

CLUSTER

B4 FC

4-Lite Audience Blinder

1CH DWE	40CH EXTENDED RGB
2CH DWE	57CH EXTENDED RGB
4-1CH DWE	20CH DIRECT
4-2CH DWE	12CH DIRECT
9CH DWE+	29CH DIRECT
8CH STROBE	48CH DIRECT
12CH RGB	73CH DIRECT
10CH BASIC RGB	
14CH BASIC RGB	
21CH STANDARD RGB (default)	
38CH STANDARD RGB	

CH	1CH DWE (Calibrated)	2CH DWE (Calibrated)	4-1CH DWE (Calibrated)	4-2CH DWE (Calibrated)	9CH DWE+ (Calibrated)	8CH STROBE (Calibrated)
1	Dimmer	Dimmer 1	Dimmer 1	Dimmer	Master Dimmer	Master Dimmer
2		Dimmer 2	Dimmer 2	Dimmer Curve	Shutter	Shutter
3			Dimmer 3	Dimmer Response	Red	Duration
4			Dimmer 4	Redshift	Green	Dimmer 1
5					Blue	Dimmer 2
6					CTC	Dimmer 3
7					Dimmer Curve	Dimmer 4
8					Dimmer Response	CCT
9					Redshift	

CH	12CH RGB (Calibrated)	10CH BASIC RGB (Calibrated)	14CH BASIC RGB (Calibrated)	21CH STANDARD RGB (Calibrated / default)
1	Red 1	Master Dimmer	Master Dimmer	Master Dimmer
2	Green 1	Shutter	Master Dimmer Fine	Shutter
3	Blue 1	Red	Shutter	Dimmer 1
4	Red 2	Green	Red	Red 1
5	Green 2	Blue	Red Fine	Green 1
6	Blue 2	CTC	Green	Blue 1
7	Red 3	Tint	Green Fine	Dimmer 2
8	Green 3	Color Macro	Blue	Red 2
9	Blue 3	Color Macro Crossfade	Blue Fine	Green 2
10	Red 4	Device Settings	CTC	Blue 2
11	Green 4		Tint	Dimmer 3
12	Blue 4		Color Macro	Red 3
13			Color Macro Crossfade	Green 3
14			Device Settings	Blue 3
15				Dimmer 4
16				Red 4
17				Green 4
18				Blue 4
19				CTC (all)
20				Tint (all)
21				Device Settings

CH	38 CH STANDARD RGB (Calibrated)	40CH EXTENDED RGB (Calibrated)	57CH EXTENDED RGB (Calibrated)
1	Master Dimmer	Master Dimmer	Master Dimmer
2	Master Dimmer Fine	Shutter	Master Dimmer Fine
3	Shutter	Duration	Shutter
4	Dimmer 1	Dimmer 1	Duration
5	Dimmer 1 Fine	Red 1	Dimmer 1
6	Red 1	Green 1	Dimmer 1 Fine
7	Red 1 Fine	Blue 1	Red 1
8	Green 1	CTC 1	Red 1 Fine
9	Green 1 Fine	Tint 1	Green 1
10	Blue 1	Color Macro 1	Green 1 Fine
11	Blue 1 Fine	Color Macro Crossfade 1	Blue 1
12	Dimmer 2	Dimmer 2	Blue 1 Fine
13	Dimmer 2 Fine	Red 2	CTC 1
14	Red 2	Green 2	Tint 1
15	Red 2 Fine	Blue 2	Color Macro 1
16	Green 2	CTC 2	Color Macro Crossfade 1
17	Green 2 Fine	Tint 2	Dimmer 2
18	Blue 2	Color Macro 2	Dimmer 2 Fine
19	Blue 2 Fine	Color Macro Crossfade 2	Red 2
20	Dimmer 3	Dimmer 3	Red 2 Fine
21	Dimmer 3 Fine	Red 3	Green 2
22	Red 3	Green 3	Green 2 Fine
23	Red 3 Fine	Blue 3	Blue 2
24	Green 3	CTC 3	Blue 2 Fine
25	Green 3 Fine	Tint 3	CTC 2
26	Blue 3	Color Macro 3	Tint 2
27	Blue 3 Fine	Color Macro Crossfade 3	Color Macro 2
28	Dimmer 4	Dimmer 4	Color Macro Crossfade 2
29	Dimmer 4 Fine	Red 4	Dimmer 3
30	Red 4	Green 4	Dimmer 3 Fine
31	Red 4 Fine	Blue 4	Red 3
32	Green 4	CTC 4	Red 3 Fine
33	Green 4 Fine	Tint 4	Green 3
34	Blue 4	Color Macro 4	Green 3 Fine
35	Blue 4 Fine	Color Macro Crossfade 4	Blue 3
36	CTC (all)	Effect	Blue 3 Fine
37	Tint (all)	Dimmer Curve	CTC 3
38	Device Settings	Dimmer Response	Tint 3
39		Redshift	Color Macro 3

CH	38CH STANDARD RGB (Calibrated)	40CH EXTENDED RGB (Calibrated)	57CH EXTENDED RGB (Calibrated)
40		Device Settings	Color Macro Crossfade 3
41			Dimmer 4
42			Dimmer 4 Fine
43			Red 4
44			Red 4 Fine
45			Green 4
46			Green 4 Fine
47			Blue 4
48			Blue 4 Fine
49			CTC 4
50			Tint 4
51			Color Macro 4
52			Color Macro Crossfade 4
53			Effect
54			Dimmer Curve
55			Dimmer Response
56			Redshift
57			Device Settings

