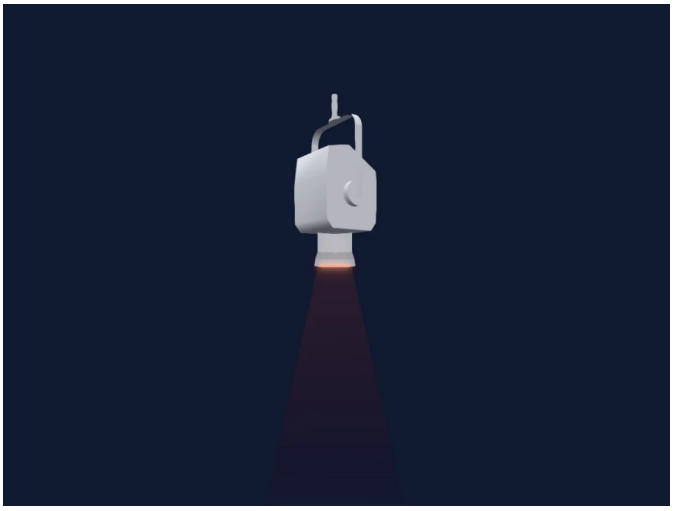
ARRI

Orbiter



Manufacturer	**ARRI**
Type	**Effect light**
DMX modes	**34**
DMX footprint	**7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 23, 24, 26, 34, 42, 50,**
Beam angle	**25-30°**
Size (W × H × D)	**356 × 794 × 278 mm**
GDTF fixture type	**70C79926-9513-430F-A71C-526…**

Controls

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

Safety-relevant functions

Built-in effect programmes

DMX modes

Mode 2 - CCT 8Bit	7 ch
Mode 5- HSI 8Bit	7 ch
Mode 4 - RGBW 8Bit	9 ch
Mode 10 - HSI 16Bit	10 ch
Mode 20 - Source Match 8Bit	10 ch
Mode 3 - CCT+HSI 8Bit	10 ch
Mode 32 - CCT+XY 8Bit	10 ch
Mode 7 - CCT 16Bit	10 ch
Mode 18 - XY 8Bit	11 ch
Mode 1 - CCT+RGBW 8Bit	12 ch
Mode 21 - Source Match 16Bit	12 ch
Mode 22 - Effects 8Bit	13 ch
Mode 38 - CCT+XY+FX+Gel 8Bit	13 ch
Mode 26 - Zone HSI 8Bit	14 ch
Mode 28 - Zone XY 8Bit	14 ch
Mode 9 - RGBW 16Bit	14 ch
Mode 36 - CCT+RGBW+FX+Gel 8Bit	15 ch
Mode 33 - CCT+XY 16Bit	16 ch
Mode 8 - CCT+HSI 16Bit	16 ch
Mode 16 - Gels 8Bit	17 ch
Mode 19 - XY 16Bit	17 ch
Mode 17 - Gels 16Bit	19 ch
Mode 39 - CCT+XY+FX+Gel 16Bit	19 ch
Mode 6 - CCT+RGBW 16Bit	20 ch

Mode 23 - Effects 16Bit	21 ch
Mode 37 - CCT+RGBW+FX+Gel 16Bit	23 ch
Mode 30 - Ultimate 8Bit	24 ch
Mode 27 - Zone HSI 16Bit	26 ch
Mode 29 - Zone XY 16Bit	26 ch
Mode 34 - Zone CCT+XY 8Bit	26 ch
Mode 24 - Zone CCT+RGBW 8Bit	34 ch
Mode 31 - Ultimate 16Bit	42 ch
Mode 35 - Zone CCT+XY 16Bit	50 ch
Mode 25 - Zone CCT+RGBW 16Bit	66 ch

Mode 2 - CCT 8Bit

7 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
5	F AVORITE	0	
6	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
7	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 5- HSI 8Bit

7 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
3	H SBSaturation	0	
4	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
5	F AVORITE	0	
6	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
7	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 4 - RGBW 8Bit

