

## A.SHOW FC

Single-Source LED –  
Intense colors &  
variable white

3CH CCT

3CH RGB

6CH RGB

9CH RGB / Default Mode

11CH RGB

14CH RGB

4CH DIRECT

8CH DIRECT

11CH DIRECT

16CH DIRECT

3CH HSI

10CH HSI

### 3 CH CCT MODE (Factory Calibrated) - 8bit

Ch.	Function	Value	Setting
1	Dimmer	000-255	0 - 100%
2	CTC	000 - 004	5600K
		005-226	2000K-6500K linear (please see detailed CTC chart)
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K linear (please see detailed CTC chart)
3	Tint (affects CCT)	0	no function
		001-127	Magenta @ Neutral
		128-128	Neutral
		129-255	Neutral @ Green

### 3 CH - RGB MODE (Factory Calibrated) - 8bit

Ch.	Function	Value	Setting
1	Red	000-255	0 - 100%
2	Green	000-255	0 - 100%
3	Blue	000-255	0 - 100%

### 6 CH - RGB MODE (Factory Calibrated) - 16bit

Ch.	Function	Value	Setting
1	Red	000-255	0 - 100%
2	Red Fine	000-255	0 - 100%
3	Green	000-255	0 - 100%
4	Green Fine	000-255	0 - 100%
5	Blue	000-255	0 - 100%
6	Blue Fine	000-255	0 - 100%

**9 CH - RGB (Factory Calibrated Mode) - 8bit / Default Mode**

Ch.	Function	Value	Setting
1	Dimmer	000-255	0 - 100%
2	Shutter	000 - 019	Shutter close
		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%
4	Green	000-255	0 - 100%
5	Blue	000-255	0 - 100%
6	CTC (affects RGB)	000 - 004	5600K
		005-226	2000K-6500K linear <b>(please see detailed CTC chart)</b>
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K linear <b>(please see detailed CTC chart)</b>
7	Tint (affects CTC, RGB)	0	no function
		001-127	Magenta ⊕ Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green
8	Color Macro (override RGB/CTC)		<b>please use color macros from ROXX color macro chart</b>

9	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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)
<b>11 CH RGB Mode (Factory Calibrated) - 8bit</b>			
<b>Ch.</b>	<b>Function</b>	<b>Value</b>	<b>Setting</b>
1	<b>Dimmer</b>	000-255	0 - 100%
2	<b>Shutter</b>	000 - 019	Shutter close
		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	<b>Duration</b> ( only affects to channel 2 - Strobe 1 025-064)	000-255	0 - 100%
4	<b>Red</b>	000-255	0 - 100%
5	<b>Green</b>	000-255	0 - 100%
6	<b>Blue</b>	000-255	0 - 100%
7	<b>CTC</b> (affects RGB)	000 - 004	5600K
		005-226	2000K-6500K linear <b>(please see detailed CTC chart)</b>
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K linear <b>(please see detailed CTC chart)</b>

8	<b>Tint</b> (affects CTC, RGB)	0	no function
		001-127	Magenta ⊕ Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green
9	<b>Color Macro</b> (override RGB/CTC)		<b>please use color macros from ROXX color macro chart</b>
10	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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)
11	<b>Device Settings</b> (please see remark *1)	000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (Hold 1,5s)
		055-059	Dimmer Response Halogen (Hold 1,5s)
		060-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
		150-154	Fan High Power (hold 3s)
155-159	No function		
160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)		
165-169	Redshift Off (Hold 1,5s)		
170-179	No function		
180-184	Factory Reset (hold 3s)		
185-225	No function		
<b>14 CH RGB Mode (Factory Calibrated) - 16bit</b>			
<b>Ch.</b>	<b>Function</b>	<b>Value</b>	<b>Setting</b>
1	<b>Dimmer</b>	000-255	0 - 100%
2	<b>Dimmer Fine</b>	000-255	0 - 100%