CH	20CH DIRECT (RAW)	12CH DIRECT (RAW)	29CH DIRECT (RAW)	48CH DIRECT (RAW)	73CH DIRECT (RAW)
1	Red 1	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer
2	Green 1	Shutter	Shutter	Shutter	Master Dimmer Fine
3	Blue 1	Red	Dimmer 1	Duration	Shutter
4	Amber 1	Green	Red 1	Dimmer 1	Duration
5	White 1	Blue	Green 1	Red 1	Dimmer 1
6	Red 2	Amber	Blue 1	Green 1	Dimmer 1 Fine
7	Green 2	White	Amber 1	Blue 1	Red 1
8	Blue 2	CTC	White 1	Amber 1	Red Fine 1
9	Amber 2	Tint	Dimmer 2	White 1	Green 1
10	White 2	Color Macro	Red 2	CTC 1	Green Fine 1
11	Red 3	Color Macro Crossfade	Green 2	Tint 1	Blue 1
12	Green 3	Device Settings	Blue 2	Color Macro 1	Blue Fine 1
13	Blue 3		Amber 2	Color Macro Crossfade 1	Amber 1
14	Amber 3		White 2	Dimmer 2	Amber Fine 1
15	White 3		Dimmer 3	Red 2	White 1
16	Red 4		Red 3	Green 2	White Fine 1
17	Green 4		Green 3	Blue 2	CTC 1
18	Blue 4		Blue 3	Amber 2	Tint 1
19	Amber 4		Amber 3	White 2	Color Macro 1
20	White 4		White 3	CTC 2	Color Macro Crossfade 1
21			Dimmer 4	Tint 2	Dimmer 2
22			Red 4	Color Macro 2	Dimmer 2 Fine
23			Green 4	Color Macro Crossfade 2	Red 2
24			Blue 4	Dimmer 3	Red Fine 2
25			Amber 4	Red 3	Green 2
26			White 4	Green 3	Green Fine 2
27			CTC (all)	Blue 3	Blue 2
28			Tint (all)	Amber 3	Blue Fine 2
29			Device Settings	White 3	Amber 2
30				CTC 3	Amber Fine 2
31				Tint 3	White 2
32				Color Macro 3	White Fine 2
33				Color Macro Crossfade 3	CTC 2
34				Dimmer 4	Tint 2
35				Red 4	Color Macro 2
36				Green 4	Color Macro Crossfade 2
37				Blue 4	Dimmer 3

CH	20CH DIRECT (RAW)	12CH DIRECT (RAW)	29CH DIRECT (RAW)	48CH DIRECT (RAW)	73CH DIRECT (RAW)
38				Amber 4	Dimmer 3 Fine
39				White 4	Red 3
40				CTC 4	Red Fine 3
41				Tint 4	Green 3
42				Color Macro 4	Green Fine 3
43				Color Macro Cross-fade 4	Blue 3
44				Effect	Blue Fine 3
45				Dimmer Curve	Amber 3
46				Dimmer Response	Amber Fine 3
47				Redshift	White 3
48				Device Settings	White Fine 3
49					CTC 3
50					Tint 3
51					Color Macro 3
52					Color Macro Crossfade 3
53					Dimmer 4
54					Dimmer 4 Fine
55					Red 4
56					Red Fine 4
57					Green 4
58					Green Fine 4
59					Blue 4
60					Blue Fine 4
61					Amber 4
62					Amber Fine 4
63					White 4
64					White Fine 4
65					CTC 4
66					Tint 4
67					Color Macro 4
68					Color Macro Crossfade 4
69					Effect
70					Dimmer Curve
71					Dimmer Response
72					Redshift
73					Device Settings

1CH DWE (Calibrated / according to selected Tunable White settings at Stand Alone Mode, default 2900K)

CH	Function	Value	Setting	Remark	Default
1	Dimmer	000-255	0 - 100%		0

2CH DWE (Calibrated / according to selected Tunable White settings at Stand Alone Mode, default 2900K)

CH	Function	Value	Setting	Remark	Default
1	Dimmer 1 (affects eye 1 + 3)	000-255	0 - 100%		0
2	Dimmer 2 (affects eye 2 + 4)	000-255	0 - 100%		0

4-1CH DWE (Calibrated / according to selected Tunable White settings at Stand Alone Mode, default 2900K)

CH	Function	Value	Setting	Remark	Default
1	Dimmer 1	000-255	0 - 100%		0
2	Dimmer 2	000-255	0 - 100%		0
3	Dimmer 3	000-255	0 - 100%		0
4	Dimmer 4	000-255	0 - 100%		0

4-2CH DWE (Calibrated / according to selected Tunable White settings at Stand Alone Mode, default 2900K)

CH	Function	Value	Setting	Remark	Default
1	Dimmer	000-255	0 - 100%		0
2	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings		0
		052-101	Linear Dimmer Curve		
		102-152	Exponential Dimmer Curve		
		153-203	Logarithmic Dimmer Curve		
		204-255	S-Curve Dimmer Curve		
3	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
4	Redshift	000-84	No Function - Current Preset from Menu Settings	Redshift affects only between CCT 2700-3500K	0
		085-170	Redshift Off		
		171-255	Redshift On		

9CH DWE+ (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast @ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast @ slow)		

2	Shutter	085 - 089	Shutter open		20
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast ⊕ slow)		
245 - 255	Shutter open				
3	Red	000-255	0 - 100%		255
4	Green	000-255	0 - 100%		255
5	Blue	000-255	0 - 100%		255
6	CTC (affects RGB)	000 - 004	2900K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
7	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings		0
		052-101	Linear Dimmer Curve		
		102-152	Exponential Dimmer Curve		
		153-203	Logarithmic Dimmer Curve		
		204-255	S-Curve Dimmer Curve		
8	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
9	Redshift	000-84	No Function - Current Preset from Menu Settings	Redshift affects only between CCT 2700-3500K.	0
		085-170	Redshift Off		
		171-255	Redshift On		

8CH STROBE MODE (Calibrated)					
CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast @ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast @ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast @ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast @ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast @ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast @ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast @ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast @ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9:sine wave (fast @ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast @ slow)				
245 - 255	Shutter open				
3	Duration	000-255	0 - 100% (0ms - 510ms)	only affects to channel 2 - Strobe 1 025-064	0
4	Dimmer 1	000-255	0 - 100%		255
5	Dimmer 2	000-255	0 - 100%		255
6	Dimmer 3	000-255	0 - 100%		255
7	Dimmer 4	000-255	0 - 100%		255
8	CCT	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