9 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Red	255	
3	Green	255	
4	Blue	255	
5	White	255	

Mode 4 - RGBW 8Bit (continued)

Ch	Function	Default	DMX values
6	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
7	F AVORITE	0	
8	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
9	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 10 - HSI 16Bit

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
4	H SBHue Fine	0	Fine byte of H SBHue
5	H SBSaturation	0	
6	H SBSaturation Fine	0	Fine byte of H SBSaturation

Mode 10 - HSI 16Bit (continued)

Ch	Function	Default	DMX values
7	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
8	F AVORITE	0	
9	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
10	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 20 - Source Match 8Bit

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	C ATEGORY	0	0–74 Incand 75–124 Fluor 125–174 Discharge 175–255 Other

Mode 20 - Source Match 8Bit (continued)

Ch	Function	Default	DMX values
3	S OURCE	0	0–2 Tungsten 3–5 Incandescent 6–8 Halogen 9–11 Antique Bulb 12–14 Wm Antique Bulb 15–17 Xmas Lites 18–20 Night Light 21–23 IR Heat Lamp 24–26 Grow Light 27–29 Reserved 30–32 Amber Caution 33–35 Green Traffic Light 36–38 Yellow Traffic Light 39–41 Red Traffic Light 42–44 Blue Glow Stick 45–47 Green Glow Stick 48–50 Red Glow Stick 51–53 Yellow Glow Stick 54–56 Pink Glow Stick 57–59 Violet Glow Stick 60–255 Reserved
4	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
5	Reserved 5	0	
6	Reserved 6	0	
7	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
8	F AVORITE	0	
9	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 20 - Source Match 8Bit (continued)

Ch	Function	Default	DMX values
10	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 3 - CCT+HSI 8Bit

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 White 255–255 Color
5	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
6	H SBSaturation	0	

Mode 3 - CCT+HSI 8Bit (continued)

Ch	Function	Default	DMX values
7	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
8	F AVORITE	0	
9	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
10	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 32 - CCT+XY 8Bit

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000

Mode 32 - CCT+XY 8Bit (continued)

Ch	Function	Default	DMX values
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 Whtie 255–255 Color
5	C IEX	135	
6	C IEY	127	
7	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
8	F AVORITE	0	
9	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
10	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 7 - CCT 16Bit

10 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer

Mode 7 - CCT 16Bit (continued)

Ch	Function	Default	DMX values
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
8	F AVORITE	0	
9	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
10	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 18 - XY 8Bit

11 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	C IEX	135	
3	C IEY	127	
4	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
5	Reserved 5	0	
6	Reserved 6	0	
7	No Feature	0	
8	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
9	F AVORITE	0	
10	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
11	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 1 - CCT+RGBW 8Bit

12 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open

Mode 1 - CCT+RGBW 8Bit (continued)

Ch	Function	Default	DMX values
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 Whtie 255–255 Color
5	Red	255	
6	Green	255	
7	Blue	255	
8	White	255	
9	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
10	F AVORITE	0	
11	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 1 - CCT+RGBW 8Bit (continued)

Ch	Function	Default	DMX values
12	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 21 - Source Match 16Bit

12 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C ATEGORY	0	0–74 Incand 75–124 Fluor 125–174 Discharge 175–255 Other

Mode 21 - Source Match 16Bit (continued)

Ch	Function	Default	DMX values
4	S OURCE	0	0–2 Tungsten 3–5 Incandescent 6–8 Halogen 9–11 Antique Bulb 12–14 Wm Antique Bulb 15–17 Xmas Lites 18–20 Night Light 21–23 IR Heat Lamp 24–26 Grow Light 27–29 Reserved 30–32 Amber Caution 33–35 Green Traffic Light 36–38 Yellow Traffic Light 39–41 Red Traffic Light 42–44 Blue Glow Stick 45–47 Green Glow Stick 48–50 Red Glow Stick 51–53 Yellow Glow Stick 54–56 Pink Glow Stick 57–59 Violet Glow Stick 60–255 Reserved
5	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
6	C OLORXF Fine	0	Fine byte of C OLORXF
7	Reserved 7	0	
8	Reserved 8	0	
9	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
10	F AVORITE	0	
11	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 21 - Source Match 16Bit (continued)

