

ROXX NEO fx

Creative Pixel Washlight

15CH RGB

81CH Pure Mode

19CH RGB

154CH Pure Mode

26CH RGB / Default Mode

9CH Dual Mode

30CH RGB

10CH Dual Mode

28CH DIRECT

95CH Full Access Mode

33CH DIRECT

168CH Full Access Mode

Channel	15CH RGB	19CH RGB	26CH RGB (default)	30CH RGB	28CH DIRECT	33CH DIRECT
1	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer
2	Shutter	Master Dimmer fine	Shutter	Master Dimmer fine	Shutter	Master Dimmer fine
3	Tilt	Shutter	Duration	Shutter	Duration	Shutter
4	Tilt fine	Tilt	Tilt	Duration	Tilt	Duration
5	Zoom	Tilt fine	Tilt fine	Tilt	Tilt fine	Tilt
6	Smart Filter	Zoom	Zoom	Tilt fine	Zoom	Tilt fine
7	Total Zoom	SmartFilter	Smart Filter	Zoom	Smart Filter	Zoom
8	Red	Total Zoom	Smart Filter Shutter	Smart Filter	Smart Filter Shutter	SmartFilter
9	Green	Red	Total Zoom	Smart Filter Shutter	Total Zoom	Smart Filter Shutter
10	Blue	Red fine	Red	Total Zoom	Red	Total Zoom
11	CTC	Green	Green	Red	Green	Red
12	Tint	Green fine	Blue	Red fine	Blue	Red fine
13	Color Macro	Blue	CTC	Green	Lime	Green
14	Color Macro Crossfade	Blue fine	Tint	Green fine	CTC	Green fine
15	Device Settings	CTC	Color Macro	Blue	Tint	Blue
16		Tint	Color Macro Crossfade	Blue fine	Color Macro	Blue fine
17		Color Macro	Pattern Dimmer	CTC	Color Macro Crossfade	Lime
18		Color Macro Crossfade	Pattern Shutter	Tint	Pattern Dimmer	Lime fine
19		Device Settings	Pattern selection	Color Macro	Pattern Shutter	CTC
20			Pattern selection X-fade	Color Macro Crossfade	Pattern selection	Tint
21			Pattern speed	Pattern Dimmer	Pattern selection X-fade	Color Macro
22			Pattern X-fade	Pattern Shutter	Pattern speed	Color Macro Crossfade
23			Pattern Red	Pattern selection	Pattern X-fade	Pattern Dimmer
24			Pattern Green	Pattern selection X-fade	Pattern Red	Pattern Shutter
25			Pattern Blue	Pattern speed	Pattern Green	Pattern selection
26			Device Settings	Pattern X-fade	Pattern Blue	Pattern selection X-fade

Channel	15CH RGB	19CH RGB	26CH RGB (default)	30CH RGB	28CH DIRECT	33CH DIRECT
27				Pattern Red	Pattern Lime	Pattern speed
28				Pattern Green	Device Settings	Pattern X-fade
29				Pattern Blue		Pattern Red
30				Device Settings		Pattern Green
31						Pattern Blue
32						Pattern Lime
33						Device Settings

