VOLKSLICHT Manua **R-G-B** struction

from software version 1.15 (Instruction version 1.7)



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Notes:

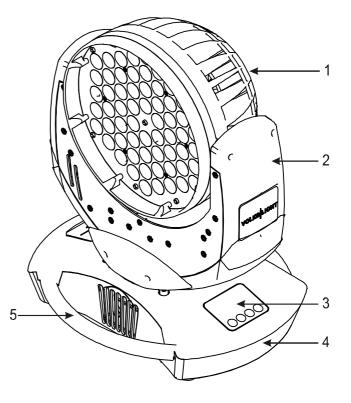


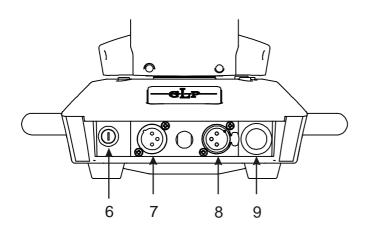
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1 Description of Device

- 1. Moving head (actively and passively 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. It is also used to attach the safety cable





- 6. Micro-fuse 5x20mm, T2A
- 7. DMX- Input (3 pole)
- 8. DMX- Output (3 pole)
- 9. Power On-/Off

1.1 Safety Instructions



The **VOLKSLICHT** 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.



If the external cable of this lighting is damaged, it should be replaced by the manufacturer or its service agent or a qualified person, to avoid danger.

- 1. Make sure that before powering up the fixture, the fans and air inlets are clean and not blocked by anything.
- 2. Before powering up the fixture, ensure that the moving head part of the fixture can rotate unhindered through its full range of movement.
- 3. A safety distance of at least 0.5 m to any easily flammable material (e.g. decoration material) must be adhered to.
- 4. <u>Attention!</u> Don't touch the device during operation. Parts of the fixture can become hot and can cause injuries and / or damages.
- 5. The system doesn't contain any user serviceable parts. Opening the fixture will void the manufacturers warranty.
- 6. Danger of burning. Wait at least 15 minutes after disconnecting the AC power before changing the optical carrier on the fixture. Pay attention to possible hot parts of the system.
- 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.

8.



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!

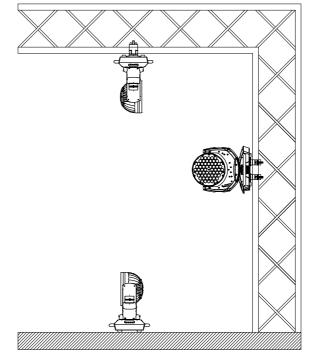


- 9. To ensure proper operation, you must also follow the installation guide described in chapter 2 of this manual. Operating the **VOLKSLICHT** without suitable mounting devices can increase the risk of an accident.
- 10. The **VOLKSLICHT** features a unique small and lightweight design with no specific 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.
- 11. Repair-, maintenance- and installation work should only be performed by qualified or GLP certified staff. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
- 12. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.
- 13. Please keep this instruction manual for future reference.

2 Preparation and Installation

2.1 Mounting

The **VOLKSLICHT** 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 staff only.

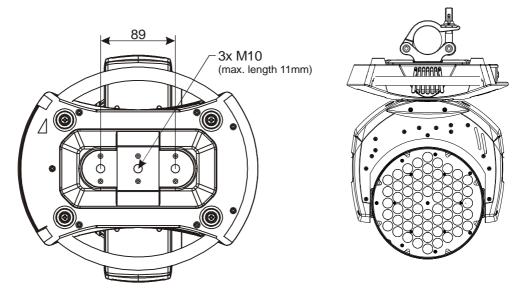
For the various mounting positions of the **VOLKSLICHT** (standing on the floor, sideways or hanging) different accessories kits are available. Using any required kits, along with the standard mounting connectors on the base of the fixture, will ensure a safe and firm installation.

2.1.1 Mounting on the floor (upright)

The **VOLKSLICHT** 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** in an hanging position, please use a halfcoupler (clamp) which is mounted directly onto the bottom side of the system. It is fixed centrically with a M10 thread bolt (max. length 11 mm).