Ch	Function	Default	DMX values
12	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 22 - Effects 8Bit

13 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	Mode	0	0–9 No Effect 10–19 Party 20–29 Candle 30–39 Clouds 40–49 Club Lights 50–59 Color Chase 60–69 Cop Car 70–79 Fire 80–89 Fireworks 90–99 Light Strobe 100–109 Lightning 110–119 Paparazzi 120–129 Pulsing 130–139 Television 140–149 Explosion 150–159 Flour Flicker 160–169 Process 170–179 Welding 180–255 Empty Channel Set

Mode 22 - Effects 8Bit (continued)

Ch	Function	Default	DMX values
3	Color Wheel	0	0–0 CCT Range 1–27 0 to 100% SAT 28–31 Blue/Red 32–55 6 Colors 56–63 Red/Wht 64–83 9 Colors 84–84 Blu/Red/Wht 85–95 1700k > 2000k 96–111 12 Colors 112–127 Blue/Amb 128–139 15 Colors 140–159 Blue/Red/Amb 160–167 18 Colors 168–169 Red/Amber 170–170 2000k > 2300k 171–191 2600 > 3000k 192–195 21 Colors 196–223 Amber 224–254 24 Colors 255–255 Max Offset
4	Color Wheel 2	0	0–0 Loop 60s 1–10 60s > 1s 11–16 2800 17–31 3200 32–34 Double Flash 35–50 4500 51–63 5600 64–95 Quint All Flash 96–112 Quint Flash 113–127 10000 128–159 Default > +2x 160–191 Cycle All 192–254 Reserved 255–255 1s
5	Color3	0	0–0 CCT Range 1–10 0 >> Full Sat 11–16 Full Minus G 17–20 3200 21–34 99% >> 1% Minus G 35–50 4500 51–63 5600 64–112 6500 113–119 10000 120–145 Neutral 146–244 1% >> 99% Plus G 245–254 Full Plus G 255–255 Bump to Sync
6	Color4	0	0–10 Left To Right 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–127 Neutral 128–145 Right To Left 146–244 1% >> 99% Plus G 245–254 Full Plus G 255–255 Color
7	Color5	0	0–254 Hue 0 >>360 255–255 Color
8	Color6	0	0–0 No Sat 1–254 0 >> 100% Sat 255–255 Full Sat

Mode 22 - Effects 8Bit (continued)

Ch	Function	Default	DMX values
9	Color7	0	0–0 No Trigger 1–254 0 >> 100% Sat 255–255 Trigger
10	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
11	F AVORITE	0	
12	No Feature	0	
13	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 38 - CCT+XY+FX+Gel 8Bit

13 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000

Mode 38 - CCT+XY+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 Whtie 255–255 Color
5	C IEX	135	
6	C IEY	127	

