Blue	Color mixing system - Blue	0 - 100%	0255	00FF	0100
9) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect 4)	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns) 4)	slow - fast	4879	304F	1931





Channel	Function	Time and Value	DMX	HEX	%
	Shutter open then down-dimming (random patterns) 4)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns) 4)	slow - fast	112143	708F	4456
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240255	F0FF	94.4100
10) Dimmer	Dimmer	0 - 100%	0255	0FF	0100
11) Gobo 1	Open position		015	00F	05.5
(indexed)	Gobo 1		1631	101F	612
	Gobo 2		3247	202F	12.518
	Gobo 3		4863	303F	1924.5
	Gobo 4		6479	404F	2531
	Gobo 5		8095	505F	31.537
	Gobo 6		96111	606F	3843.5
	Gobo 7		112.129	7081	4450.5
	Gobo rotation CCW	slow → fast	130192	82C0	5175
	Gobo rotation CW	fast → slow	193254	C1FE	75.599
	Gobo rotation Stop		255	FF	100
12) Gobo 1	Gobo position 0 540°		0127	007F	049
Posi./Rot.	Gobo rotation STOP		128129	8081	50
	Gobo rotation CW	slow → fast	130192	82C0	5175
	Gobo Rotation CCW	fast → slow	193254	C1FE	7699
13) Gobo 2	Open position		07	0007	02.5
(fixed)	Gobo 1		815	080F	35.5
	Gobo 2		1623	1017	69
	Gobo 3		2431	171F	9.512
	Gobo 4		3239	2027	12.515
	Gobo 5		4047	282F	15.518
	Gobo 6		4856	3038	18.522
	Gobo 7		5763	393F	2324.5
	Gobo 8		6471	4047	2527.5
	Gobo 9		7279	484F	2831
	Gobo 10		8087	5057	31.534
	Gobo 11		8895	585F	34.537
	Gobo wheel rotation CCW	slow → fast	130193	82C1	5175.5
	Gobo wheel rotation CW	fast → slow	194254	C2FE	7699
	Gobo wheel rotation Stop		255	FF	100
14) Focus	Continues Focus	infinity – near	0 255	0FF	0100
15) Prism	Prism swing out		05	0005	02
	Prism position		6127	067F	050
	Prism rotation stop		128129	8081	50,1
	Prism rotation		130253	82FD	5199
	Prism by audio	slow	254	FE	99.5
	Prism by audio	fast	255	FF	100
16) Iris	Iris	open - close	0 255	00FF	0100
17) Special	RESET	keep for 3 sec.	250255	FAFF	98100
	Goboshake – Gobo 2	slow → fast	80143	508F	3156
	Goboshake – Gobo 1	slow → fast	1679	104F	630
	Gobo – short cut off		815	080F	35





Extended-Mode 20 DMX channels

	MIOGE 20 DIVIA CHAIIITEIS				
Channel	Function	Time and Value	DMX	HEX	%
1) PAN- coarse	0 660°		0255	00FF	0100
2) PAN-fine	High- Pos High- Pos + 2,6° (16 Bit)		0255	00FF	0100
3) Tilt- coarse	0 300°		0255	00FF	0100
4) Tilt-fine	High- Pos High- Pos + 1,2° (16 Bit)		0255	00FF	0100
5) Red- coarse	Color mixing system - Red	0 - 100%	07	0007	02,5
6) Red-fine	Color mixing system – Red low		0255	00FF	0100
7) Green- coarse	Color mixing system - Green	0 - 100%	0255	00FF	0100
8) Green- fine	Color mixing system – Green low				
9) Blue coarse	Color mixing system - Blue	0 - 100%			
	Color mixing system – Blue low		0255	00FF	0100
11) Shutter	Shutter closed		015	000F	05,5
	Random Pulse effect 4)	slow - fast	1647	102F	618,5
	Up-dimming then Shutter closing (random patterns) 4)	slow - fast	4879	304F	1931
	Shutter open then down-dimming (random patterns) 4)	slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns) 4)	slow - fast	112143	708F	4456
	Strobe effect pause	5s 1s	144199	A0C7	5777
	Strobe effect, slow - fast	1 Hz 10 Hz	200239	C8EF	7894
	Shutter open		240255	F0FF	94.4100
12) Dimmer- coarse	Dimmer	0 - 100%	0255	0FF	0100
13) Dimmer- fine	Dimmer low				
14) Gobo 1	Open position		015	00F	05.5
(indexed)	Gobo 1		1631	101F	612
	Gobo 2		3247	202F	12.518
	Gobo 3		4863	303F	1924.5
	Gobo 4		6479	404F	2531
	Gobo 5		8095	505F	31.537
	Gobo 6		96111	606F	3843.5
	Gobo 7	alaur \ fact	112.129	7081	4450.5
	Gobo rotation CCW	slow → fast	130192	82C0	5175
	Gobo rotation CW Gobo rotation Stop	fast → slow	193254 255	C1FE FF	75.599 100
15) Gobo 1	Gobo position 0 540°		0127	007F	049
Posi./Rot.	Gobo position 0 540 Gobo rotation STOP		128129	8081	50
. USI./INUL.	Gobo rotation CW	slow → fast	130129	82C0	5175
	Gobo Rotation CCW	fast → slow	193254	C1FE	7699
16) Gobo 2	Open position	TOOL / SIOW	07	0007	02.5
(fixed)	Gobo 1		815	080F	35.5
(,)	Gobo 2		1623	1017	69
	Gobo 3		2431	171F	9.512
	Gobo 4		3239	2027	12.515
	Gobo 5		4047	282F	15.518
	Gobo 6		4856	3038	18.522
II .	- -	<u>L</u>			