12CH RGB (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Red 1	000-255	0 - 100%		0
2	Green 1	000-255	0 - 100%		0
3	Blue 1	000-255	0 - 100%		0
4	Red 2	000-255	0 - 100%		0
5	Green 2	000-255	0 - 100%		0
6	Blue 2	000-255	0 - 100%		0
7	Red 3	000-255	0 - 100%		0
8	Green 3	000-255	0 - 100%		0
9	Blue 3	000-255	0 - 100%		0
10	Red 4	000-255	0 - 100%		0
11	Green 4	000-255	0 - 100%		0
12	Blue 4	000-255	0 - 100%		0

10CH BASIC RGB (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
2	Shutter	130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		20
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				

3	Red	000-255	0 - 100%		255
4	Green	000-255	0 - 100%		255
5	Blue	000-255	0 - 100%		255
6	CTC (affects RGB)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
7	Tint (affects CTC and RGB)		Tint (affects CTC and RGB)	no function	0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
8	Color Macro (override RGB/CTC)		Please see ROXX color macro chart		
9	Color Macro Cross-fade (Transition Time between Color Macros)	000 - 005	No function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
10	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-064	No function		
		065-069	Linear Dimmer Curve (hold 1,5s)		
		070-074	Exponential Dimmer Curve (hold 1,5s)		
		075-079	Logarithmic Dimmer Curve (hold 1,5s)		
		080-084	S-Curve Dimmer Curve (hold 1,5s)		
		085-089	No function		
		090-094	LED (Fast) Dimmer Response (hold 1,5s)		
		095-099	Medium Dimmer Response (hold 1,5s)		
		100-104	Halogen (Slow) Dimmer Response (hold 1,5s)		
105-109	No function				

10	Device Settings (please see remark *1)	110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)		0
		115-119	Redshift Off (hold 1,5s)		
		120-124	No function		
		125-129	Full Calibration (Colors & CCT / hold 3s)		
		130-134	CCT Calibration (RAW Colors / hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
		245-255	No function		

14CH BASIC RGB (Calibrated)					
CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Master Dimmer Fine	000-255	0 - 100%		0
3	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
210 - 224	Strobe 9: sine wave (fast ⊕ slow)				
225 - 229	Shutter open				
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				
4	Red	000-255	0 - 100%		255
5	Red Fine	000-255	0 - 100%		255
6	Green	000-255	0 - 100%		255
7	Green Fine	000-255	0 - 100%		255
8	Blue	000-255	0 - 100%		255
9	Blue Fine	000-255	0 - 100%		255
10	CTC (affects RGB)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

11	Tint (affects CTC and RGB)	0	no function	0
		001-127	Magenta -> Neutral	
		128-128	Neutral	
		129-255	Neutral -> Green	
12	Color Macro (override RGB/CTC)		Please see ROXX color macro chart	0
13	Color Macro Cross-fade (Transition Time between Color Macros)	000 - 005	no function	0
		006-105	0,1s - 10s (0,1s steps)	
		106-214	11s - 119s (1s steps)	
		215-244	2m - 4m50s (10s steps)	
		245-255	5m - 15m (1m steps)	
14	Device Settings (please see remark *1)	000-029	No function	0
		030-034	Display Backlight On (hold 3s)	
		035-039	Display Backlight Off (hold 3s)	
		040-044	No function	
		045-049	DMX Fail Blackout (hold 3s)	
		050-054	DMX Fail Hold (hold 3s)	
		055-059	DMX Fail - Emergency Light (hold 3s)	
		060-064	No function	
		065-069	Linear Dimmer Curve (hold 1,5s)	
		070-074	Exponential Dimmer Curve (hold 1,5s)	
		075-079	Logarithmic Dimmer Curve (hold 1,5s)	
		080-084	S-Curve Dimmer Curve (hold 1,5s)	
		085-089	No function	
		090-094	LED (Fast) Dimmer Response (hold 1,5s)	
		095-099	Medium Dimmer Response (hold 1,5s)	
		100-104	Halogen(Slow) Dimmer Response (hold 1,5s)	
		105-109	No function	
		110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)	
		115-119	Redshift Off (hold 1,5s)	
		120-124	No function	
		125-129	Full Calibration (Colors & CCT / hold 3s)	
		130-134	CCT Calibration (RAW Colors / hold 3s)	
		135-139	No function	
		140-144	LED Frequency 800Hz (hold 3s)	
		145-149	LED Frequency 1200Hz (hold 3s)	
		150-154	LED Frequency 2000Hz (hold 3s)	
		155-159	LED Frequency 3600Hz (hold 3s)	
		160-164	LED Frequency 12kHz (hold 3s)	
165-169	LED Frequency 25kHz (hold 3s)			
170-174	No function			

14	Device Settings (please see remark *1)	175-179	Fan Auto (hold 3s)		0
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
245-255	No function				
21CH STANDARD RGB (Calibrated / default)					
CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
205 - 209	Shutter open				

2	Shutter	210 - 224	Strobe 9: sine wave (fast @ slow)	20	
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast @ slow)		
		245 - 255	Shutter open		
3	Dimmer 1	000-255	0 - 100%	255	
4	Red 1	000-255	0 - 100%	255	
5	Green 1	000-255	0 - 100%	255	
6	Blue 1	000-255	0 - 100%	255	
7	Dimmer 2	000-255	0 - 100%	255	
8	Red 2	000-255	0 - 100%	255	
9	Green 2	000-255	0 - 100%	255	
10	Blue 2	000-255	0 - 100%	255	
11	Dimmer 3	000-255	0 - 100%	255	
12	Red 3	000-255	0 - 100%	255	
13	Green 3	000-255	0 - 100%	255	
14	Blue 3	000-255	0 - 100%	255	
15	Dimmer 4	000-255	0 - 100%	255	
16	Red 4	000-255	0 - 100%	255	
17	Green 4	000-255	0 - 100%	255	
18	Blue 4	000-255	0 - 100%	255	
19	CTC (affects RGB 1-4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
20	Tint (affects CTC and RGB 1-4)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
21	Device Settings (please see remark *1)	000-029	No function	0	
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-064	No function		
		065-069	Linear Dimmer Curve (hold 1,5s)		
		070-074	Exponential Dimmer Curve (hold 1,5s)		
		075-079	Logarithmic Dimmer Curve (hold 1,5s)		