3	Shutter	000 - 019	Shutter close
		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%
5	Red Fine	000-255	0 - 100%
6	Green	000-255	0 - 100%
7	Green Fine	000-255	0 - 100%
8	Blue	000-255	0 - 100%
9	Blue Fine	000-255	0 - 100%
10	CTC (affects RGB)	000 - 004	5600K
		005-226	2000K-6500K (please see detailed CTC chart)
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K (please see detailed CTC chart)
11	Tint (affects CTC, RGB)	0	no function
		001-127	Magenta -> Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green
12	Color Macro (override RGB+Fine/CTC)		please use color macros from ROXX color macro chart

13	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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	<b>Device Settings</b> (please see remark *1)	000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (Hold 1,5s)
		055-059	Dimmer Response Halogen (Hold 1,5s)
		060-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
		150-154	Fan High Power (hold 3s)
		155-159	No function
160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)		
165-169	Redshift Off (Hold 1,5s)		
170-179	No function		
180-184	Factory Reset (hold 3s)		
185-225	No function		

**4 CH - DIRECT MODE (RAW) - 8bit**

Ch.	Function	Value	Setting
1	Red	000-255	0 - 100%
2	Green	000-255	0 - 100%
3	Blue	000-255	0 - 100%
4	Lime	000-255	0 - 100%

**8 CH - DIRECT MODE (RAW) - 16bit**

Ch.	Function	Value	Setting
1	Red	000-255	0 - 100%
2	Red Fine	000-255	0 - 100%
3	Green	000-255	0 - 100%
4	Green Fine	000-255	0 - 100%

5	Blue	000-255	0 - 100%
6	Blue Fine	000-255	0 - 100%
7	Lime	000-255	0 - 100%
8	Lime Fine	000-255	0 - 100%
<b>11 CH - DIRECT MODE (RAW) - 8bit</b>			
Ch.	Function	Value	Setting
1	Dimmer	000-255	0 - 100%
2	Shutter	000 - 019	Shutter close
		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%
4	Green	000-255	0 - 100%
5	Blue	000-255	0 - 100%
6	Lime	000-255	0 - 100%
7	CTC (affects RGBL)	000 - 004	5600K
		005-226	2000K-6500K (please see detailed CTC chart)
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K (please see detailed CTC chart)
8	Tint (affects CTC, RGBL)	0	no function
		001-127	Magenta ⊕ Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green

9	<b>Color Macro</b> (override RGBL/CTC)		<b>please use color macros from ROXX color macro chart</b>
10	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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)
11	<b>Device Settings</b> (please see remark *1)	000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (Hold 1,5s)
		055-059	Dimmer Response Halogen (Hold 1,5s)
		060-069	No function
		070-074	RAW Mode (hold 3s)
		075-079	No function
		080-084	Factory Calibrated Mode (hold 3s)
		085-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
135-139	Fan Silent (hold 3s)		
140-144	Fan Studio (hold 3s)		
145-149	Fan Off (hold 3s)		
150-154	Fan High Power (hold 3s)		
155-159	No function		
160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)		
11	<b>Device Settings</b> (please see remark *1)	165-169	Redshift Off (Hold 1,5s)
		170-179	No function
		180-184	Factory Reset (hold 3s)
		185-225	No function
<b>16 CH - DIRECT MODE (RAW) - 16bit</b>			
<b>Ch.</b>	<b>Function</b>	<b>Value</b>	<b>Setting</b>
1	<b>Dimmer</b>	000-255	0 - 100%
2	<b>Dimmer Fine</b>	000-255	0 - 100%



3	Shutter	000 - 019	Shutter close
		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%
5	Red Fine	000-255	0 - 100%
6	Green	000-255	0 - 100%
7	Green Fine	000-255	0 - 100%
8	Blue	000-255	0 - 100%
9	Blue Fine	000-255	0 - 100%
10	Lime	000-255	0 - 100%
11	Lime Fine	000-255	0 - 100%
12	CTC (affects RGBL)	000 - 004	5600K
		005-226	2000K-6500K (please see detailed CTC chart)
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K (please see detailed CTC chart)
13	Tint (affects CTC, RGBL)	0	no function
		001-127	Magenta ⊕ Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green
14	Color Macro (override RGBL, CTC)		please use color macros from ROXX color macro chart