Mode 38 - CCT+XY+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
7	Effect	0	0–9 No Effect 10–49 Slow>Fast 50–50 Red 2 51–51 Red 5 52–52 Blue 2 53–53 Blue 5 54–54 Blue+Red 1 55–55 Blue+Red 2 56–56 Blue+Red 5 57–57 Blue+White2 58–58 Blue+Amber 2 59–59 Blue+Red+White 5 60–69 Slow>Fast 70–70 Colors Slow 71–71 Colors Med 72–72 Colors Fast 73–73 Whites Slow 74–74 Whites Med 75–75 Whites Fast 76–76 Col+Whites Slow 77–77 Col+Whites Med 78–78 Col+Whites Fast 79–79 Col+Whites Rapid 80–80 1 fps 81–81 2 fps 82–82 3 fps 83–83 5 fps 84–84 10 fps 85–85 15 fps 86–86 17 fps 87–87 20 fps 88–88 24 fps 89–89 25 fps 90–90 14 Stk/min - 1 Flash 91–91 Rand - 1 Flash 92–92 14 Stk/min - 3 Flash 93–93 Rand - 3 Flash 94–94 6 Stk/min - 6 Flash 95–95 14 Stk/min - 6 Flash 96–96 Rand - 6 Flash 97–97 6 Stk/min - Rand 98–98 14 Stk/Min - Rand 99–99 RandStk/min - Rand 100–100 Bulb 6fpm 101–101 Bulb 15fpm 102–102 Bulb 40fpm 103–103 Bulb 80fpm 104–104 Bulb 120fpm 105–105 Strobe 6fpm 106–106 Strobe 15fpm 107–107 Strobe 40fpm 108–108 Strobe 80fpm 109–109 Strobe 120fpm 110–110 Slow - 4sec 111–111 Fast - 4sec 112–112 Slow - 1sec 113–113 Med - 1sec 114–114 Fast - 1sec 115–115 Rapid - 1sec 116–116 Slow - <sec 117–117 Med - <sec 118–118 Fast -<sec 119–119 Rapid - <sec 120–120 4/min - 2800>4700k

Mode 38 - CCT+XY+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
8	G EL	0	0–127 No Gel 128–128 L200 Double CTB 129–255 L795 Magical Magenta
9	G EL Fine	0	Fine byte of G EL
10	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
11	F AVORITE	0	
12	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
13	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 26 - Zone HSI 8Bit

14 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
3	H SBSaturation	0	
4	Reserved 4	0	
5	Reserved 5	0	
6	Reserved 6	0	

Mode 26 - Zone HSI 8Bit (continued)

Ch	Function	Default	DMX values
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
14	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 28 - Zone XY 8Bit

14 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	C IEX	127	
3	C IEY	127	
4	Reserved 4	0	
5	Reserved 5	0	
6	Reserved 6	0	
7	Reserved 7	0	
8	Reserved 8	0	

Mode 28 - Zone XY 8Bit (continued)

Ch	Function	Default	DMX values
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
14	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 9 - RGBW 16Bit

14 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White

Mode 9 - RGBW 16Bit (continued)

Ch	Function	Default	DMX values
11	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
12	F AVORITE	0	
13	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
14	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 36 - CCT+RGBW+FX+Gel 8Bit

15 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000

Mode 36 - CCT+RGBW+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
3	Tint	128	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 Whtie 255–255 Color
5	Red	255	
6	Green	255	
7	Blue	255	
8	White	255	

Mode 36 - CCT+RGBW+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
9	Effect	0	0–9 No Effect 10–49 Slow>Fast 50–50 Red 2 51–51 Red 5 52–52 Blue 2 53–53 Blue 5 54–54 Blue+Red 1 55–55 Blue+Red 2 56–56 Blue+Red 5 57–57 Blue+White2 58–58 Blue+Amber 2 59–59 Blue+Red+White 5 60–69 Slow>Fast 70–70 Colors Slow 71–71 Colors Med 72–72 Colors Fast 73–73 Whites Slow 74–74 Whites Med 75–75 Whites Fast 76–76 Col+Whites Slow 77–77 Col+Whites Med 78–78 Col+Whites Fast 79–79 Col+Whites Rapid 80–80 1 fps 81–81 2 fps 82–82 3 fps 83–83 5 fps 84–84 10 fps 85–85 15 fps 86–86 17 fps 87–87 20 fps 88–88 24 fps 89–89 25 fps 90–90 14 Stk/min - 1 Flash 91–91 Rand - 1 Flash 92–92 14 Stk/min - 3 Flash 93–93 Rand - 3 Flash 94–94 6 Stk/min - 6 Flash 95–95 14 Stk/min - 6 Flash 96–96 Rand - 6 Flash 97–97 6 Stk/min - Rand 98–98 14 Stk/Min - Rand 99–99 RandStk/min - Rand 100–100 Bulb 6fpm 101–101 Bulb 15fpm 102–102 Bulb 40fpm 103–103 Bulb 80fpm 104–104 Bulb 120fpm 105–105 Strobe 6fpm 106–106 Strobe 15fpm 107–107 Strobe 40fpm 108–108 Strobe 80fpm 109–109 Strobe 120fpm 110–110 Slow - 4sec 111–111 Fast - 4sec 112–112 Slow - 1sec 113–113 Med - 1sec 114–114 Fast - 1sec 115–115 Rapid - 1sec 116–116 Slow - <sec 117–117 Med - <sec 118–118 Fast -<sec 119–119 Rapid - <sec 120–120 4/min - 2800>4700k