21	Device Settings (please see remark *1)	080-084	S-Curve Dimmer Curve (hold 1,5s)		0
		085-089	No function		
		090-094	LED (Fast) Dimmer Response (hold 1,5s)		
		095-099	Medium Dimmer Response (hold 1,5s)		
		100-104	Halogen(Slow) Dimmer Response (hold 1,5s)		
		105-109	No function		
		110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)		
		115-119	Redshift Off (hold 1,5s)		
		120-124	No function		
		125-129	Full Calibration (Colors & CCT / hold 3s)		
		130-134	CCT Calibration (RAW Colors / hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
245-255	No function				

38CH STANDARD RGB (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Master Dimmer Fine	000-255	0 - 100%		0
3	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast @ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast @ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast @ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast @ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast @ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast @ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast @ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast @ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast @ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast @ slow)				
245 - 255	Shutter open				
4	Dimmer 1	000-255	0 - 100%		255
5	Dimmer 1 Fine	000-255	0 - 100%		255
6	Red 1	000-255	0 - 100%		255
7	Red Fine 1	000-255	0 - 100%		255
8	Green 1	000-255	0 - 100%		255
9	Green Fine 1	000-255	0 - 100%		255
10	Blue 1	000-255	0 - 100%		255
11	Blue Fine 1	000-255	0 - 100%		255
12	Dimmer 2	000-255	0 - 100%		255
13	Dimmer 2 Fine	000-255	0 - 100%		255
14	Red 2	000-255	0 - 100%		255
15	Red Fine 2	000-255	0 - 100%		255
16	Green 2	000-255	0 - 100%		255

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17	Green Fine 2	000-255	0 - 100%		255
18	Blue 2	000-255	0 - 100%		255
19	Blue Fine 2	000-255	0 - 100%		255
20	Dimmer 3	000-255	0 - 100%		255
21	Dimmer 3 Fine	000-255	0 - 100%		255
22	Red 3	000-255	0 - 100%		255
23	Red Fine 3	000-255	0 - 100%		255
24	Green 3	000-255	0 - 100%		255
25	Green Fine 3	000-255	0 - 100%		255
26	Blue 3	000-255	0 - 100%		255
27	Blue Fine 3	000-255	0 - 100%		255
28	Dimmer 4	000-255	0 - 100%		255
29	Dimmer 4 Fine	000-255	0 - 100%		255
30	Red 4	000-255	0 - 100%		255
31	Red Fine 4	000-255	0 - 100%		255
32	Green 4	000-255	0 - 100%		255
33	Green Fine 4	000-255	0 - 100%		255
34	Blue 4	000-255	0 - 100%		255
35	Blue Fine 4	000-255	0 - 100%		255
36	CTC (affects RGB 1-4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
37	Tint (affects CTC and RGB 1-4)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
38	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-064	No function		
		065-069	Linear Dimmer Curve (hold 1,5s)		
		070-074	Exponential Dimmer Curve (hold 1,5s)		
075-079	Logarithmic Dimmer Curve (hold 1,5s)				

38	Device Settings (please see remark *1)	080-084	S-Curve Dimmer Curve (hold 1,5s)		0
		085-089	No function		
		090-094	LED (Fast) Dimmer Response (hold 1,5s)		
		095-099	Medium Dimmer Response (hold 1,5s)		
		100-104	Halogen (Slow) Dimmer Response (hold 1,5s)		
		105-109	No function		
		110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)		
		115-119	Redshift Off (hold 1,5s)		
		120-124	No function		
		125-129	Full Calibration (Colors & CCT / hold 3s)		
		130-134	CCT Calibration (RAW Colors / hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
245-255	No function				

40CH EXTENDED RGB (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
2	Shutter	085 - 089	Shutter open		20
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				
3	Duration	000-255	0 - 100% (0ms - 510ms)	only affects to channel 2 - Strobe 1 025-064	0
4	Dimmer 1	000-255	0 - 100%		255
5	Red 1	000-255	0 - 100%		255
6	Green 1	000-255	0 - 100%		255
7	Blue 1	000-255	0 - 100%		255
8	CTC 1 (affects RGB 1)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

9	Tint 1 (affects CTC 1 and RGB 1)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
10	Color Macro 1 (override RGB 1/ CTC 1)		Please see ROXX color macro chart		0
11	Color Macro Cross-fade 1 (Transition Time between Color Macros 1)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
12	Dimmer 2	000-255	0 - 100%		255
13	Red 2	000-255	0 - 100%		255
14	Green 2	000-255	0 - 100%		255
15	Blue 2	000-255	0 - 100%		255
16	CTC 2 (affects RGB 2)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
17	Tint 2 (affects CTC 2 and RGB 2)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
18	Color Macro 2 (override RGB 2 / CTC 2)		Please see ROXX color macro chart		
19	Color Macro Cross-fade 2 (Transition Time between Color Macros 2)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
20	Dimmer 3	000-255	0 - 100%		255
21	Red 3	000-255	0 - 100%		255
22	Green 3	000-255	0 - 100%		255
23	Blue 3	000-255	0 - 100%		255
24	CTC 3 (affects RGB 3)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

25	Tint 3 (affects CTC 3 and RGB 3)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
26	Color Macro 3 (override RGB 3/ CTC 3)		Please see ROXX color macro chart		0
27	Color Macro Cross-fade 3 (Transition Time between Color Macros 3)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
28	Dimmer 4	000-255	0 - 100%		255
29	Red 4	000-255	0 - 100%		255
30	Green 4	000-255	0 - 100%		255
31	Blue 4	000-255	0 - 100%		255
32	CTC 4 (affects RGB 4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
33	Tint 4 (affects CTC 4 and RGB 4)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
34	Color Macro 4 (override RGB 4 / CTC 4)		Please see ROXX color macro chart		0
35	Color Macro Cross-fade 4 (Transition Time between Color Macros 4)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
36	Effect override RGB 1-4 / CTC 1-4, Color Macro 1-4	016-039	Effect 1 (slow to fast)		0
		040-063	Effect 2 (slow to fast)		
		064-87	Effect 3 (slow to fast)		
		88-111	Effect 4 (slow to fast)		
		112-135	Effect 5 (slow to fast)		
		136-159	Effect 6 (slow to fast)		
		160-183	Effect 7 (slow to fast)		
		184-207	Effect 8 (slow to fast)		
		208-231	Effect 9 (slow to fast)		
		232-255	Effect 10 (slow to fast)		