Ch.	9CH DUAL MODE	10CH DUAL MODE	Ch.	81CH PURE MODE	Ch.	154CH PURE MODE	Ch.	95CH FULL ACCESS	Ch.	168CH FULL ACCESS
1	Master Dimmer	Master Dimmer	1	Master Dimmer	1	Master Dimmer	1	Master Dimmer	1	Master Dimmer
2	Shutter	Master Dimmer fine	2	Shutter	2	Master Dimmer fine	2	Shutter	2	Master Dimmer fine
3	Duration	Shutter	3	Duration	3	Shutter	3	Duration	3	Shutter
4	Tilt	Duration	4	Tilt	4	Duration	4	Tilt	4	Duration
5	Tilt fine	Tilt	5	Tilt fine	5	Tilt	5	Tilt fine	5	Tilt
6	Zoom	Tilt fine	6	Zoom	6	Tilt fine	6	Zoom	6	Tilt fine
7	SmartFilter	Zoom	7	Smart Filter	7	Zoom	7	Smart Filter	7	Zoom
8	Smart Filter Shutter	SmartFilter	8	Smart Filter Shutter	8	SmartFilter	8	Smart Filter Shutter	8	Smart Filter
9	Device Settings	Smart Filter Shutter	9	Red 1	9	Smart Filter Shutter	9	Total Zoom	9	Smart Filter Shutter
10		Device Settings	10	Green 1	10	Red 1	10	CTC	10	Total Zoom
			11	Blue 1	11	Red 1 fine	11	Tint	11	CTC
			12	Red 2	12	Green 1	12	Color Macro	12	Tint
			13	Green 2	13	Green 1 fine	13	Color Macro Crossfade	13	Color Macro
			14	Blue 2	14	Blue 1	14	Pattern Dimmer	14	Color Macro Crossfade
			15	Red 3	15	Blue 1 fine	15	Pattern Shutter	15	Pattern Dimmer
			16	Green 3	16	Red 2	16	Pattern selection	16	Pattern Shutter
			17	Blue 3	17	Red 2 fine	17	Pattern selection X-fade	17	Pattern selection
			18	Red 4	18	Green 2	18	Pattern speed	18	Pattern selection X-fade
			19	Green 4	19	Green 2 fine	19	Pattern X-fade	19	Pattern speed
			20	Blue 4	20	Blue 2	20	Pattern Red	20	Pattern X-fade
			21	Red 5	21	Blue 2 fine	21	Pattern Green	21	Pattern Red
			22	Green 5	22	Red 3	22	Pattern Blue	22	Pattern Green

			23	Blue 5	23	Red 3 fine	23	Red 1	23	Pattern Blue
			24	Red 6	24	Green 3	24	Green 1	24	Red 1
			25	Green 6	25	Green 3 fine	25	Blue 1	25	Red 1 fine
			26	Blue 6	26	Blue 3	26	Red 2	26	Green 1
			27	Red 7	27	Blue 3 fine	27	Green 2	27	Green 1 fine
			28	Green 7	28	Red 4	28	Blue 2	28	Blue 1
			29	Blue 7	29	Red 4 fine	29	Red 3	29	Blue 1 fine
			30	Red 8	30	Green 4	30	Green 3	30	Red 2
			31	Green 8	31	Green 4 fine	31	Blue 3	31	Red 2 fine
			32	Blue 8	32	Blue 4	32	Red 4	32	Green 2
			...80	...Blue 24	33	Blue 4 fine	33	Green 4	33	Green 2 fine
			81	Device Settings	...153	...Blue 24 fine	34	Blue 4	34	Blue 2
					154	Device Settings	35	Red 5	35	Blue 2 fine
							36	Green 5	36	Red 3
							37	Blue 5	37	Red 3 fine
							38	Red 6	38	Green 3
							39	Green 6	39	Green 3 fine
							40	Blue 6	40	Blue 3
							41	Red 7	41	Blue 3 fine
							42	Green 7	42	Red 4
							43	Blue 7	43	Red 4 fine
							44	Red 8	44	Green 4
							45	Green 8	45	Green 4 fine
							46	Blue 8	46	Blue 4
							...94	...Blue 24	46	Blue 4 fine
							95	Device Settings	...168	...Blue 24 fine
									169	Device Settings

15CH RGB

81CH Pure Mode

19CH RGB

9CH Dual Mode

26CH RGB / Default Mode

10CH Dual Mode

30CH RGB

95CH Full Access Mode

28CH DIRECT

168CH Full Access Mode

33CH DIRECT

15 CH RGB Mode - 8bit

Ch.	Function	Value	Setting	Default
1	Master Dimmer	000-255	0 - 100%	
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	Tilt	000-255	0 - 100% Back - Front	128
4	Tilt fine	000-255	0 - 100% Back - Front	255
5	Zoom	000-255	0 - 100% Narrow - Wide	0
6	Smart Filter	000-255	0 - 100% Clear - Frosted	0
7	Total Zoom (override Zoom + SG Filter)	000-005	no function	0
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)	
8	Red	000-255	0 - 100%	affects main & pattern background color
9	Green	000-255	0 - 100%	
10	Blue	000-255	0 - 100%	

11	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)		
12	Tint (affects CTC and RGB)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
13	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart		0
14	Color Macro Crossfade (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 - 6m50s (10s steps)		
		245-255	7m - 17m (1m steps)		
15	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode		0

19CH RGB Mode - 16bit

Ch.	Function	Value	Setting	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)			