15	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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)
16	<b>Device Settings</b> (please see remark *1)	000-029	No function
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (Hold 1,5s)
		055-059	Dimmer Response Halogen (Hold 1,5s)
		060-069	No function
		070-074	RAW Mode (hold 3s)
		075-079	No function
		080-084	Factory Calibrated Mode (hold 3s)
		085-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
135-139	Fan Silent (hold 3s)		
140-144	Fan Studio (hold 3s)		
145-149	Fan Off (hold 3s)		
150-154	Fan High Power (hold 3s)		
155-159	No function		
16	<b>Device Settings</b> (please see remark *1)	160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)
		165-169	Redshift Off (Hold 1,5s)
		170-179	No function
		180-184	Factory Reset (hold 3s)
		185-225	No function
<b>3 CH - HSI MODE (Factory Calibrated) - 8bit</b>			
<b>Ch.</b>	<b>Function</b>	<b>Value</b>	<b>Setting</b>
1	Dimmer	000-255	0 - 100%
2	Hue	000-255	0° (RED) Thru 360°
3	Saturation	000-255	0 - 100%
<b>10 CH - HSI Mode (Factory Calibrated) - 16bit</b>			
<b>Ch.</b>	<b>Function</b>	<b>Value</b>	<b>Setting</b>
1	Dimmer	000-255	0 - 100%

2	<b>Dimmer Fine</b>	000-255	0 - 100%
3	<b>Shutter</b>	000 - 019	Shutter close
		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	<b>Hue</b>	000-255	0° (RED) Thru 360°
5	<b>Saturation</b>	000-255	0 - 100%
6	<b>CTC</b> (affects HUE and Saturation)	000 - 004	5600K
		005-226	2000K-6500K ( <b>please see detailed CTC chart</b> )
		182-182	5600K
		226-226	6500K
		227-255	6621K-10.000K ( <b>please see detailed CTC chart</b> )
7	<b>Tint</b> (affects CTC, HUE and Saturation).	0	no function
		001-127	Magenta ⊕ Neutral
		128-128	Neutral
		129-255	Neutral ⊕ Green
8	<b>Color Macro</b> (over-ride HUE, Saturation, CTC)		<b>please use color macros from ROXX color macro chart</b>
9	<b>Color Macro Crossfade</b> (Transition Time between Color Macros)	000 - 005	no function
		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
		030-034	Linear Dimmer Curve (hold 3s)
		035-039	Exponential Dimmer Curve (hold 3s)
		040-044	Logarithmic Dimmer Curve (hold 3s)
		045-049	S-Curve Dimmer Curve (hold 3s)
		050-054	Dimmer Response LED (Hold 1,5s)
		055-059	Dimmer Response Halogen (Hold 1,5s)
		060-094	No function
		095-099	LED Frequency 800Hz (hold 3s)
		100-104	LED Frequency 1200Hz (hold 3s)
		105-109	LED Frequency 2000Hz (hold 3s)
		110-114	LED Frequency 3600Hz (hold 3s)
		115-119	LED Frequency 12kHz (hold 3s)
		120-124	LED Frequency 25kHz (hold 3s)
		125-129	No function
		130-134	Fan Auto (hold 3s)
		135-139	Fan Silent (hold 3s)
		140-144	Fan Studio (hold 3s)
		145-149	Fan Off (hold 3s)
150-154	Fan High Power (hold 3s)		
155-159	No function		
10	Device Settings (please see remark *1)	160-164	Redshift On (hold 1,5s / affects only between 2700-3500K)
		165-169	Redshift Off (Hold 1,5s)
		170-179	No function
		180-184	Factory Reset (hold 3s)
		185-225	No function
<b>Remark *1: After the adjustments have been made, set the value to 000 to avoid disturbance by endless function call.</b>			