37	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings		0
		052-101	Linear Dimmer Curve		
		102-152	Exponential Dimmer Curve		
		153-203	Logarithmic Dimmer Curve		
		204-255	S-Curve Dimmer Curve		
38	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
39	Redshift	000-84	No Function - Current Preset from Menu Settings	Redshift affects only between CCT 2700-3500K.	0
		085-170	Redshift Off		
		171-255	Redshift On		
40	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-124	No function		
		125-129	Full Calibration (Colors & CCT / hold 3s)		
		130-134	CCT Calibration (RAW Colors / hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
185-189	Fan Off (hold 3s)				
190-194	Fan High Power (hold 3s)				
195-199	No function				

40	Device Settings (please see remark *1)	200-204	Invert Mapping Off (hold 3s)		0
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
		245-255	No function		

57CH EXTENDED RGB (Calibrated)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Master Dimmer Fine	000-255	0 - 100%		0
3	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				

DMX CHART

4	Duration	000-255	0 - 100% (0ms - 510ms)	only affects to channel 2 - Strobe 1 025-064	0
5	Dimmer 1	000-255	0 - 100%		255
6	Dimmer 1 Fine	000-255	0 - 100%		255
7	Red 1	000-255	0 - 100%		255
8	Red Fine 1	000-255	0 - 100%		255
9	Green 1	000-255	0 - 100%		255
10	Green Fine 1	000-255	0 - 100%		255
11	Blue 1	000-255	0 - 100%		255
12	Blue Fine 1	000-255	0 - 100%		255
13	CTC 1 (affects RGB 1)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
14	Tint 1 (affects CTC 1 and RGB 1)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
15	Color Macro 1 (override RGB 1/ CTC 1)		Please see ROXX color macro chart		0
16	Color Macro Cross-fade 1 (Transition Time between Color Macros 1)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
17	Dimmer 2	000-255	0 - 100%		255
18	Dimmer 2 Fine	000-255	0 - 100%		255
19	Red 2	000-255	0 - 100%		255
20	Red Fine 2	000-255	0 - 100%		255
21	Green 2	000-255	0 - 100%		255
22	Green Fine 2	000-255	0 - 100%		255
23	Blue 2	000-255	0 - 100%		255
24	Blue Fine 2	000-255	0 - 100%		255
25	CTC 2 (affects RGB 2)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

DMX CHART

26	Tint 2 (affects CTC 2 and RGB 2)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
27	Color Macro 2 (override RGB 2 / CTC 2)		Please see ROXX color macro chart	0	
28	Color Macro Cross-fade 2 (Transition Time between Color Macros 2)	000 - 005	no function	0	
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
29	Dimmer 3	000-255	0 - 100%	255	
30	Dimmer 3 Fine	000-255	0 - 100%	255	
31	Red 3	000-255	0 - 100%	255	
32	Red Fine 3	000-255	0 - 100%	255	
33	Green 3	000-255	0 - 100%	255	
34	Green Fine 3	000-255	0 - 100%	255	
35	Blue 3	000-255	0 - 100%	255	
36	Blue Fine 3	000-255	0 - 100%	255	
37	CTC 3 (affects RGB 3)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
38	Tint 3 (affects CTC 3 and RGB 3)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
39	Color Macro 3 (override RGB 3/ CTC 3)		Please see ROXX color macro chart	0	
40	Color Macro Cross-fade 3 (Transition Time between Color Macros 3)	000 - 005	no function	0	
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
41	Dimmer 4	000-255	0 - 100%	255	
42	Dimmer 4 Fine	000-255	0 - 100%	255	
43	Red 4	000-255	0 - 100%	255	
44	Red Fine 4	000-255	0 - 100%	255	
45	Green 4	000-255	0 - 100%	255	
46	Green Fine 4	000-255	0 - 100%	255	

47	Blue 4	000-255	0 - 100%		255
48	Blue Fine 4	000-255	0 - 100%		255
49	CTC 4 (affects RGB 4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
50	Tint 4 (affects CTC 4 and RGB 4)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
51	Color Macro 4 (override RGB 4 / CTC 4)		Please see ROXX color macro chart		0
52	Color Macro Cross- fade 4 (Transition Time between Color Macros 4)	000 - 005	no function		0
52	Color Macro Cross- fade 4 (Transition Time between Color Macros 4)	006-105	0,1s - 10s (0,1s steps)		0
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
53	Effect override RGB 1-4 / CTC 1-4, Color Macro 1-4	000-15	No Function		0
		016-039	Effect 1 (slow to fast)		
		040-063	Effect 2 (slow to fast)		
		064-87	Effect 3 (slow to fast)		
		88-111	Effect 4 (slow to fast)		
		112-135	Effect 5 (slow to fast)		
		136-159	Effect 6 (slow to fast)		
		160-183	Effect 7 (slow to fast)		
		184-207	Effect 8 (slow to fast)		
		208-231	Effect 9 (slow to fast)		
232-255	Effect 10 (slow to fast)				
54	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings		0
		052-101	Linear Dimmer Curve		
		102-152	Exponential Dimmer Curve		
		153-203	Logarithmic Dimmer Curve		
		204-255	S-Curve Dimmer Curve		
55	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		

56	Redshift	000-84	No Function - Current Preset from Menu Settings	Redshift affects only between CCT 2700-3500K.	0
		085-170	Redshift Off		
		171-255	Redshift On		
57	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-124	No function		
		125-129	Full Calibration (Colors & CCT / hold 3s)		
		130-134	CCT Calibration (RAW Colors / hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self-test by DMX	
245-255	No function				

20CH DIRECT (RAW)