19CH RGB Mode - 16bit

3	Shutter	205 - 209	Shutter open	20
		210 - 224	Strobe 9:sine wave (fast ⊕ slow)	
		225 - 229	Shutter open	
		230 - 244	Strobe 10: burst (fast ⊕ slow)	
		245 - 255	Shutter open	
4	Tilt	000-255	0 - 100% Back - Front	127
5	Tilt fine	000-255	0 - 100% Back - Front	255
6	Zoom	000-255	0 - 100% Narrow - Wide	0
7	SmartFilter	000-255	0 - 100% Clear - Frosted	0
8	Total Zoom (override Zoom + SG Filter)	000-005	no function	0
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)	
9	Red	000-255	0 - 100%	affects main & pattern background color
10	Red fine	000-255	0 - 100%	
11	Green	000-255	0 - 100%	
12	Green fine	000-255	0 - 100%	
13	Blue	000-255	0 - 100%	
14	Blue fine	000-255	0 - 100%	
15	CTC (affects RGB)	000 - 004	5600K	according to CTC chart
		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)	
16	Tint (affects CTC and RGB)	0	no function	0
		001-127	Magenta -> Neutral	
		128-128	Neutral	
		129-255	Neutral -> Green	
17	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	0
18	Color Macro Crossfade (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 - 6m50s (10s steps)	
		245-255	7m - 17m (1m steps)	
19	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

26CH RGB Mode -8bit (Default Mode)

Ch.	Function	Value	Setting	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% (only affects to channel 2 - Strobe 1 - 025-064)	0
4	Tilt	000-255	0 - 100% Back - Front	127
5	Tilt fine	000-255	0 - 100% Back - Front	255
6	Zoom	000-255	0 - 100% Narrow - Wide	0
7	Smart Filter	000-255	0 - 100% Clear - Frosted	0
8	Smart Filter 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)	

26CH RGB Mode -8bit (Default Mode)

8	Smart Filter 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			
9	Total Zoom (override Zoom + SG Filter)	000-005	no function		0	
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)			
10	Red	000-255	0 - 100%		255	
11	Green	000-255	0 - 100%	affects main & pattern background color	255	
12	Blue	000-255	0 - 100%		255	
13	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)			
14	Tint (affects CTC and RGB)	0	no function		0	
		001-127	Magenta -> Neutral			
		128-128	Neutral			
		129-255	Neutral -> Green			
15	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	affects main & pattern background color	0	
16	Color Macro Crossfade (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 - 6m50s (10s steps)			
		245-255	7m - 17m (1m steps)			
17	Pattern Dimmer	000-255			0	
18	Pattern Shutter	000 - 019	Shutter close		0	
		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			

26CH RGB Mode -8bit (Default Mode)

18	Pattern 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	
		19	Pattern selection	
20	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
21	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
22	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
23	Pattern Red	000-255	0 - 100%	255
24	Pattern Green	000-255	0 - 100%	255
25	Pattern Blue	000-255	0 - 100%	255
26	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

30CH RGB Mode - 16bit

Ch.	Function	Value	Setting	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)	

30CH RGB Mode - 16bit

3	Shutter	125 - 129	Shutter open		20
		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%	(only affects to channel 2 - Strobe 1 - 025-064)	0
5	Tilt	000-255	0 - 100% Back - Front		127
6	Tilt fine	000-255	0 - 100% Back - Front		255
7	Zoom	000-255	0 - 100% Narrow - Wide		0
8	Smart Filter	000-255	0 - 100% Clear - Frosted		0
9	Smart Filter 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				

30CH RGB Mode - 16bit

10	Total Zoom (override Zoom + SG Filter)	000-005	no function	0	
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)		
11	Red	000-255	0 - 100%	affects main & pattern background color	255
12	Red fine	000-255	0 - 100%		255
13	Green	000-255	0 - 100%		255
14	Green fine	000-255	0 - 100%		255
15	Blue	000-255	0 - 100%		255
16	Blue fine	000-255	0 - 100%		255
17	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)		
18	Taccording to Pat- tern chart	0	no function	0	
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
19	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	0	
20	Color Macro Crossfade (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 - 6m50s (10s steps)		
		245-255	7m - 17m (1m steps)		
21	Pattern Dimmer	000-255		0	
22	Pattern 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		

