

## CLUSTER

## B2 FC

2-Lite Audience Blinder

1CH DWE	24CH EXTENDED RGB
2CH DWE	33CH EXTENDED RGB
4CH DWE	10CH DIRECT
9CH DWE+	12CH DIRECT
6CH STROBE	17CH DIRECT
6CH RGB	24CH DIRECT
10CH BASIC RGB	41CH DIRECT
14CH BASIC RGB	
11CH SECTION RGB	
13CH STANDARD RGB (default)	
22 CH STANDARD RGB	

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

CH	6CH RGB (Calibrated)	10CH BASIC RGB (Calibrated)	14CH BASIC RGB (Calibrated)	11CH SECTION RGB (Calibrated)	13CH STANDARD RGB (Calibrated / default)
1	Red 1	Master Dimmer	Master Dimmer	Dimmer 1	Master Dimmer
2	Green 1	Shutter	Master Dimmer Fine	Red 1	Shutter
3	Blue 1	Red	Shutter	Green 1	Dimmer 1
4	Red 2	Green	Red	Blue 1	Red 1
5	Green 2	Blue	Red Fine	CTC 1 (affects RGB 1)	Green 1
6	Blue 2	CTC	Green	Dimmer 2	Blue 1
7		Tint	Green Fine	Red 2	Dimmer 2
8		Color Macro	Blue	Green 2	Red 2
9		Color Macro Crossfade	Blue Fine	Blue 2	Green 2
10		Device Settings	CTC	CTC 2 (affects RGB 2)	Blue 2
11			Tint	Device Settings	CTC (all)
12			Color Marco		Tint (all)
13			Color Macro Crossface		Device Settings
14			Device Settings		

CH	22CH STANDARD RGB (Calibrated)	24CH EXTENDED RGB (Calibrated)	33CH 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	CTC (all)	Effect	Red 2 Fine
21	Tint (all)	Dimmer Curve	Green 2
22	Device Settings	Dimmer Response	Green 2 Fine
23		Redshift	Blue 2
24		Device Settings	Blue 2 Fine
25			CTC 2
26			Tint 2
27			Color Macro 2
28			Color Macro Crossfade 2
29			Effect
30			Dimmer Curve
31			Dimmer Response
32			Redshift
33			Device Settings

CH	10CH DIRECT (RAW)	12CH DIRECT (RAW)	17CH DIRECT (RAW)	28CH DIRECT (RAW)	41CH 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 1 Fine
9	Amber 2	Tint	Dimmer 2	White 1	Green 1
10	White 2	Color Macro	Red 2	CTC 1	Green 1 Fine
11		Color Macro Crossfade	Green 2	Tint 1	Blue 1
12		Device Settings	Blue 2	Color Macro 1	Blue 1 Fine
13			Amber 2	Color Macro Crossfade 1	Amber 1
14			White 2	Dimmer 2	Amber 1 Fine
15			CTC (all)	Red 2	White 1
16			Tint (all)	Green 2	White 1 Fine
17			Device Settings	Blue 2	CTC 1
18				Amber 2	Tint 1
19				White 2	Color Macro 1
20				CTC 2	Color Macro Crossfade 1
21				Tint 2	Dimmer 2
22				Color Macro 2	Dimmer 2 Fine
23				Color Macro Crossfade 2	Red 2
24				Effect	Red 2 Fine
25				Dimmer Curve	Green 2
26				Dimmer Response	Green 2 Fine
27				Redshift	Blue 2
28				Device Settings	Blue 2 Fine
29					Amber 2
30					Amber 2 Fine
31					White 2
32					White 2 Fine
33					CTC 2
34					Tint 2
35					Color Macro 2
36					Color Macro Crossfade 2
37					Effect
38					Dimmer Curve
39					Dimmer Response
40					Redshift
41					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	000-255	0 - 100%		0
2	Dimmer 2	000-255	0 - 100%		0

**4CH 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)		
		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		

2	Shutter	150 - 164	Strobe 6: random closing pulse (fast ⊕ slow)	20	
		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		

## 6CH 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	CCT	000 - 004	5600K	according to CTC chart	0
		005-182	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)		

**6CH 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

**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		
		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	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		
		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)				

10	Device Settings (please see remark *1)	135-139	No function		0
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
240-255	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		
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)				

14	Device Settings (please see remark *1)	195-199	No function		0
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
		240-255	No function		

### 11CH SECTION RGB (Calibrated )

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

11	Device Settings (please see remark *1)	055-059	DMX Fail - Emergency Light (hold 3s)		0
		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		
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)		
235-239	User Reset (hold 3s)	no self-test by DMX			
240-255	no function				

**13CH 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		
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		
2	Shutter	230 - 244	Strobe 10: burst (fast ⊕ slow)		20
		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	CTC (affects RGB 1+2)	000 - 004	5600K	according to CTC chart	0
		005-182	2000K-6500K linear in 20-21K steps (please see detailed CTC chart)		
		182-225	5600K		
		226-226	6500K		
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		