Channel	Function	Time and Value	DMX	HEX	%
	Gobo 7		5763	393F	2324.5
	Gobo 8		6471	4047	2527.5
	Gobo 9		7279	484F	2831
	Gobo 10		8087	5057	31.534
	Gobo 11		8895	585F	34.537
	Gobo wheel rotation CCW	slow → fast	130193	82C1	5175.5
	Gobo wheel rotation CW	fast → slow	194254	C2FE	7699
	Gobo wheel rotation Stop		255	FF	100
17) Focus	Continues Focus	infinity – near	0 255	0FF	0100
18) Prism	Prism swing out		05	0005	02
	Prism position		6127	067F	050
	Prism rotation stop		128129	8081	50,1
	Prism rotation		130253	82FD	5199
	Prism by audio	slow	254	FE	99.5
	Prism by audio	fast	255	FF	100
19) Iris	Iris	open - close	0 255	00FF	0100
20) Special	RESET	keep for 3 sec.	250255	FAFF	98100
	Goboshake – Gobo 2	slow → fast	80143	508F	3156
	Goboshake – Gobo 1	slow → fast	1679	104F	630
	Gobo – short cut off		815	080F	35

1) Color

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 **VOLKSLICHT SPOT** will then begin from that color and execute the rainbow effect synchronously. Different **VOLKSLICHT SPOT** 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

This will pause this function. After resuming the rainbow-effect will be continued with the current color.

3) The Rainbow-effect

This will run synchronously only if it is started from one of the predefined colors (see also 1) before).

4) ATTENTION Shutter:

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").

Random Shutter Timing:

Function	DMX value XX to YY	timing
Random Pulse Effect	1646	60 sec30 sec
	47	0.3 sec0.1 sec
Dimming in then shutter close (random)	4878	60 sec30 sec
	79	0.3 sec0.1 sec



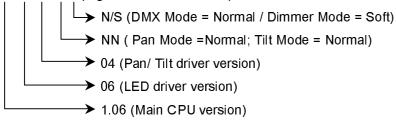


Shutter open then dimming out (random)	80110	60 sec30 sec
	111	0.3 sec0.1 sec
Dimming in then dimming out (random)	112142	60 sec30 sec
	143	0.3 sec0.1 sec

Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:

Vxx/xx/xx/xx/x (e.g. V1.06/06/04/NN/NS)



5 Changing Gobos

The **VOLKSLICHT SPOT** is equipped both with Aluminum- and Glass gobos (outside diameter 23 mm, image size max. 19 mm). When using customized Gobos like company logos, the recommended image size is 17 mm. You can use either Aluminum (thickness = 0.5 mm) or glass gobos (thickness = 1.1 - 3.0 mm).

Only gobos on wheel 1 are rotating and interchangeable. Gobos on wheel 2 are fixed.

5.1 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.
- c. 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.

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.

5.2 Changing rotating gobos (wheel 1)

- 1. Attention: The fixture must be disconnected from the mains supply!
- 2. Open the fixture, using the quarter turn screws on the top cover.
- Gobos are held in their respective holder by a metal spring alongside the outer diameter. Remove this spring carefully using for example a small screwdriver.
- 4. Take the gobo out of its holder. Pay attention not to drop it into the fixture.
- 5. Fit the new gobo into the holder securing it with the metal spring tightly.
- 6. Close the cover of the fixture again.