30CH RGB Mode - 16bit

22	Pattern Shutter	170 - 184	Strobe 7: burst pulse (fast ⊕ slow)	20
		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	
23	Pattern selection	000-255	according to Pattern chart	0
24	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
25	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
26	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
27	Pattern Red	000-255	0 - 100%	255
28	Pattern Green	000-255	0 - 100%	255
29	Pattern Blue	000-255	0 - 100%	255
30	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

28CH DIRECT Mode - 8bit

Ch.	Function	Value	Setting	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)			

28CH DIRECT Mode - 8bit

2	Shutter	185 - 189	Shutter open		20
		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%	(only affects to channel 2 - Strobe 1 - 025-064)	0
4	Tilt	000-255	0 - 100% Back - Front		128
5	Tilt fine	000-255	0 - 100% Back - Front		255
6	Zoom	000-255	0 - 100% Narrow - Wide		0
7	Smart Filter	000-255	0 - 100% Clear - Frosted		0
8	Smart Filter 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				
9	Total Zoom (override Zoom + SG Filter)	000-005	no function		0
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)		
10	Red	000-255	0 - 100%	affects main & pattern background color	250
11	Green	000-255	0 - 100%		255
12	Blue	000-255	0 - 100%		88
13	Lime	000-255	0 - 100%		255

28CH DIRECT Mode - 8bit

14	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)		
15	Tint (affects CTC and RGB)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
16	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	affects main & pattern background color	0
17	Color Macro Crossfade (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 - 6m50s (10s steps)		
		245-255	7m - 17m (1m steps)		
18	Pattern Dimmer	000-255			0
19	Pattern 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				

28CH DIRECT Mode - 8bit

20	Pattern selection	000-255	according to Pattern chart	0
21	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
22	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
23	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
24	Pattern Red	000-255	0 - 100%	255
25	Pattern Green	000-255	0 - 100%	255
26	Pattern Blue	000-255	0 - 100%	255
27	Pattern Lime	000-255	0 - 100%	255
28	Device Settings (please see remark *1)		According to our Device Settings chart Direct modes	0

33CH DIRECT Mode - 16 bit

Ch.	Function	Value	Setting	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			

33CH DIRECT Mode - 16 bit

3	Shutter	230 - 244	Strobe 10: burst (fast ⊕ slow)		20
		245 - 255	Shutter open		
4	Duration	000-255	0 - 100%	(only affects to channel 2 - Strobe 1 - 025-064)	0
5	Tilt	000-255	0 - 100% Back - Front		127
6	Tilt fine	000-255	0 - 100% Back - Front		255
7	Zoom	000-255	0 - 100% Narrow - Wide		0
8	SmartFilter	000-255	0 - 100% Clear - Frosted		0
9	Smart Filter 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				
10	Total Zoom (override Zoom + SG Filter)	000-005	no function		0
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)		
11	Red	000-255	0 - 100%	affects main & pattern background color	250
12	Red fine	000-255	0 - 100%		255
13	Green	000-255	0 - 100%		255
14	Green fine	000-255	0 - 100%		255
15	Blue	000-255	0 - 100%		88
16	Blue fine	000-255	0 - 100%		255
17	Lime	000-255	0 - 100%		255
18	Lime fine	000-255	0 - 100%		255

33CH DIRECT Mode - 16 bit

19	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)		
20	Tint (affects CTC and RGB)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
21	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	affects main & pattern background color	0
22	Color Macro Crossfade (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 - 6m50s (10s steps)		
		245-255	7m - 17m (1m steps)		
23	Pattern Dimmer	000-255			0
24	Pattern 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				

33CH DIRECT Mode - 16 bit

25	Pattern selection	000-255	according to Pattern chart	0
26	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
27	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
28	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
29	Pattern Red	000-255	0 - 100%	255
30	Pattern Green	000-255	0 - 100%	255
31	Pattern Blue	000-255	0 - 100%	255
32	Pattern Lime	000-255	0 - 100%	255
33	Device Settings (please see remark *1)		According to our Device Settings chart Direct modes	0