CH	Function	Value	Setting	Remark	Default
1	Red 1	000-255	0 - 100%		0
2	Green 1	000-255	0 - 100%		0
3	Blue 1	000-255	0 - 100%		0
4	Amber 1	000-255	0 - 100%		0
5	White 1	000-255	0 - 100%		0
6	Red 2	000-255	0 - 100%		0
7	Green 2	000-255	0 - 100%		0
8	Blue 2	000-255	0 - 100%		0
9	Amber 2	000-255	0 - 100%		0
10	White 2	000-255	0 - 100%		0
11	Red 3	000-255	0 - 100%		0
12	Green 3	000-255	0 - 100%		0
13	Blue 3	000-255	0 - 100%		0
14	Amber 3	000-255	0 - 100%		0
15	White 3	000-255	0 - 100%		0
16	Red 4	000-255	0 - 100%		0
17	Green 4	000-255	0 - 100%		0
18	Blue 4	000-255	0 - 100%		0
19	Amber 4	000-255	0 - 100%		0
20	White 4	000-255	0 - 100%		0

12CH DIRECT (RAW)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		

2	Shutter	165 - 169	Shutter open	20	
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9:sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast ⊕ slow)		
		245 - 255	Shutter open		
3	Red	000-255	0 - 100%	255	
4	Green	000-255	0 - 100%	255	
5	Blue	000-255	0 - 100%	255	
6	Amber	000-255	0 - 100%	255	
7	White	000-255	0 - 100%	255	
8	CTC (affects RGBAW)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
9	Tint (affects CTC and RGBAW)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
10	Color Macro (override RGBAW/ CTC)		Please see ROXX color macro chart	0	
11	Color Macro Cross- fade (Transition Time between Color Macros)	000 - 005	no function	0	
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
12	Device Settings (please see remark *1)	000-029	No function	0	
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-064	No function		
		065-069	Linear Dimmer Curve (hold 1,5s)		
		070-074	Exponential Dimmer Curve (hold 1,5s)		

12	Device Settings (please see remark *1)	075-079	Logarithmic Dimmer Curve (hold 1,5s)		0
		080-084	S-Curve Dimmer Curve (hold 1,5s)		
		085-089	No function		
		090-094	LED (Fast) Dimmer Response (hold 1,5s)		
		095-099	Medium Dimmer Response (hold 1,5s)		
		100-104	Halogen (Slow) Dimmer Response (hold 1,5s)		
		105-109	No function		
		110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)		
		115-119	Redshift Off (hold 1,5s)		
		120-124	No function		
		125-129	RAW (hold 3s)		
		130-134	User Calibration (hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
245-255	No function				

29CH DIRECT (RAW)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
210 - 224	Strobe 9: sine wave (fast ⊕ slow)				
225 - 229	Shutter open				
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				
3	Dimmer 1	000-255	0 - 100%		255
4	Red 1	000-255	0 - 100%		255
5	Green 1	000-255	0 - 100%		255
6	Blue 1	000-255	0 - 100%		255
7	Amber 1	000-255	0 - 100%		255
8	White 1	000-255	0 - 100%		255
9	Dimmer 2	000-255	0 - 100%		255
10	Red 2	000-255	0 - 100%		255
11	Green 2	000-255	0 - 100%		255
12	Blue 2	000-255	0 - 100%		255
13	Amber 2	000-255	0 - 100%		255
14	White 2	000-255	0 - 100%		255
15	Dimmer 3	000-255	0 - 100%		255
16	Red 3	000-255	0 - 100%		255
17	Green 3	000-255	0 - 100%		255
18	Blue 3	000-255	0 - 100%		255

19	Amber 3	000-255	0 - 100%		255
20	White 3	000-255	0 - 100%		255
21	Dimmer 4	000-255	0 - 100%		255
22	Red 4	000-255	0 - 100%		255
23	Green 4	000-255	0 - 100%		255
24	Blue 4	000-255	0 - 100%		255
25	Amber 4	000-255	0 - 100%		255
26	White 4	000-255	0 - 100%		255
27	CTC (affects RGBAW 1-4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
28	Tint (affects CTC and RGBAW 1-4)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
29	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-064	No function		
		065-069	Linear Dimmer Curve (hold 1,5s)		
		070-074	Exponential Dimmer Curve (hold 1,5s)		
		075-079	Logarithmic Dimmer Curve (hold 1,5s)		
		080-084	S-Curve Dimmer Curve (hold 1,5s)		
		085-089	No function		
		090-094	LED (Fast) Dimmer Response (hold 1,5s)		
		095-099	Medium Dimmer Response (hold 1,5s)		
		100-104	Halogen(Slow) Dimmer Response (hold 1,5s)		
105-109	No function				
110-114	Redshift On (hold 1,5s / affects only between 2700-3500K)				

29	Device Settings (please see remark *1)	115-119	Redshift Off (hold 1,5s)		0
		120-124	No function		
		125-129	RAW (hold 3s)		
		130-134	User Calibration (hold 3s)		
		135-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
		245-255	No function		

48CH DIRECT (RAW)					
CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
2	Shutter	025 - 064	Strobe 1 (fast ⊕ slow)		20
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		
		145 - 149	Shutter open		
		150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast ⊕ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast ⊕ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9: sine wave (fast ⊕ slow)		
		225 - 229	Shutter open		
230 - 244	Strobe 10: burst (fast ⊕ slow)				
245 - 255	Shutter open				
3	Duration	000-255	0 - 100% (0ms - 510ms)	only affects to channel 2 - Strobe 1 025-064	0
4	Dimmer 1	000-255	0 - 100%		255
5	Red 1	000-255	0 - 100%		255
6	Green 1	000-255	0 - 100%		255
7	Blue 1	000-255	0 - 100%		255
8	Amber 1	000-255	0 - 100%		255
9	White 1	000-255	0 - 100%		255
10	CTC 1 (affects RGB 1)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