2.1.3 Mounting in a sideway Position

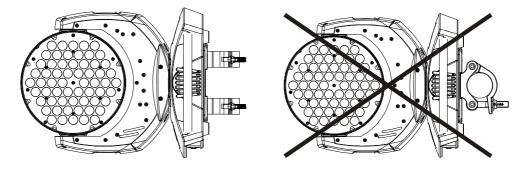
To operate the **VOLKSLICHT** in a sidewise position, please use **two** half-couplers (clamps) which are mounted directly onto the bottom side of the system. They are fixed with two M10 thread bolts (max. length 11 mm).

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.

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2.2 Securing the Device

Regardless of the mounting method of the **VOLKSLICHT** you'll have to use a secondary safety wire. This safety wire can be attached to the fixture by threading it through one of the two holes provided on the base of the fixture. Ensure that the safety wire is securely fastened through the fixture and the fixtures mounting support. Install a safety wire that can hold at least 10 times the weight of the fixture.

2.3 Connections

2.3.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug, via Powercon Connected load 180 VA (W) <=> T2A (micro-fuse 5x20mm) Please see printing on the case for the right electronic supply! **Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.**

2.3.2 DMX

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

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

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



3 The Menu Field

You'll find the 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.

DMX Start Addres	55 L
Menu	Enter



	Level1	Level 2	Level 3	Level 4	Remark
	DMX Start Address		Level 3		Define the DMX start address
	Special	Manual DMX			Manual control of all system functions
			Pan		Manual control for Pan (X-movement)
			Tilt		Manual control for Tilt (Y-movement)
			Speed		Speed adjustment for Pan/Tilt movements → see also item below
•			P/T		Manual control for Pan/Tilt macro movement
UP ⇒			Color Wheel		Manual control for the color wheel
•			Red		Manual control for red
DOWN			Green		Manual control for green
ă			Blue		Manual control for blue
¥			Special		Manual control for special
			Dimmer	-	Manual control for the dimmer
			Shutter		Manual control for the shutter
		Contrast		-	Adjustment for the Display contrast
		Default Set			Resetting all functions to original values
		Versions]		Reads out the current LED dimmer (software) version

\leftarrow BACK - ENTER \rightarrow

			_				
Adjus	st	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)			
		Diagnose	1	Diagnose functions			
		Pan Offset	(Calibration for Pan-Offset			
		Tilt Offset		Calibration for Tilt-Offset			
		Clear EEPROM		Erase EEPROM memory			
P/T Sp	peed			Normal Speed and Fast Speed			
Temp	eratures			Indicates the head and base temperature			
Testm	node		1	Performs an automatic self-test			
DMX	Hold			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption			
Positi Feedb			7	Automatically position feedback (correction) for Pan/Tilt movement. ON/OFF			
Adjus	t White		7	Adjustments for a uniform white color (white balance); only in white-mode			
		Red	1	Input for red adjustments			
		Green		Input for blue adjustments			
		Blue	1	Input for green adjustments			
DMX	Monitor			Indicates the presently received DMX signal per DMX channel			
Pan		Pan		Instantaneous value for Pan			
·		Tilt		Instantaneous value for Tilt			
		Speed		Instantaneous value for Speed			
		P/T	1	Instantaneous value for Pan/Tilt movements			
		Color Wheel		Instantaneous value for Colors			
		Red		Instantaneous value for Red			
		Green		Instantaneous value for Green			
		Blue		Instantaneous value for Blue			
		Special		Instantaneous value for Special			
		Dimmer		Instantaneous value for the Dimmer			
		Shutter		Instantaneous value for the Shutter			
Live time				Indicates the overall operation time of the system			
Display				Adjust the display			
E	Blackout		(ON/OFF: Display OFF			
Reverse Pan			(ON/OFF: Invert Pan movements			
Reverse Tilt			(ON/OFF: Invert Tilt movements			
Reset				RESET and new calibration for all functions			