81CH Pure Mode - 8bit

Ch.	Function	Value	Setting	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			

81CH Pure Mode - 8bit					
3	Duration	000-255	0 - 100%	(only affects to channel 2 - Strobe 1 - 025-064)	0
4	Tilt	000-255	0 - 100% Back - Front		128
5	Tilt fine	000-255	0 - 100% Back - Front		255
6	Zoom	000-255	0 - 100% Narrow - Wide		0
7	Smart Filter	000-255	0 - 100% Clear - Frosted		0
8	Smart Filter 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				
9	Red 1	000-255	0 - 100%		255
10	Green 1	000-255	0 - 100%		255
11	Blue 1	000-255	0 - 100%		255
12	Red 2	000-255	0 - 100%		255
13	Green 2	000-255	0 - 100%		255
14	Blue 2	000-255	0 - 100%		255
15	Red 3	000-255	0 - 100%		255
16	Green 3	000-255	0 - 100%		255
17	Blue 3	000-255	0 - 100%		255
18	Red 4	000-255	0 - 100%		255
19	Green 4	000-255	0 - 100%		255

20	Blue 4	000-255	0 - 100%	255
21	Red 5	000-255	0 - 100%	255
22	Green 5	000-255	0 - 100%	255
23	Blue 5	000-255	0 - 100%	255
24	Red 6	000-255	0 - 100%	255
25	Green 6	000-255	0 - 100%	255
26	Blue 6	000-255	0 - 100%	255
27	Red 7	000-255	0 - 100%	255
28	Green 7	000-255	0 - 100%	255
29	Blue 7	000-255	0 - 100%	255
30	Red 8	000-255	0 - 100%	255
31	Green 8	000-255	0 - 100%	255
32	Blue 8	000-255	0 - 100%	255
...80	...Blue 24	000-255	0 - 100%	255
81	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

154CH Pure Mode - 16 bit

Ch.	Function	Value	Setting	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			

154CH Pure Mode - 16 bit					
3	Shutter	230 - 244	Strobe 10: burst (fast ⊕ slow)		20
		245 - 255	Shutter open		
4	Duration	000-255	0 - 100%	(only affects to channel 2 - Strobe 1 - 025-064)	0
5	Tilt	000-255	0 - 100% Back - Front		127
6	Tilt fine	000-255	0 - 100% Back - Front		255
7	Zoom	000-255	0 - 100% Narrow - Wide		0
8	Smart Filter	000-255	0 - 100% Clear - Frosted		0
9	Smart Filter 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				
10	Red 1	000-255	0 - 100%		255
11	Red 1 fine	000-255	0 - 100%		255
12	Green 1	000-255	0 - 100%		255
13	Green 1 fine	000-255	0 - 100%		255
14	Blue 1	000-255	0 - 100%		255
15	Blue 1 fine	000-255	0 - 100%		255
16	Red 2	000-255	0 - 100%		255
17	Red 2 fine	000-255	0 - 100%		255
18	Green 2	000-255	0 - 100%		255
19	Green 2 fine	000-255	0 - 100%		255
20	Blue 2	000-255	0 - 100%		255
21	Blue 2 fine	000-255	0 - 100%		255
22	Red 3	000-255	0 - 100%		255

154CH Pure Mode - 16 bit

23	Red 3 fine	000-255	0 - 100%	255
24	Green 3	000-255	0 - 100%	255
25	Green 3 fine	000-255	0 - 100%	255
26	Blue 3	000-255	0 - 100%	255
27	Blue 3 fine	000-255	0 - 100%	255
28	Red 4	000-255	0 - 100%	255
29	Red 4 fine	000-255	0 - 100%	255
30	Green 4	000-255	0 - 100%	255
31	Green 4 fine	000-255	0 - 100%	255
32	Blue 4	000-255	0 - 100%	255
33	Blue 4 fine	000-255	0 - 100%	255
...153	...Blue 24 fine	000-255	0 - 100%	255
154	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

9CH Dual Mode - 8 bit

Ch.	Function	Value	Setting	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			

9CH Dual Mode - 8 bit

3	Duration	000-255	0 - 100%	(only affects to channel 2 - Strobe 1 - 025-064)	0
4	Tilt	000-255	0 - 100% Back - Front		127
5	Tilt fine	000-255	0 - 100% Back - Front		255
6	Zoom	000-255	0 - 100% Narrow - Wide		0
7	SmartFilter	000-255	0 - 100% Clear - Frosted		0
8	Smart Filter 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				
9	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode		0

10CH Dual Mode - 16 bit

Ch.	Function	Value	Setting	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	

10CH Dual Mode - 16 bit

3	Shutter	090 - 104	Strobe 3: closing pulse (fast ⊕ slow)	20
		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%	0
5	Tilt	000-255	0 - 100% Back - Front	127
6	Tilt fine	000-255	0 - 100% Back - Front	255
7	Zoom	000-255	0 - 100% Narrow - Wide	0
8	SmartFilter	000-255	0 - 100% Clear - Frosted	0
9	Smart Filter 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			