Mode 36 - CCT+RGBW+FX+Gel 8Bit (continued)

Ch	Function	Default	DMX values
10	G EL	0	0–127 No Gel 128–128 L200 Double CTB 129–255 L795 Magical Magenta
11	G EL Fine	0	Fine byte of G EL
12	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
13	F AVORITE	0	
14	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
15	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 33 - CCT+XY 16Bit

16 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000

Mode 33 - CCT+XY 16Bit (continued)

Ch	Function	Default	DMX values
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	C IEX	135	
10	C IEX Fine	98	Fine byte of C IEX
11	C IEY	127	
12	C IEY Fine	172	Fine byte of C IEY
13	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
14	F AVORITE	0	
15	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
16	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 8 - CCT+HSI 16Bit

16 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
10	H SBHue Fine	0	Fine byte of H SBHue
11	H SBSaturation	0	
12	H SBSaturation Fine	0	Fine byte of H SBSaturation
13	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
14	F AVORITE	0	
15	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 8 - CCT+HSI 16Bit (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 16 - Gels 8Bit

17 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	C OLORRGBQUALITY	0	0–127 Best 128–254 Brightest 255–255 No Color
4	B RAND	0	0–254 Rosco 255–255 Lee
5	C ATEGORY	0	0–74 Color Correction 75–124 Cal Color 125–174 Storaro 175–254 Roscolux 255–255 Reserved
6	G EL	0	
7	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
8	Reserved 8	0	
9	Reserved 9	0	

Mode 16 - Gels 8Bit (continued)

Ch	Function	Default	DMX values
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	No Feature	0	
14	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
15	F AVORITE	0	
16	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
17	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 19 - XY 16Bit

17 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C IEX	135	
4	C IEX Fine	98	Fine byte of C IEX
5	C IEY	127	
6	C IEY Fine	172	Fine byte of C IEY

Mode 19 - XY 16Bit (continued)

Ch	Function	Default	DMX values
7	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	No Feature	0	
14	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
15	F AVORITE	0	
16	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
17	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 17 - Gels 16Bit

19 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer

Mode 17 - Gels 16Bit (continued)

Ch	Function	Default	DMX values
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C OLORRGBQUALITY	0	0–126 Best 127–254 Brightest 255–255 No Color
5	B RAND	0	0–254 Rosco 255–255 Lee
6	C ATEGORY	0	0–53 Color Correction 54–74 Color Filters 75–104 Cal Color 105–124 600 Series 125–155 Storaro 156–174 Cosmetic 175–206 Roscolux 207–254 700 Series 255–255 Reserved
7	G EL	0	
8	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
9	C OLORXF Fine	0	Fine byte of C OLORXF
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	No Feature	0	
16	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
17	F AVORITE	0	
18	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 17 - Gels 16Bit (continued)

Ch	Function	Default	DMX values
19	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 39 - CCT+XY+FX+Gel 16Bit

19 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	C IEX	135	
10	C IEX Fine	98	Fine byte of C IEX

Mode 39 - CCT+XY+FX+Gel 16Bit (continued)

Ch	Function	Default	DMX values
11	C IEY	127	
12	C IEY Fine	172	Fine byte of C IEY

Mode 39 - CCT+XY+FX+Gel 16Bit (continued)