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4 DMX Channel Selection (DMX Protocol)

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	00F F	0100
5) Color	Colors adjus	table via R0	ЭB		07	0007	02,5
(fixed)	Color 01 - R				815	080F	35,5
	Color 02 - A				1623	1017	68,5
	Color 03 - W		1)		2431	181F	912,5
	Color 04 - Ye				3239	2027	1315,5
	Color 05 - G				4047	282F	1618,5
	Color 06 - Tu				4855	3037	1921,5
	Color 07 - C				5663	383F	2224,5
	Color 08 - B				6471	4047	2527,5
	Color 09 - La				7279	484F	2830,5
	Color 10 - M				8087	5057	3134,5
	Color 11 - M				8895	585F	3537,5
	Color 12 - Pi				96103	6067	3840,5
	White - CTO			Color temperature 3200K	104111	686F	4143,5
	White			Color temperature 5600K	112119	7077	4446,5
	White - CTB			Color temperature 7200K	120127	787F	4749,5
	Rainbow Eff	ect Stop ²⁾			128	80	50
	Rainbow Eff			slow - fast	129223	81DF	5188
	Rainbow Effect, random colors			slow - fast	224.255	E0FF	89100
6) Red	Color mixing	system - R	ed	0 - 100%	0255	00FF	0100
7) Green	Color mixing	system - G	reen	0 - 100%	0255	00FF	0100
8) Blue	Color mixing			0 - 100%	0255	00FF	0100
9) Shutter	Shutter close				015	000F	05,5
,	Random Pul	se effect		slow - fast	1647	102F	618,5
	Up-dimming	then Shutte	er closing	slow - fast	4879	304F	1931
	(random pat		Ū				
	Shutter open then down-dimming (random patterns)			slow - fast	80111	506F	3243
	Up-dimming then down-dimming (random patterns)			slow - fast	112143	708F	4456
	Strobe effect			5s 1s	144199	A0C7	5777
	Strobe effect		ł	1 Hz 10 Hz	200239	C8EF	7894
Strobe effect ⁴		25 Hz	240	F0	94,4		
	Strobe effect ⁴⁾			50 Hz	241	F1	94,8
	Shutter open				242255	F3FF	95100
	Dimmer			0 - 100%	0255	0FF	0100
10) Dimmer					250255	FAFF	98100
10) Dimmer 11) Special							
11) Special	RESET	ent					
11) Special 12) Move-	RESET No moveme	1	Phase		0	0	0
11) Special	RESET No movement	Size	Phase		0	0	0
11) Special 12) Move-	RESET No moveme	1	Phase 0° 90°				

|--|

Channel	Function			Time and Value	DMX	HEX	%
		1	270°		0607	0607	2,5
	PAN	2	0°		0809	0809	3,3
		2	90°		1011	0A0B	4,1
		2	180°		1213	0C0D	4,9
		2	270°		1415	0E0F	5,7
	PAN	3	0°		1617	1111	6,5
		3	90°		1819	1213	7,3
		3	180°		2021	1415	8,0
		3	270°		2223	1617	8,8
	PAN	4	0°		2425	1819	9,6
		4	90°		2627	1A1B	10,4
		4	180°		2829	1C1D	11,2
		4	270°		3031	1E1F	12
	TILT		size / phase	e see also PAN	3263	203F	1325
	PAN / TIL	Т	size / phase	e see also PAN	6495	405F	2637
	PAN / TIL	T (inverse)	size / phase	e see also PAN	96127	607F	3850
	Circle		size / phase	size / phase see also PAN	128159	809F	5162
	Circle (inverse) Lying eight		size / phase	size / phase see also PAN	160191	A0BF	6375
			size / phase	size / phase see also PAN		C0DF	7687
	Random r	novement	size see als	so PAN	224255	E0FF	88100
13) Speed	This chan	nel is only for t	he SPEED of t	he movements not for	0255	00FF	0100
Pan/Tilt	Pan/Tilt	-					

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 **VOLKSLICHT** will then begin from that color and execute the rainbow effect synchronously. Different **VOLKSLICHT** 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⁾ <u>Attention:</u> 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 \rightarrow 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 Maintaining and Cleaning the VOLKSLICHT

The **VOLKSLICHT** 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 Circumference and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Hence no general guidelines can be given. The intervals given below are only suggestions from our practice experience.