11	Tint 1 (affects CTC 1 and RGB 1)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
12	Color Macro 1 (override RGB 1/ CTC 1)		Please see ROXX color macro chart	0	
13	Color Macro Cross-fade 1 (Transition Time between Color Macros 1)	000 - 005	no function	0	
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
14	Dimmer 2	000-255	0 - 100%	255	
15	Red 2	000-255	0 - 100%	255	
16	Green 2	000-255	0 - 100%	255	
17	Blue 2	000-255	0 - 100%	255	
18	Amber 2	000-255	0 - 100%	255	
19	White 2	000-255	0 - 100%	255	
20	CTC 2 (affects RGB 2)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
21	Tint 2 (affects CTC 2 and RGB 2)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
22	Color Macro 2 (override RGB 2 / CTC 2)		Please see ROXX color macro chart	0	
23	Color Macro Cross-fade 2 (Transition Time between Color Macros 2)	000 - 005	no function	0	
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
24	Dimmer 3	000-255	0 - 100%	255	
25	Red 3	000-255	0 - 100%	255	
26	Green 3	000-255	0 - 100%	255	
27	Blue 3	000-255	0 - 100%	255	
28	Amber 3	000-255	0 - 100%	255	
29	White 3	000-255	0 - 100%	255	

30	CTC 3 (affects RGB 3)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
31	Tint 3 (affects CTC 3 and RGB 3)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
32	Color Macro 3 (override RGB 3/ CTC 3)		Please see ROXX color macro chart		0
33	Color Macro Cross- fade 3 (Transition Time between Color Macros 3)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
34	Dimmer 4	000-255	0 - 100%		255
35	Red 4	000-255	0 - 100%		255
36	Green 4	000-255	0 - 100%		255
37	Blue 4	000-255	0 - 100%		255
38	Amber 4	000-255	0 - 100%		255
39	White 4	000-255	0 - 100%		255
40	CTC 4 (affects RGB 4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
41	Tint 4 (affects CTC 4 and RGB 4)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
42	Color Macro 4 (override RGB 4 / CTC 4)		Please see ROXX color macro chart		0
43	Color Macro Cross- fade 4 (Transition Time between Color Macros 4)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		

44	Effect override RGBAW 1-4 / CTC 1-4, Color Macro 1-4	000-15	No Function		0
		016-039	Effect 1 (slow to fast)		
		040-063	Effect 2 (slow to fast)		
		064-87	Effect 3 (slow to fast)		
		88-111	Effect 4 (slow to fast)		
		112-135	Effect 5 (slow to fast)		
		136-159	Effect 6 (slow to fast)		
		160-183	Effect 7 (slow to fast)		
44	Effect override RGBAW 1-4 / CTC 1-4, Color Macro 1-4	184-207	Effect 8 (slow to fast)		0
		208-231	Effect 9 (slow to fast)		
		232-255	Effect 10 (slow to fast)		
45	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings		0
		052-101	Linear Dimmer Curve		
		102-152	Exponential Dimmer Curve		
		153-203	Logarithmic Dimmer Curve		
		204-255	S-Curve Dimmer Curve		
46	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
47	Redshift	000-84	No Function - Current Preset from Menu Settings	Redshift affects only between CCT 2700-3500K.	0
		085-170	Redshift Off		
		171-255	Redshift On		
48	Device Settings (please see remark *1)	000-029	No function		0
		030-034	Display Backlight On (hold 3s)		
		035-039	Display Backlight Off (hold 3s)		
		040-044	No function		
		045-049	DMX Fail Blackout (hold 3s)		
		050-054	DMX Fail Hold (hold 3s)		
		055-059	DMX Fail - Emergency Light (hold 3s)		
		060-122	No function		
		123-127	RAW (hold 3s)		
		128-132	User Calibration (hold 3s)		
		133-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		

48	Device Settings (please see remark *1)	155-159	LED Frequency 3600Hz (hold 3s)		0
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
		235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
245-255	No function				

73CH DIRECT (RAW)

CH	Function	Value	Setting	Remark	Default
1	Master Dimmer	000-255	0 - 100%		0
2	Master Dimmer Fine	000-255	0 - 100%		0
3	Shutter	000 - 019	Shutter close		20
		020 - 024	Shutter open		
		025 - 064	Strobe 1 (fast ⊕ slow)		
		065 - 069	Shutter open		
		070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
		110 - 124	Strobe 4: random strobe (fast ⊕ slow)		
		125 - 129	Shutter open		
		130 - 144	Strobe 5: random opening pulse (fast ⊕ slow)		

3	Shutter	145 - 149	Shutter open		20
		150 - 164	Strobe 6:random closing pulse (fast @ slow)		
		165 - 169	Shutter open		
		170 - 184	Strobe 7: burst pulse (fast @ slow)		
		185 - 189	Shutter open		
		190 - 204	Strobe 8: random burst pulse (fast @ slow)		
		205 - 209	Shutter open		
		210 - 224	Strobe 9:sine wave (fast @ slow)		
		225 - 229	Shutter open		
		230 - 244	Strobe 10: burst (fast @ slow)		
245 - 255	Shutter open				
4	Duration	000-255	0 - 100% (0ms - 510ms)	only affects to channel 2 - Strobe 1 025-064	0
5	Dimmer 1	000-255	0 - 100%		255
6	Dimmer 1 Fine	000-255	0 - 100%		255
7	Red 1	000-255	0 - 100%		255
8	Red Fine 1	000-255	0 - 100%		255
9	Green 1	000-255	0 - 100%		255
10	Green Fine 1	000-255	0 - 100%		255
11	Blue 1	000-255	0 - 100%		255
12	Blue Fine 1	000-255	0 - 100%		255
13	Amber 1	000-255	0 - 100%		255
14	Amber Fine 1	000-255	0 - 100%		255
15	White 1	000-255	0 - 100%		255
16	White Fine 1	000-255	0 - 100%		255
17	CTC 1 (affects RGB 1)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
18	Tint 1 (affects CTC 1 and RGB 1)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
19	Color Macro 1 (override RGB 1/ CTC 1)		please use color macros from ROXX color macro chart		0