Ch	Function	Default	DMX values
13	Effect	0	0–9 No Effect 10–49 Slow>Fast 50–50 Red 2 51–51 Red 5 52–52 Blue 2 53–53 Blue 5 54–54 Blue+Red 1 55–55 Blue+Red 2 56–56 Blue+Red 5 57–57 Blue+White2 58–58 Blue+Amber 2 59–59 Blue+Red+White 5 60–69 Slow>Fast 70–70 Colors Slow 71–71 Colors Med 72–72 Colors Fast 73–73 Whites Slow 74–74 Whites Med 75–75 Whites Fast 76–76 Col+Whites Slow 77–77 Col+Whites Med 78–78 Col+Whites Fast 79–79 Col+Whites Rapid 80–80 1 fps 81–81 2 fps 82–82 3 fps 83–83 5 fps 84–84 10 fps 85–85 15 fps 86–86 17 fps 87–87 20 fps 88–88 24 fps 89–89 25 fps 90–90 14 Stk/min - 1 Flash 91–91 Rand - 1 Flash 92–92 14 Stk/min - 3 Flash 93–93 Rand - 3 Flash 94–94 6 Stk/min - 6 Flash 95–95 14 Stk/min - 6 Flash 96–96 Rand - 6 Flash 97–97 6 Stk/min - Rand 98–98 14 Stk/Min - Rand 99–99 RandStk/min - Rand 100–100 Bulb 6fpm 101–101 Bulb 15fpm 102–102 Bulb 40fpm 103–103 Bulb 80fpm 104–104 Bulb 120fpm 105–105 Strobe 6fpm 106–106 Strobe 15fpm 107–107 Strobe 40fpm 108–108 Strobe 80fpm 109–109 Strobe 120fpm 110–110 Slow - 4sec 111–111 Fast - 4sec 112–112 Slow - 1sec 113–113 Med - 1sec 114–114 Fast - 1sec 115–115 Rapid - 1sec 116–116 Slow - <sec 117–117 Med - <sec 118–118 Fast -<sec 119–119 Rapid - <sec 120–120 4/min - 2800>4700k

Mode 39 - CCT+XY+FX+Gel 16Bit (continued)

Ch	Function	Default	DMX values
14	G EL	0	0–127 No Gel 128–128 L200 Double CTB 129–255 L795 Magical Magenta
15	G EL Fine	0	Fine byte of G EL
16	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
17	F AVORITE	0	
18	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
19	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 6 - CCT+RGBW 16Bit

20 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000

Mode 6 - CCT+RGBW 16Bit (continued)

Ch	Function	Default	DMX values
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	White	255	
16	White Fine	255	Fine byte of White
17	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
18	F AVORITE	0	
19	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 6 - CCT+RGBW 16Bit (continued)

Ch	Function	Default	DMX values
20	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 23 - Effects 16Bit

21 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	Dimmer Fine	0	Fine byte of Dimmer
3	Mode	0	0–9 No Effect 10–19 Party 20–29 Candle 30–39 Clouds 40–49 Club Lights 50–59 Color Chase 60–69 Cop Car 70–79 Fire 80–89 Fireworks 90–99 Light Strobe 100–109 Lightning 110–119 Paparazzi 120–129 Pulsing 130–139 Television 140–149 Explosion 150–159 Flour Flicker 160–169 Process 170–179 Welding 180–255 Empty Channel Set

Mode 23 - Effects 16Bit (continued)