10CH Dual Mode - 16 bit					
9	Smart Filter Shutter	230 - 244	Strobe 10: burst (fast ⊕ slow)		20
		245 - 255	Shutter open		
10	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode		0
95CH Full Access Mode - 8 bit					
Ch.	Function	Value	Setting	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%	(only affects to channel 2 - Strobe 1 - 025-064)	0
4	Tilt	000-255	0 - 100% Back - Front		128
6	Tilt fine	000-255	0 - 100% Back - Front		255
6	Zoom	000-255	0 - 100% Narrow - Wide		0
7	Smart Filter	000-255	0 - 100% Clear - Frosted		0
8	Smart Filter 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		

95CH Full Access Mode - 8 bit

8	Smart Filter Shutter	090 - 104	Strobe 3: closing pulse (fast ⊕ slow)		20	
		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					
9	Total Zoom (override Zoom + SG Filter)	000-005	no function		0	
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)			
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 use color macros from ROXX color macro chart	affects main & pattern background color	0	
13	Color Macro Crossfade (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 - 6m50s (10s steps)			
		245-255	7m - 17m (1m steps)			
14	Pattern Dimmer	000-255			0	
15	Pattern 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)			

95CH Full Access Mode - 8 bit

15	Pattern 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			
16	Pattern selection	000-255	according to Pattern chart	0
17	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
18	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
19	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
20	Pattern Red	000-255	0 - 100%	255
21	Pattern Green	000-255	0 - 100%	255
22	Pattern Blue	000-255	0 - 100%	255
23	Red 1	000-255	0 - 100%	255
24	Green 1	000-255	0 - 100%	255
25	Blue 1	000-255	0 - 100%	255
26	Red 2	000-255	0 - 100%	255
27	Green 2	000-255	0 - 100%	255
28	Blue 2	000-255	0 - 100%	255
29	Red 3	000-255	0 - 100%	255
30	Green 3	000-255	0 - 100%	255
31	Blue 3	000-255	0 - 100%	255
32	Red 4	000-255	0 - 100%	255
33	Green 4	000-255	0 - 100%	255
34	Blue 4	000-255	0 - 100%	255

35	Red 5	000-255	0 - 100%	255
36	Green 5	000-255	0 - 100%	255
37	Blue 5	000-255	0 - 100%	255
38	Red 6	000-255	0 - 100%	255
39	Green 6	000-255	0 - 100%	255
40	Blue 6	000-255	0 - 100%	255
41	Red 7	000-255	0 - 100%	255
42	Green 7	000-255	0 - 100%	255
43	Blue 7	000-255	0 - 100%	255
44	Red 8	000-255	0 - 100%	255
45	Green 8	000-255	0 - 100%	255
46	Blue 8	000-255	0 - 100%	255
...94	...Blue 24	000-255	0 - 100%	255
95	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

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Ch.	Function	Value	Setting	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			

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4	Duration	000-255	0 - 100%	(only affects to channel 2 - Strobe 1 - 025-064)	0
5	Tilt	000-255	0 - 100% Back - Front		127
6	Tilt fine	000-255	0 - 100% Back - Front		255
7	Zoom	000-255	0 - 100% Narrow - Wide		0
8	Smart Filter	000-255	0 - 100% Clear - Frosted		0
9	Smart Filter 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				
10	Total Zoom (override Zoom + SG Filter)	000-005	no function		0
		006 - 255	0 - 100% Narrow - Wide (Zoom + Frost)		
11	CTC (affects RGB)	000 - 004	5600K		according to CTC chart
		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)		
12	Tint (affects CTC and RGB)	0	no function		0
		001-127	Magenta -> Neutral		
		128-128	Neutral		
		129-255	Neutral -> Green		
13	Color Macro (override RGB/CTC)		please use color macros from ROXX color macro chart	affects main & pattern background color	0

