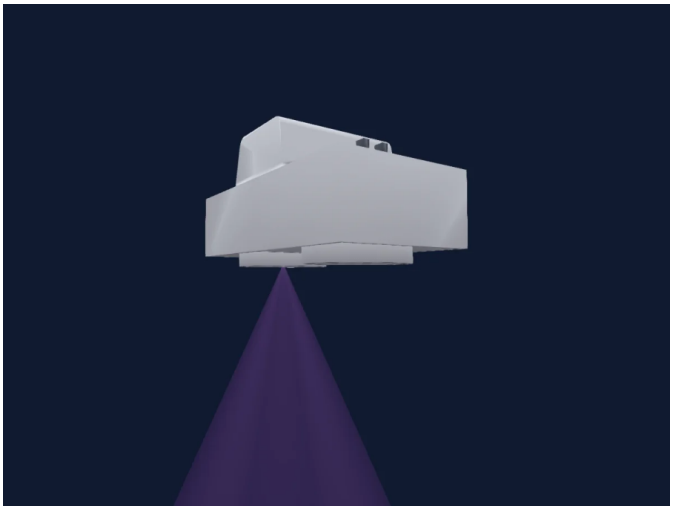
ROXX

CLUSTER B2-FC



Manufacturer	**ROXX**
Type	**Blinder**
DMX modes	**19**
DMX footprint	**1, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 17, 22, 24, 28, 33, 41 channels**
Beam angle	**50°**
Size (W × H × D)	**400 × 191 × 200 mm**
GDTF fixture type	**70F505B3-5FDB-44A0-B610-98…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer

Safety-relevant functions

Fixture reset · Service functions · Built-in effect programmes

DMX modes

1CH DWE	1 ch
2CH DWE	1 ch
6CH RGB	3 ch
4CH DWE	4 ch
10CH Direct	5 ch
6CH Strobe	6 ch
9CH DWE+	9 ch
10CH Basic RGB	10 ch
11CH Comp RGB	11 ch
11CH Section RGB	11 ch
12CH Direct	12 ch
13CH Standard RGB	13 ch
14CH Basic RGB	14 ch
17CH Direct	17 ch
22CH Standard RGB	22 ch
24CH Extended RGB	24 ch
28CH Direct	28 ch
33CH Extended RGB	33 ch
41CH Direct	41 ch

1CH DWE

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	

2CH DWE

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	

6CH RGB

3 channels

Ch	Function	Default	DMX values
1	Red	0	
2	Green	0	
3	Blue	0	

4CH DWE

4 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
3	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow
4	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON

10CH Direct

5 channels

Ch	Function	Default	DMX values
1	Red	0	
2	Green	0	
3	Blue	0	
4	Color Add RY	0	
5	Color Add WW	0	

6CH Strobe

6 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

6CH Strobe (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Strobe Duration	0	0–254 0% 255–255 100%
4	Dimmer	255	
5	Reserved 5	0	
6	C TC	2	

9CH DWE+

9 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

9CH DWE+ (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Red	255	
4	Green	255	
5	Blue	255	
6	C TC	2	
7	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
8	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow
9	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON

10CH Basic RGB

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

10CH Basic RGB (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Red	255	
4	Green	255	
5	Blue	255	
6	C TC	2	
7	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
8	Color Macro1	3	
9	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m

10CH Basic RGB (continued)

Ch	Function	Default	DMX values
10	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

11CH Comp RGB

11 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Red	255	
3	Green	255	
4	Blue	255	
5	Reserved 5	0	
6	Reserved 6	0	
7	Reserved 7	0	
8	Reserved 8	0	

11CH Comp RGB (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
10	C TC	2	

11CH Comp RGB (continued)

Ch	Function	Default	DMX values
11	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

11CH Section RGB

11 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Red	0	
3	Green	0	
4	Blue	0	
5	C TC	2	
6	Reserved 6	0	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	

11CH Section RGB (continued)

Ch	Function	Default	DMX values
11	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

12CH Direct

12 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

12CH Direct (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Red	255	
4	Green	255	
5	Blue	255	
6	Color Add RY	255	
7	Color Add WW	255	
8	C TC	2	
9	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
10	Color Macro1	3	
11	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m

12CH Direct (continued)

Ch	Function	Default	DMX values
12	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

