

DMX Channel Index

VOLKS|LICHT_Z **R-G-B / Zoom**



from software version 1.06
(Instruction version 1.4)



— since 1994 —

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DMX Channel Selection (DMX Protocol)

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..FF	0..100	
5) Color (fixed)	Colors adjustable via RGB		0..7	00..07	0..2,5	
	Color 01 - Red ¹⁾		8..15	08..0F	3..5,5	
	Color 02 - Amber ¹⁾		16..23	10..17	6..8,5	
	Color 03 - Warm Yellow ¹⁾		24..31	18..1F	9..12,5	
	Color 04 - Yellow ¹⁾		32..39	20..27	13..15,5	
	Color 05 - Green ¹⁾		40..47	28..2F	16..18,5	
	Color 06 - Turquoise ¹⁾		48..55	30..37	19..21,5	
	Color 07 - Cyan ¹⁾		56..63	38..3F	22..24,5	
	Color 08 - Blue ¹⁾		64..71	40..47	25..27,5	
	Color 09 - Lavender ¹⁾		72..79	48..4F	28..30,5	
	Color 10 - Mauve ¹⁾		80..87	50..57	31..34,5	
	Color 11 - Magenta ¹⁾		88..95	58..5F	35..37,5	
	Color 12 - Pink ¹⁾		96..103	60..67	38..40,5	
	White - CTO	Color temperature 3200K		104..111	68..6F	41..43,5
	White	Color temperature 5600K		112..119	70..77	44..46,5
	White - CTB	Color temperature 7200K		120..127	78..7F	47..49,5
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	E0..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) 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 .. 1s		144..199	A0..C7	57..77
	Strobe effect, slow - fast ⁴⁾	1 Hz .. 10 Hz		200..239	C8..EF	78..94
	Strobe effect ⁴⁾	25 Hz		240	F0	94,4
	Strobe effect ⁴⁾	50 Hz		241	F1	94,8
Shutter open			242..255	F3..FF	95..100	
10) Dimmer	Dimmer	0 - 100%	0..255	0..FF	0..100	
11) Color Temperature	Continuous color temperature correction in the range 3200K - 7200K	Applies only to white ⁵⁾	0..255	0..FF	0..100	
12) Special	RESET		250..255	FA..FF	98..100	
13) Movement	No movement		0	0	0	
	Movement	Size	Phase			
	PAN	1	0°	01..01	01..01	0,5

Channel	Function	Time and Value	DMX	HEX	%
	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	3,3
		2	90°	10..11	4,1
		2	180°	12..13	4,9
		2	270°	14..15	5,7
	PAN	3	0°	16..17	6,5
		3	90°	18..19	7,3
		3	180°	20..21	8,0
		3	270°	22..23	8,8
	PAN	4	0°	24..25	9,6
		4	90°	26..27	10,4
		4	180°	28..29	11,2
		4	270°	30..31	12
	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
14) Speed Pan/Tilt	This channel is only for the SPEED of the movements not for Pan/Tilt		0..255	00..FF	0..100
15) Zoom	Zoom 0% - 100%	10° - 26°	0..255	0..FF	0..100

¹⁾ The predefined colors can be used as start-colors for the Rainbow effect. Please select first a desired start-color before you activate the rainbow effect. All **VOLKSICHTS Zoom** will afterwards start from that color and will execute the rainbow effect synchronously. Different **VOLKSLICHT Zooms** can certainly have different start-colors but will still execute the rainbow effect synchronously. If you choose a color different from the once 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).

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⁾ The continuous color temperature correction applies only to white i.e. if this function is activated (DMX ≥ 001) the **VOLKSLICHT Zoom** changes to white and can than be controlled in a range of 3200K - 7200K. A color temperature correction for other colors is therefore not foreseen.