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14	Color Macro Crossfade (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 - 6m50s (10s steps)	
		245-255	7m - 17m (1m steps)	
15	Pattern Dimmer	000-255	according to Pattern chart	0
16	Pattern 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			
17	Pattern selection	000-255		0
18	Pattern selection X-fade	000 - 005	no function	0
		006-255	1s - 250s (1s steps)	
19	Pattern speed	000-005	No Function	0
		006-124	Left to Right / Fast to slow	
		125-130	No Function	
		131-249	Right to Left / Slow to fast	
		250-255	No Function	
20	Pattern X-fade	000-005	Snap from cell to cell	0
		006-255	Fade Duration short to long	
21	Pattern Red	000-255	0 - 100%	255
22	Pattern Green	000-255	0 - 100%	255
23	Pattern Blue	000-255	0 - 100%	255

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24	Red 1	000-255	0 - 100%	
25	Red 1 fine	000-255	0 - 100%	255
26	Green 1	000-255	0 - 100%	255
27	Green 1 fine	000-255	0 - 100%	255
28	Blue 1	000-255	0 - 100%	255
29	Blue 1 fine	000-255	0 - 100%	255
30	Red 2	000-255	0 - 100%	255
31	Red 2 fine	000-255	0 - 100%	255
32	Green 2	000-255	0 - 100%	255
33	Green 2 fine	000-255	0 - 100%	255
34	Blue 2	000-255	0 - 100%	255
35	Blue 2 fine	000-255	0 - 100%	255
36	Red 3	000-255	0 - 100%	255
37	Red 3 fine	000-255	0 - 100%	255
38	Green 3	000-255	0 - 100%	255
39	Green 3 fine	000-255	0 - 100%	255
40	Blue 3	000-255	0 - 100%	255
41	Blue 3 fine	000-255	0 - 100%	255
42	Red 4	000-255	0 - 100%	255
43	Red 4 fine	000-255	0 - 100%	255
44	Green 4	000-255	0 - 100%	255
45	Green 4 fine	000-255	0 - 100%	255
46	Blue 4	000-255	0 - 100%	255
47	Blue 4 fine	000-255	0 - 100%	255
...168	...Blue 24 fine	000-255	0 - 100%	255
169	Device Settings (please see remark *1)		According to our Device Settings chart RGB mode	0

remark 1: After adjustments please set the value back to 000 to avoid any disturbance by endless function call.

Device Setting RGB Modes

Ch.	Settings	DMX Value	Function	remark
	Device Settings (please see remark *1)	000-005	No function	
		6	Display Backlight On (hold 3s)	
		7	Display Backlight Off (hold 3s)	
		8	Display Lock On (hold 3s)	
		9	Display Lock Off (hold 3s)	
		010-014	reserved / no function	
		15	DMX Fail - Blackout (hold 3s)	
		16	DMX Fail - Hold (hold 3s)	
		17	DMX Fail - Emergency Light (hold 3s)	
		018-022	reserved / no function	
		23	Linear Dimmer Curve (hold 3s)	
		24	Exponential Dimmer Curve (hold 3s)	
		25	Logarithmic Dimmer Curve (hold 3s)	
		26	S-Curve Dimmer Curve (hold 3s)	
		027-031	reserved / no function	
		32	Dimmer Response LED / fast (hold 3s)	
		33	no function	
		34	Dimmer Respononse Halogen / slow (hold 3s)	
		035-039	reserved / no function	
		40	Calibration - High CRI (Colors & CCT / hold 3s)	
		41	Calibration - Normal CRI (Colors & CCT / hold 3s)	
		042-046	reserved / no function	
		47	LED Frequency 800Hz (hold 3s)	
		48	LED Frequency 1200Hz (hold 3s)	
		49	LED Frequency 2000Hz (hold 3s)	
		50	LED Frequency 3600Hz (hold 3s)	
		51	LED Frequency 12kHz (hold 3s)	
		52	LED Frequency 25kHz (hold 3s)	
		053-057	reserved / no function	
		58	Fan Auto 1 (hold 3s)	
		59	Fan Auto 2 (hold 3s)	
		60	Fan Silent (hold 3s)	
	61	Fan Studio (hold 3s)		
	62	Fan Off (hold 3s)		