Ch	Function	Default	DMX values
4	Color Wheel	0	0–0 CCT Range 1–4 1 > 25/fps 5–26 1 >> 50 27–31 Blue/Red 32–54 6 Colors 55–63 Red/Wht 64–82 9 Colors 83–83 Blu/Red/Wht 84–84 2200 > 2600k 85–95 1700k > 2000k 96–110 12 Colors 111–127 Blue/Amb 128–138 15 Colors 139–159 Blue/Red/Amb 160–166 18 Colors 167–169 Red/Amber 170–170 2000k > 2300k 171–191 6500 >> 10000k 192–194 21 Colors 195–222 Amber 223–223 Red 224–250 24 Colors 251–254 Max Offset 255–255 Fastest
5	Color Wheel Fine	0	Fine byte of Color Wheel
6	Color Wheel 2	0	0–0 Loop 60s 1–10 1 > 120/Min 11–16 2800 17–30 3200 31–34 Double Flash 35–50 4500 51–62 5600 63–63 Quint All Flash 64–94 6500 95–112 Quint Flash 113–127 10000 128–158 Default > +2x 159–190 Cycle All 191–254 Reserved 255–255 1s
7	Color Wheel 2 Fine	0	Fine byte of Color Wheel 2
8	Color3	0	0–10 CCT Range 11–16 2800 17–34 Full Minus G 35–37 4500 38–50 99% >> 1% Minus G 51–63 5600 64–112 6500 113–116 10000 117–155 Neutral 156–234 1% >> 99% Plus G 235–254 Full Plus G 255–255 Bump to Sync
9	Color3 Fine	0	Fine byte of Color3

Mode 23 - Effects 16Bit (continued)

Ch	Function	Default	DMX values
10	Color4	0	0–16 Left To Right 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–127 Neutral 128–155 Right To Left 156–234 1% >> 99% Plus G 235–254 Full Plus G 255–255 Color
11	Color4 Fine	0	Fine byte of Color4
12	Color5	0	0–254 Stb Hue 0 >>360 255–255 Color
13	Color5 Fine	0	Fine byte of Color5
14	Color6	0	0–0 No Sat 1–254 0 >> 100% Sat 255–255 Full Sat
15	Color6 Fine	0	Fine byte of Color6
16	Color7	0	0–254 Bump to Trigger 255–255 Full Sat
17	Color7 Fine	0	Fine byte of Color7
18	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
19	F AVORITE	0	
20	No Feature	0	
21	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 37 - CCT+RGBW+FX+Gel 16Bit

23 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	White	255	
16	White Fine	255	Fine byte of White

Mode 37 - CCT+RGBW+FX+Gel 16Bit (continued)

Ch	Function	Default	DMX values
17	Effect	0	0–9 No Effect 10–49 Slow>Fast 50–50 Red 2 51–51 Red 5 52–52 Blue 2 53–53 Blue 5 54–54 Blue+Red 1 55–55 Blue+Red 2 56–56 Blue+Red 5 57–57 Blue+White2 58–58 Blue+Amber 2 59–59 Blue+Red+White 5 60–69 Slow>Fast 70–70 Colors Slow 71–71 Colors Med 72–72 Colors Fast 73–73 Whites Slow 74–74 Whites Med 75–75 Whites Fast 76–76 Col+Whites Slow 77–77 Col+Whites Med 78–78 Col+Whites Fast 79–79 Col+Whites Rapid 80–80 1 fps 81–81 2 fps 82–82 3 fps 83–83 5 fps 84–84 10 fps 85–85 15 fps 86–86 17 fps 87–87 20 fps 88–88 24 fps 89–89 25 fps 90–90 14 Stk/min - 1 Flash 91–91 Rand - 1 Flash 92–92 14 Stk/min - 3 Flash 93–93 Rand - 3 Flash 94–94 6 Stk/min - 6 Flash 95–95 14 Stk/min - 6 Flash 96–96 Rand - 6 Flash 97–97 6 Stk/min - Rand 98–98 14 Stk/Min - Rand 99–99 RandStk/min - Rand 100–100 Bulb 6fpm 101–101 Bulb 15fpm 102–102 Bulb 40fpm 103–103 Bulb 80fpm 104–104 Bulb 120fpm 105–105 Strobe 6fpm 106–106 Strobe 15fpm 107–107 Strobe 40fpm 108–108 Strobe 80fpm 109–109 Strobe 120fpm 110–110 Slow - 4sec 111–111 Fast - 4sec 112–112 Slow - 1sec 113–113 Med - 1sec 114–114 Fast - 1sec 115–115 Rapid - 1sec 116–116 Slow - <sec 117–117 Med - <sec 118–118 Fast -<sec 119–119 Rapid - <sec 120–120 4/min - 2800>4700k