12	Tint (affects CTC and RGB 1+2)	0	no function	0
		001-127	Magenta -> Neutral	
		128-128	Neutral	
		129-255	Neutral -> Green	
13	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)			
13	Device Settings (please see remark *1)	120-124	No function	0
		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)			



13	Device Settings (please see remark *1)	190-194	Fan High Power (hold 3s)		0
		195-199	No function		
		200-204	Invert Mapping Off (hold 3s)		
		205-209	Invert Mapping On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
		240-255	No function		

## 22CH 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		
3	Shutter	110 - 124	Strobe 4: random strobe (fast ⊕ slow)		20
		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
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	CTC (affects RGB 1+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 (affects CTC and RGB 1+2)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
22	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)		

22	Device Settings (please see remark *1)	095-099	Medium Dimmer Response (hold 1,5s)		0
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
235-239	User reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 no self-test by DMX			
240-255	No function				

**24CH 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		

2	Shutter	070 - 084	Strobe 2: opening pulse (fast ⊕ slow)		20
		085 - 089	Shutter open		
		090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		
		105 - 109	Shutter open		
2	Shutter	110 - 124	Strobe 4: random strobe (fast ⊕ slow)		20
		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	Effect override RGB 1+2 / CTC 1+2, Color Macro 1+2	000-015	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)				
20	Effect override RGB 1+2 / CTC 1+2, Color Macro 1+2	208-231	Effect 9 (slow to fast)	0	
		232-255	Effect 10 (slow to fast)		

21	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		
22	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
23	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		
24	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 On (hold 3s)		
		210-214	No function		
215-219	LED Mode - Illumination (hold 1,5s)				
220-224	LED Mode - Boost (hold 1,5s)				

24	Device Settings (please see remark *1)	225-229	No function		0
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
		240-255	No function		

**33 CH 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				
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)		
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	Effect override RGB 1+2 / CTC 1+2, Color Macro 1+2	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)				
30	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		
31	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
32	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		

33	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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
		240-255	No function		

**10CH 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

**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		
2	Shutter	110 - 124	Strobe 4: random strobe (fast ⊕ slow)		20
		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	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)		
		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 bet- ween 2700-3500K )				
115-119	Redshift Off (hold 1,5s)				

12	Device Settings (please see remark *1)	120-124	No function		0
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
240-255	No function				

**17CH 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		

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	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	CTC (affects RGBAW 1+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		
15	CTC (affects RGBAW 1+2)	226-226	6500K		0
		227-255	6621K-10.000K linear in 120-121K steps (please see detailed CTC chart)		
16	Tint (affects CTC and RGBAW 1+2)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
17	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)		

17	Device Settings (please see remark *1)	055-059	DMX Fail - Emergency Light (hold 3s)		0
		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 bet- ween 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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
225-229	No function				
230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250			
235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
240-255	No function				

## 28CH 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		
		2	Shutter	170 - 184	
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				
3	Duration	230 - 244	Strobe 10: burst (fast ⊕ slow)		0
		245 - 255	Shutter open		
				only affects to channel 2 - Strobe 1 025-064	
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 RGBAW 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 RGBAW 1)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
12	Color Macro 1 (override RGBAW 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 RGBAW 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 RGBAW 2)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
22	Color Macro 2 (override RGBAW 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	Effect override RGBAW 1+2 / CTC 1+2, Color Macro 1+2	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)		
25	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		
26	Dimmer Response	000-063	No Function - Current Preset from Menu Settings		0
		064-127	LED / fast		
		128-191	Medium		
		192-255	Halogen / slow		
27	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		
28	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 Mode (hold 3s)		
		128-132	User Calibration (hold 3s)		

28	Device Settings (please see remark *1)	133-139	No function		0
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX			
240-255	No function				

**41CH 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 RGBAW 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 RGBAW 1)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
19	Color Macro 1 (override RGBAW 1/ CTC 1)		Please see 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 RGBAW 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 RGBAW 2)	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
35	Color Macro 2 (override RGBAW 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	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)	
37	Effect override RGBAW 1-4 / CTC 1-4, Color Macro 1-4	136-159	Effect 6 (slow to fast)	0
		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)	
38	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	
39	Dimmer Response	000-063	No Function - Current Preset from Menu Settings	0
		064-127	LED / fast	
		128-191	Medium	
		192-255	Halogen / slow	
40	Redshift	000-84	No Function - Current Preset from Menu Settings	0
		085-170	Redshift Off	
		171-255	Redshift On	
			Redshift affects only between CCT 2700-3500K.	
41	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 Mode (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)			

41	Device Settings (please see remark *1)	170-174	No function		0
		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 On (hold 3s)		
		210-214	No function		
		215-219	LED Mode - Illumination (hold 1,5s)		
		220-224	LED Mode - Boost (hold 1,5s)		
		225-229	No function		
		230-234	Factory Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250	
		235-239	User Reset (hold 3s)	Reset only starts if Shutter channel is set to DMX 250 / no self- test by DMX	
240-255	No function				
remark *1	After adjustments please set the value back to 000 to avoid any disturbance by endless function call.				