	63	Fan High Power (hold 3s)	
	064-068	reserved / no function	
	69	Redshift On (hold 3s)	
	70	Redshift Off (hold 3s)	
	071-093	reserved / no function	
	94	Invert Mapping On (hold 3s)	
	95	Invert Mapping Off (hold 3s)	
	96-113	reserved / no function	
	114	Swap Mapping On (hold 3s)	
	115	Swap Mapping Off (hold 3s)	
	116-128	reserved / no function	
	129	LED Modes - Boost (hold 3s)	
	130	LED Modes - Illumination (hold 3s)	
	131-135	reserved / no function	
	136	Tilt Invert On (hold 3s)	
	137	Tilt Invert Off (hold 3s)	
	138-142	reserved / no function	
	143	Tilt Position Auto Correction On (hold 3s)	
	144	Tilt Position Auto Correction Off (hold 3s)	
	145-149	reserved / no function	
	150	Tilt Motor Disable On (hold 3s)	
	151	Tilt Motor Disable Off (hold 3s)	
	152-156	reserved / no function	
	157	Zoom Invert On (hold 3s)	
	158	Zoom Invert Off (hold 3s)	
	159-244	reserved / no function	
	245	Snapshot (hold 3s)	
	246-248	reserved / no function	
	249	User Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
	250	Factory Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
	251 - 255 reserved	No Function	

Device Setting DIRECT Modes

Ch.	Settings	DMX Value	Function	remark
	Device Settings (please see remark *1)	000-005	No function	
		6	Display Backlight On (hold 3s)	
		7	Display Backlight Off (hold 3s)	
		8	Display Lock On (hold 3s)	
		9	Display Lock Off (hold 3s)	
		010-014	reserved / no function	
		15	DMX Fail - Blackout (hold 3s)	
		16	DMX Fail - Hold (hold 3s)	
		17	DMX Fail - Emergency Light (hold 3s)	
		018-022	reserved / no function	
		23	Linear Dimmer Curve (hold 3s)	
		24	Exponential Dimmer Curve (hold 3s)	
		25	Logarithmic Dimmer Curve (hold 3s)	
		26	S-Curve Dimmer Curve (hold 3s)	
		027-031	reserved / no function	
		32	Dimmer Response LED / fast (hold 3s)	
		33	no function	
		34	Dimmer Respononse Halogen / slow (hold 3s)	
		035-039	reserved / no function	
		40	RAW mode (hold 3s)	
		41	User Calibration (hold 3s)	
		042-046	reserved / no function	
		47	LED Frequency 800Hz (hold 3s)	
		48	LED Frequency 1200Hz (hold 3s)	
		49	LED Frequency 2000Hz (hold 3s)	
		50	LED Frequency 3600Hz (hold 3s)	
		51	LED Frequency 12kHz (hold 3s)	
		52	LED Frequency 25kHz (hold 3s)	
		053-057	reserved / no function	
		58	Fan Auto 1 (hold 3s)	
		59	Fan Auto 2 (hold 3s)	
		60	Fan Silent (hold 3s)	
		61	Fan Studio (hold 3s)	
		62	Fan Off (hold 3s)	

Device Setting DIRECT Modes

Ch.	Settings	DMX Value	Function	remark
	Device Settings (please see remark *1)	63	Fan High Power (hold 3s)	
		064-068	reserved / no function	
		69	Redshift On (hold 3s)	
		70	Redshift Off (hold 3s)	
		071-093	reserved / no function	
		94	Invert Mapping On (hold 3s)	
		95	Invert Mapping Off (hold 3s)	
		96-113	reserved / no function	
		114	Swap Mapping On (hold 3s)	
		115	Swap Mapping Off (hold 3s)	
		116-128	reserved / no function	
		129	LED Modes - Boost (hold 3s)	
		130	LED Modes - Illumination (hold 3s)	
		131-135	reserved / no function	
		136	Tilt Invert On (hold 3s)	
		137	Tilt Invert Off (hold 3s)	
		138-142	reserved / no function	
		143	Tilt Position Auto Correction On (hold 3s)	
		144	Tilt Position Auto Correction Off (hold 3s)	
		145-149	reserved / no function	
		150	Tilt Motor Disable On (hold 3s)	
		151	Tilt Motor Disable Off (hold 3s)	
		152-156	reserved / no function	
		157	Zoom Invert On (hold 3s)	
		158	Zoom Invert Off (hold 3s)	
		159-244	reserved / no function	
		245	Snapshot (hold 3s)	
		246-248	reserved / no function	
		249	User Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
		250	Factory Reset (hold 3s)	No Change of DMX Address and Mode! / Reset activates only if Shutter is set to DMX 250
	251 - 255 reserved	No Function		