20	Color Macro Cross-fade 1 (Transition Time between Color Macros 1)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
21	Dimmer 2	000-255	0 - 100%		255
22	Dimmer 2 Fine	000-255	0 - 100%		255
23	Red 2	000-255	0 - 100%		255
24	Red Fine 2	000-255	0 - 100%		255
25	Green 2	000-255	0 - 100%		255
26	Green Fine 2	000-255	0 - 100%		255
27	Blue 2	000-255	0 - 100%		255
28	Blue Fine 2	000-255	0 - 100%		255
29	Amber 2	000-255	0 - 100%		255
30	Amber Fine 2	000-255	0 - 100%		255
31	White 2	000-255	0 - 100%		255
32	White Fine 2	000-255	0 - 100%		255
33	CTC 2 (affects RGB 2)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
34	Tint 2 (affects CTC 2 and w 2)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
35	Color Macro 2 (override RGB 2 / CTC 2)		Please see ROXX color macro chart		0
36	Color Macro Cross-fade 2 (Transition Time between Color Macros 2)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
		245-255	5m - 15m (1m steps)		
37	Dimmer 3	000-255	0 - 100%		255
38	Dimmer 3 Fine	000-255	0 - 100%		255
39	Red 3	000-255	0 - 100%		255
40	Red Fine 3	000-255	0 - 100%		255
41	Green 3	000-255	0 - 100%		255
42	Green Fine 3	000-255	0 - 100%		255

43	Blue 3	000-255	0 - 100%		255
44	Blue Fine 3	000-255	0 - 100%		255
45	Amber 3	000-255	0 - 100%		255
46	Amber Fine 3	000-255	0 - 100%		255
47	White 3	000-255	0 - 100%		255
48	White Fine 3	000-255	0 - 100%		255
49	CTC 3 (affects RGB 3)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
50	Tint 3 (affects CTC 3 and RGB 3)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
51	Color Macro 3 (override RGB 3/ CTC 3)		Please see ROXX color macro chart		0
52	Color Macro Cross- fade 3 (Transition Time between Color Macros 3)	000 - 005	no function		0
		006-105	0,1s - 10s (0,1s steps)		
		106-214	11s - 119s (1s steps)		
		215-244	2m - 4m50s (10s steps)		
245-255	5m - 15m (1m steps)				
53	Dimmer 4	000-255	0 - 100%		255
54	Dimmer 4 Fine	000-255	0 - 100%		255
55	Red 4	000-255	0 - 100%		255
56	Red Fine 4	000-255	0 - 100%		255
57	Green 4	000-255	0 - 100%		255
58	Green Fine 4	000-255	0 - 100%		255
59	Blue 4	000-255	0 - 100%		255
60	Blue Fine 4	000-255	0 - 100%		255
61	Amber 4	000-255	0 - 100%		255
62	Amber Fine 4	000-255	0 - 100%		255
63	White 4	000-255	0 - 100%		255
64	White Fine 4	000-255	0 - 100%		255
65	CTC 4 (affects RGB 4)	000 - 004	5600K	according to CTC chart	0
		005-226	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-182	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

66	Tint 4 (affects CTC 4 and RGB 4)	0	no function	0
		001-127	Magenta -> Neutral	
		128-128	Neutral	
		129-255	Neutral -> Green	
67	Color Macro 4 (override RGB 4 / CTC 4)		Please see ROXX color macro chart	0
68	Color Macro Cross-fade 4 (Transition Time between Color Macros 4)	000 - 005	no function	0
		006-105	0,1s - 10s (0,1s steps)	
		106-214	11s - 119s (1s steps)	
		215-244	2m - 4m50s (10s steps)	
		245-255	5m - 15m (1m steps)	
69	Effect override RGBAW 1-4 / CTC 1-4, Color Macro 1-4	000-15	No Function	0
		016-039	Effect 1 (slow to fast)	
		040-063	Effect 2 (slow to fast)	
		064-87	Effect 3 (slow to fast)	
		88-111	Effect 4 (slow to fast)	
		112-135	Effect 5 (slow to fast)	
		136-159	Effect 6 (slow to fast)	
		160-183	Effect 7 (slow to fast)	
		184-207	Effect 8 (slow to fast)	
		208-231	Effect 9 (slow to fast)	
		232-255	Effect 10 (slow to fast)	
70	Dimmer Curve	000-51	No Function - Current Preset from Menu Settings	0
		052-101	Linear Dimmer Curve	
		102-152	Exponential Dimmer Curve	
		153-203	Logarithmic Dimmer Curve	
		204-255	S-Curve Dimmer Curve	
71	Dimmer Response	000-063	No Function - Current Preset from Menu Settings	0
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
72	Redshift	000-84	No Function - Current Preset from Menu Settings	0
		085-170	Redshift Off	
		171-255	Redshift On	
73	Device Settings (please see remark *1)	000-029	No function	0
		030-034	Display Backlight On (hold 3s)	
		035-039	Display Backlight Off (hold 3s)	
		040-044	No function	
		045-049	DMX Fail Blackout (hold 3s)	
		050-054	DMX Fail Hold (hold 3s)	

73	Device Settings (please see remark *1)	055-059	DMX Fail - Emergency Light (hold 3s)		0
		060-122	No function		
		123-127	RAW (hold 3s)		
		128-132	User Calibration (hold 3s)		
		133-139	No function		
		140-144	LED Frequency 800Hz (hold 3s)		
		145-149	LED Frequency 1200Hz (hold 3s)		
		150-154	LED Frequency 2000Hz (hold 3s)		
		155-159	LED Frequency 3600Hz (hold 3s)		
		160-164	LED Frequency 12kHz (hold 3s)		
		165-169	LED Frequency 25kHz (hold 3s)		
		170-174	No function		
		175-179	Fan Auto (hold 3s)		
		180-184	Fan Silent (hold 3s)		
		185-189	Fan Off (hold 3s)		
		190-194	Fan High Power (hold 3s)		
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping CW (hold 3s)		
		210-214	Invert Mapping CCW (hold 3s)		
		215-219	No function		
		220-224	LED Mode - Illumination (hold 1,5s)		
		225-229	LED Mode - Boost (hold 1,5s)		
		230-234	No function		
235-239	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250			
240-244	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
245-255	No function				
remark *1	After adjustments please set the value back to 000 to avoid any disturbance by endless function call.				

