



DMX TRAITS

JOY 150

Version 1.0

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Channel selection (Overview table)

Channel	Description	DMX	Hex	Value in %
1) PAN – High	0..180°	0..255	00..FF	0..100
2) PAN – Low	High-Pos .. High-Pos + 0,7°	0..255	00..FF	0..100
3) TILT – High	0..150°	0..255	00..FF	0..100
4) TILT – Low	High-Pos .. High-Pos + 0,59°	0..255	00..FF	0..100
5) Color	Open	0..3	00..03	0..1
	Open / Color 1	4..7	04..07	2..3
	Color 1	8..11	08..0B	3..4
	Color 1 / Color 2	12..15	0C..0F	4..5
	Color 2	16..19	10..13	5..7
	Color 2 / Color 3	20..23	14..17	8..9
	Color 3	24..27	18..1B	9..10
	Color 3 / Color 4	28..31	1C..1F	10..11
	Color 4	32..35	20..23	12..13
	Color 4 / Color 5	36..39	24..27	14..15
	Color 5	40..43	28..2B	16..17
	Color 5 / Color 6	44..47	2C..2F	17..18
	Color 6	48..51	30..33	19..20
	Color 6 / Color 7	52..55	34..37	20..21
	Color 7	56..59	38..3B	21..22
	Color 7 / open	60..127	3C..7F	23..49
	Rot. Color, slow – fast CW	128..191	80..BF	50..75
	Rot. Color fast – slow CCW	192..253	C0..FD	76..98
	Audio Color-change slow	254	FE	99
	Audio Color-change fast	255	FF	100
6) Gobo	Gobo 1 big spot	0..15	00..0F	0..6
	Gobo 2	16..31	10..1F	7..12
	Gobo 3	32..47	20..2F	13..18
	Gobo 4	48..63	30..3F	19..24
	Gobo 5	64..79	40..4F	25..31
	Gobo 6	80..96	50..5F	32..37
	Gobo 7	96..127	60..7F	38..50
	Rot. Gobo, slow - fast CW	128..191	80..BF	51..75
	Rot. Gobo, fast – slow CCW	192..253	C0..FD	76..98

Channel	Description	DMX	Hex	Value in %
	Audio Gobo-change slow	254	FE	99
	Audio Gobo-change fast	255	FF	100
7) Shutter	Shutter closed	0..15	00..0F	0..6
	Shutterfrequency slow – fast	16..239	10..EF	7..93
	Shutter open	240..255	F0..FF	94..100
8) Gobo	Gobo position 0..700°	0..127	00..7F	0..50
Rotation	Gobo rotation slow - fast CW	128..191	80..BF	51..75
	Gobo rotation fast – slow CCW	192..253	C0..FD	76..100
	Audio Gobo Rotation slow	254	FE	99
	Audio Gobo Rotation fast	255	FF	100
9) Special	No function	0..15	00..0F	0..6
	Gobo-wipe +/- 10° slow - fast	16..31	10..1F	7..12
	Gobo-wipe +/- 20° slow - fast	32..47	20..2F	13..18
	Gobo-wipe +/- 30° slow - fast	48..63	30..3F	19..24
	Color Chaser C / C+1 slow - fast	64..79	40..4F	25..31
	Color Chaser C / C+2 slow - fast	80..95	50..5F	32..37
	Audio Pan / Tilt slow	96..111	60..6F	38..43
	Audio Pan / Tilt fast	112..127	70..7F	44..50
	Engage Program – Mode \approx **	192..207	C0..CF	75..81
	Engage Program-Receive-Mode \approx **	208..223	D0..DF	82..87
	Engage Program-Send-Mode \approx **	224..239	E0..EF	88..93
	No Function	240..249	F0..F9	94..97
	Reset	250..255	FA..FF	98..100
10) Speed	Pan/Tilt relative	0..15	00..0F	0..6
	Pan/Tilt slow – fast	16..255	10..FF	7..100
11* Save Step	X \approx 255 \approx 0, X \approx FF \approx 0 save programstep in the Scanner	X \approx 255 \approx 0	X \approx FF \approx 0	X \approx 100 \approx 0
	Call saved programsteps	00..15	00..15	0..6
	Set DMX-Values	16..254	10..FE	7..99
12* Next Time	Audio – min. Time 0,4 sec	0..04	0..04	0..2
	Next Time in 1/10 sec	5..199	05..C7	3..78
	Audio – min. Time 1 sec	200..209	C8..D1	79..82
	Audio – min. Time 2 sec	210..219	D2..CB	83..85
	Audio – min. Time 3 sec	220..229	DC..E5	86..89
	Audio – min. Time 5 sec	230..239	E6..EF	90..93

Channel	Description	DMX	Hex	Value in %
	Audio – min. Time 10 sec	240..255	F0..FF	94..100
13* Step No.	Programstep No. 1	0..7	00..07	0..2
	Programstep No. 2	8..15	08..0F	3..5
	Programstep No. 3	16..23	10..17	6..9
	Programstep No. 25	224..239	F0..F7	87..93
	Engage Lern – Mode with channel 11 and channel 12, 0 ≤ 255 ≤ 0	240..255	F8..FF	94..100
Lamp ON	Shutter open	240..255	F0..FF	94..100
Lamp OFF	Shutter close and	0..15	00..0F	0..6
	Special channel 9 and	0..10	0..0A	0..4
	Speed channel 10	X ≤ 255 ≤ 0	X ≤ FF ≤ 0	X ≤ 100 ≤ 0

* These channels are only activated in the Program – Mode

** You can activate the Program – Mode either with an DMX controller or direct at the display of the **JOY-150**.

At the scanner choose the function “P” with the Menu key. Than select the Program – Mode with the Cursor key.

If you use a DMX controller choose one of the Program – Modes with the *Special* Channel (No.09). Than engage channel *Step No.* (No.13) to DMX 255. To save this mode engage channel *Save Step* (No.11) from 0 ≤ 255 ≤ 0.

If the Send- or Receive– Mode is engaged the channels 11, 12 and 13 are activated.