6 Maintaining and Cleaning the VOLKSLICHT SPOT

The **VOLKSLICHT SPOT** 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!



6.1 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.

6.2 Circumference and Interval (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 no 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.



7 Technical Specifications

Power supply		
Power consumption	400 VA (Watt)	
Power Input/Output	~100-240 V AC, 50-60 Hz (auto sensing input)	
Power connectors	NEUTRIK [®] powerCON	
	Power-in: NAC3FCA / NAC3MPA (blue)	
	Power-out: NAC3FCB / NAC3MPB (grey)	
Fuse protection	Micro-fuse 5x20 mm, T5A	
Operational Parameters		
Max. Ambient	45°C / 113°F (integrated overheating switch)	
Temperature		
Mounting Position	Any (see chapter mounting)	
Lighting System - Additive Color mixing		
LED Type	300 Watt RGB LED Light Engine	
Lifetime	Average service life: 20,000h	
Wavelength optimized for maximum presentable color space		
Optical System		
Fixed beam angle 13°		
Variable CTO control from	2500k - 10.000k	
Focus		
Motorized Focus, 2m - infi	nity	
Shutter / Dimmer, electri	cal	
Strobe- Effect with variable	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-	

Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects

Continuous Dimmer 0 - 100%

Prism

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

Gohos

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

Gobo wheel 2: 11 fixed gobos plus open

Gobo dimensions: Glass gobo thickness: 1.1 - 3.0mm

Aluminum gobo thickness: 0.5mm / Outside diameter: 23 mm / Image size: max. 19 mm. For customized gobos like company logos and text the recommended image size is 16 mm.

DAAY Construct

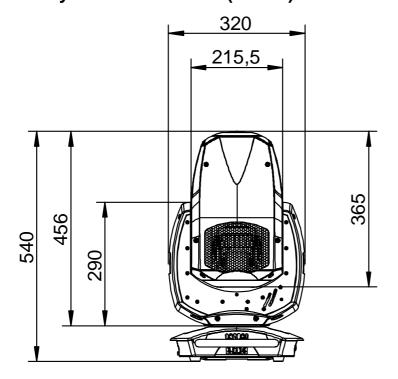
DMX Control

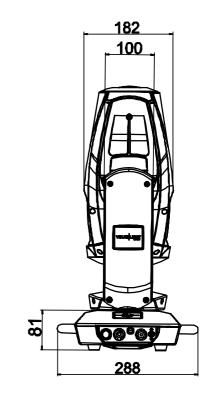
Standard USITT DMX-512, 3&5 pin XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1 [4/5 n.c.] The DMX- start address is [001] on DMX channel 1.

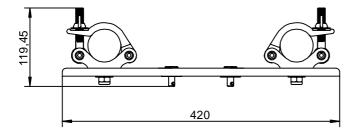
Pan/Tilt (8/16 Bit)		
Pan- movement	660° in min. 2 seconds, with position feedback	
Tilt- movement	300° in min. 1 seconds, with position feedback	
Weights and Measures		
Width of the base	320	
Length of the base	288 mm (incl. handles)	
Height (head vertical)	540 mm	
Weight (net)	15 kg	

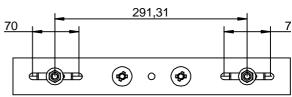


8 System dimensions (in mm)













Rotating Gobo wheel



Gobo 1



Gobo 2



Gobo 3



Gobo 4



Gobo 5



Gobo 6

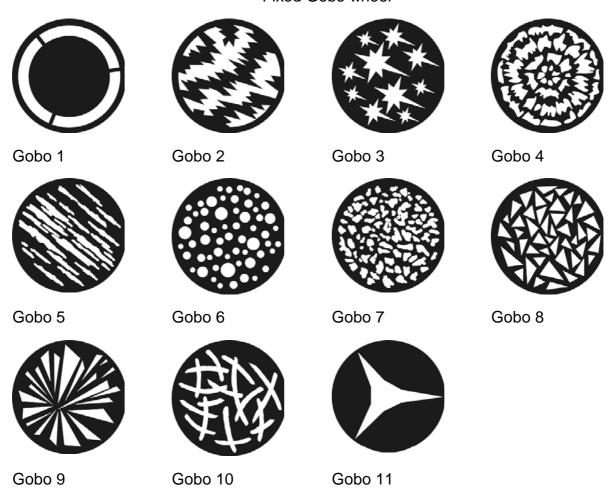


Gobo 7





Fixed Gobo wheel





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