Maintenance Task	Interval	How
Cleaning of LED lenses and optical system	weekly	soft brush /lint-free cloth
Cleaning of fans and air channels	monthly	vacuum cleaner, airbrush, etc.

Attention:

- Never let optical parts come into contact with oil or fat.
- Before running the fixture wait until all parts are touch dry.
- Never touch lenses with bare fingers.

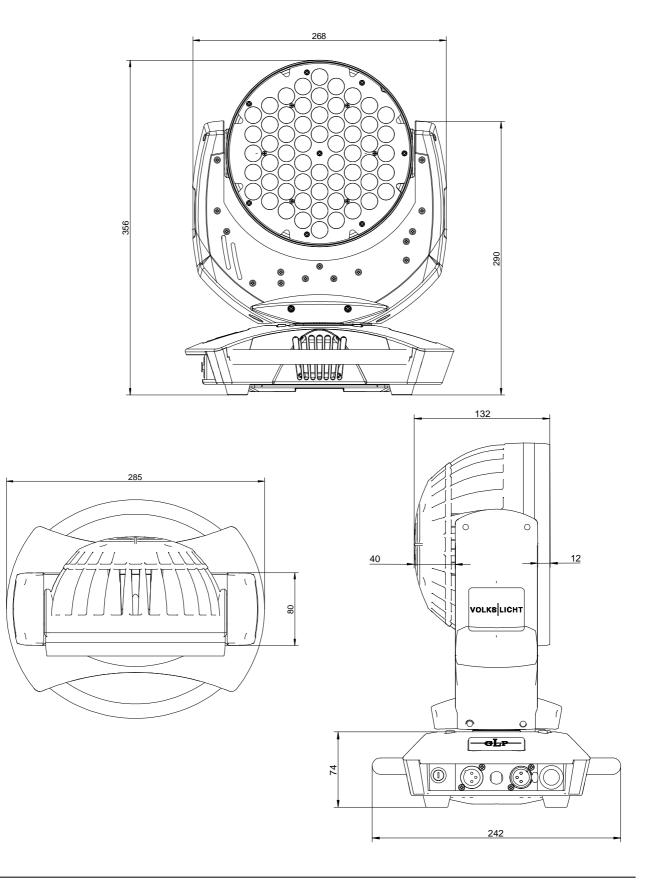


6 Technical Specifications

Power supply					
Power consumption	180 VA (Watt)				
Power Input	~100-240 V AC, 50-60 Hz (auto sensing input)				
Fuse protection	Micro-fuse 5x20 mm, T2A				
Operational Parameters					
Max. Ambient	45℃ / 113年 (integrated overheating switch)				
Temperature					
Mounting Position	Any (see chapter mounting)				
Lighting System - Additive	ve Color mixing				
LED Type	60x Luxeon Rebel High-power- LEDs				
Lifetime	50.000 h				
21x LEDs blue, 21x LEDs	•				
	maximum presentable color space				
Optical System					
High efficient Collimator cl					
	er with 10° light distrib ution angle (25° optional)				
Scattering light aperture					
Shutter / Dimmer (8 Bit)					
Strobe- Effect with variable Effects	e speed between 1 - 10 flashes per second, Random-Strobe, Pulse-				
Continuous Dimmer 0 - 10	0%				
DMX Control					
	, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. ts at the DMX channel [001].				
Pan/Tilt (8/16 Bit)					
Pan- movement	660° in min. 2 seconds, with position feedback				
Tilt- movement	300° in min. 1 seconds, with position feedback				
Weights and Measures					
Width of the base	285 mm				
Length of the base	242 mm				
height (head vertical)	356 mm				
Weight (net)	7,8 kg				



7 System dimensions (in mm)





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