13CH Standard RGB

13 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

13CH Standard RGB (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Dimmer	255	
4	Red	255	
5	Green	255	
6	Blue	255	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	C TC	2	
12	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green

13CH Standard RGB (continued)

Ch	Function	Default	DMX values
13	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

14CH Basic RGB

14 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer

14CH Basic RGB (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
4	Red	255	
5	Red Fine	255	Fine byte of Red
6	Green	255	
7	Green Fine	255	Fine byte of Green
8	Blue	255	
9	Blue Fine	255	Fine byte of Blue
10	C TC	2	
11	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
12	Color Macro1	3	
13	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m

14CH Basic RGB (continued)

Ch	Function	Default	DMX values
14	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

17CH Direct

17 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

17CH Direct (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Dimmer	255	
4	Red	255	
5	Green	255	
6	Blue	255	
7	Color Add RY	255	
8	Color Add WW	255	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	C TC	2	
16	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green

17CH Direct (continued)

Ch	Function	Default	DMX values
17	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

22CH Standard RGB

22 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer

22CH Standard RGB (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
4	Dimmer	255	
5	Dimmer Fine	255	Fine byte of Dimmer
6	Red	255	
7	Red Fine	255	Fine byte of Red
8	Green	255	
9	Green Fine	255	Fine byte of Green
10	Blue	255	
11	Blue Fine	255	Fine byte of Blue
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	C TC	2	
21	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green

22CH Standard RGB (continued)

Ch	Function	Default	DMX values
22	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

24CH Extended RGB

24 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

24CH Extended RGB (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Strobe Duration	0	0–254 0% 255–255 100%
4	Dimmer	255	
5	Red	255	
6	Green	255	
7	Blue	255	
8	C TC	2	
9	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
10	Color Macro1	3	
11	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	

24CH Extended RGB (continued)

Ch	Function	Default	DMX values
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	Effect	0	0–15 No FX 16–38 Slow 39–39 Fast 40–62 Slow 63–63 Fast 64–86 Slow 87–87 Fast 88–110 Slow 111–111 Fast 112–134 Slow 135–135 Fast 136–158 Slow 159–159 Fast 160–182 Slow 183–183 Fast 184–206 Slow 207–207 Fast 208–230 Slow 231–231 Fast 232–254 Slow 255–255 Fast
21	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
22	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow
23	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON

24CH Extended RGB (continued)

Ch	Function	Default	DMX values
24	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

28CH Direct

28 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

28CH Direct (continued)

Ch	Function	Default	DMX values
2	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
3	Strobe Duration	0	0–254 0% 255–255 100%
4	Dimmer	255	
5	Red	255	
6	Green	255	
7	Blue	255	
8	Color Add RY	255	
9	Color Add WW	255	
10	C TC	2	
11	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
12	Color Macro1	3	
13	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m
14	Reserved 14	0	
15	Reserved 15	0	

28CH Direct (continued)

Ch	Function	Default	DMX values
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Effect	0	0–15 No FX 16–38 Slow 39–39 Fast 40–62 Slow 63–63 Fast 64–86 Slow 87–87 Fast 88–110 Slow 111–111 Fast 112–134 Slow 135–135 Fast 136–158 Slow 159–159 Fast 160–182 Slow 183–183 Fast 184–206 Slow 207–207 Fast 208–230 Slow 231–231 Fast 232–254 Slow 255–255 Fast
25	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
26	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow
27	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON

28CH Direct (continued)

Ch	Function	Default	DMX values
28	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

33CH Extended RGB

33 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer

33CH Extended RGB (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
4	Strobe Duration	0	0–254 0% 255–255 100%
5	Dimmer	255	
6	Dimmer Fine	255	Fine byte of Dimmer
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	C TC	2	
14	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
15	Color Macro1	3	
16	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m

33CH Extended RGB (continued)

Ch	Function	Default	DMX values
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Effect	0	0–15 No FX 16–38 Slow 39–39 Fast 40–62 Slow 63–63 Fast 64–86 Slow 87–87 Fast 88–110 Slow 111–111 Fast 112–134 Slow 135–135 Fast 136–158 Slow 159–159 Fast 160–182 Slow 183–183 Fast 184–206 Slow 207–207 Fast 208–230 Slow 231–231 Fast 232–254 Slow 255–255 Fast
30	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
31	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow
32	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON

33CH Extended RGB (continued)

Ch	Function	Default	DMX values
33	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function

41CH Direct

41 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer

41CH Direct (continued)

Ch	Function	Default	DMX values
3	Shutter / Strobe	22	0–19 Shutter Close 20–24 Shutter Open 25–63 Fast Strobe 64–64 Slow Strobe 65–69 Open 70–83 Fast Pulse 84–84 Slow Pulse 85–89 Open 90–103 Fast Pulse 104–104 Slow Pulse 105–109 Open 110–123 Fast Strobe 124–124 Slow Strobe 125–129 Open 130–143 Fast Pulse 144–144 Slow Pulse 145–149 Open 150–163 Fast Pulse 164–164 Slow Pulse 165–169 Open 170–183 Fast Pulse 184–184 Slow Pulse 185–189 Open 190–203 Fast Pulse 204–204 Slow Pulse 205–209 Open 210–223 Fast Sin Wave 224–224 Slow Sin Wave 225–229 Open 230–243 Fast Burst 244–244 Slow Burst 245–255 Open
4	Strobe Duration	0	0–254 0% 255–255 100%
5	Dimmer	255	
6	Dimmer Fine	255	Fine byte of Dimmer
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	255	
14	Color Add RY Fine	255	Fine byte of Color Add RY
15	Color Add WW	255	
16	Color Add WW Fine	255	Fine byte of Color Add WW
17	C TC	2	
18	Tint	128	0–0 No Function 1–127 Magenta->Neutral 128–128 Neutral 129–255 Neutral->Green
19	Color Macro1	3	

41CH Direct (continued)

Ch	Function	Default	DMX values
20	Color Macro XFade	3	0–5 No Function 6–104 1/10s 105–105 10s 106–213 11s 214–214 119s 215–243 2m 244–244 4m50s 245–254 5m 255–255 15m
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Effect	0	0–15 No FX 16–38 Slow 39–39 Fast 40–62 Slow 63–63 Fast 64–86 Slow 87–87 Fast 88–110 Slow 111–111 Fast 112–134 Slow 135–135 Fast 136–158 Slow 159–159 Fast 160–182 Slow 183–183 Fast 184–206 Slow 207–207 Fast 208–230 Slow 231–231 Fast 232–254 Slow 255–255 Fast
38	Dimmer Curve	0	0–51 Default 52–101 Linear Dimmer Curve 102–152 Exponential Dimmer Curve 153–203 Logarithmic Dimmer Curve 204–255 S-Curve Dimmer Curve
39	Dimmer Mode	0	0–63 Default 64–127 LED / fast 128–191 Medium 192–255 Halogen / slow

41CH Direct (continued)

Ch	Function	Default	DMX values
40	Redshift	0	0–84 Default 85–170 Redshift OFF 171–255 Redshift ON
41	Control1	8	0–29 No Function 30–34 Display Backlight On 35–39 Display Backlight Off 40–44 No Function 45–49 DMX Fail Blackout 50–54 DMX Fail Hold 55–59 DMX Fail Emergency Light 60–64 No Function 65–69 Linear Dimmer Curve 70–74 Exponential Dimmer Curve 75–79 Logarithmic Dimmer Curve 80–84 S-Curve Dimmer Curve 85–89 No Function 90–94 Fast Dimmer Response (LED) 95–99 Medium Dimmer Response 100–104 Slow Dimmer Response (Halogen) 105–109 No Function 110–114 Redshift On 115–119 Redshift Off 120–124 No Function 125–129 Full Calibration (Colors / CCT) 130–134 CCT Calibration (RAW Colors) 135–139 No Function 140–144 LED Frequency 800Hz 145–149 LED Frequency 1200Hz 150–154 LED Frequency 2000Hz 155–159 LED Frequency 3600Hz 160–164 LED Frequency 12kHz 165–169 LED Frequency 25kHz 170–174 No Function 175–179 Fan Auto 180–184 Fan Silent 185–189 Fan Off 190–194 Fan High Power 195–199 No Function 200–204 Invert Mapping On 205–209 Invert Mapping Off 210–214 No Function 215–219 LED Mode - Illumination 220–224 LED Mode - Boost 225–229 No Function 230–234 User Reset 235–239 Factory Reset 240–255 No Function