Mode 37 - CCT+RGBW+FX+Gel 16Bit (continued)

Ch	Function	Default	DMX values
18	G EL	0	0–127 No Gel 128–128 L200 Double CTB 129–255 L795 Magical Magenta
19	G EL Fine	0	Fine byte of G EL
20	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
21	F AVORITE	0	
22	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
23	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 30 - Ultimate 8Bit

24 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Mode	0	0–9 CCT/Tint 10–19 HSI 20–29 RGBW 30–39 GEL Mode 40–49 Source Matching 50–59 CIE X Y 60–255 Effects

Mode 30 - Ultimate 8Bit (continued)

Ch	Function	Default	DMX values
3	Color Wheel	0	0–9 2000 10–10 Party 11–16 2800 17–19 3200 20–29 Candle 30–34 Clouds 35–39 4500 40–49 Club Lights 50–50 Color Chase 51–59 5600 60–63 Cop Car 64–69 6500 70–79 Fire 80–84 Fireworks 85–89 120 deg (Green) 90–99 Strobe 100–101 Lightning 102–109 Discharge 110–112 Paparazzi 113–119 10000 120–129 Pulsing 130–139 Television 140–149 Explosion 150–152 Flourescent Flicker 153–159 Other 160–169 Process 170–179 240 deg (Blue) 180–254 Reserved 255–255 20000

Mode 30 - Ultimate 8Bit (continued)

Ch	Function	Default	DMX values
4	Color Wheel 2	0	0–0 No Effect 1–2 0 > Full Sat 3–5 Incandescent 6–8 Halogen 9–10 Antique 11–11 Full Minus G 12–14 Wm Antique 15–17 Xmas Lights 18–20 Night Light 21–23 99% < 1% Minus G 24–26 Grow Light 27–27 Reserved 28–29 Blue+Red 30–31 Amber Caution 32–32 6 Colors 33–35 Green Traffic Light 36–38 Yellow Traffic Light 39–41 Red Traffic Light 42–44 Blue Glow Stick 45–47 Green Glow Stick 48–50 Red Glow Stick 51–53 Yellow Glow Stick 54–55 Pink Glow Stick 56–56 Blue+White 57–59 Violet Glow Stick 60–63 Reserved 64–83 9 Colors 84–84 Blue+Red+White 85–95 Brightest 96–111 12 Colors 112–119 Blue+Amber 120–127 Neutral 128–139 15 Colors 140–145 Blue+Red+Amber 146–159 1% > 99% Plus G 160–167 18 Colors 168–170 Red+Amber 171–191 No Color 192–195 21 Colors 196–223 Amber 224–244 24 Colors 245–254 Full Plus G 255–255 Max
5	Color3	0	0–0 Min 1–10 >> 11–16 2800 17–31 3200 32–34 Double Flash 35–50 4500 51–63 5600 64–95 Quint All 96–99 Quint Flash 100–112 Rosco 113–127 10000 128–128 Default 129–159 2x <Fast 160–199 Cycle All 200–253 Lee 254–254 Fastest 255–255 Max

Mode 30 - Ultimate 8Bit (continued)

Ch	Function	Default	DMX values
6	Color4	0	0–0 Min 1–10 0 >> 100% Sat 11–16 Full Minus G 17–20 3200 21–34 99% >> 1% Plus G 35–50 4500 51–63 5600 64–101 6500 102–112 Storaro 113–119 10000 120–145 Neutral 146–152 1% >> 99% Plus G 153–203 Roscolux 204–244 NA 245–254 Full Plus G 255–255 Max
7	Color5	0	
8	Color6	0	0–0 No Effect 1–10 >> 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–254 Full Plus G 255–255 360
9	Color7	0	0–0 No Sat 1–254 0 >> 100% Sat 255–255 Full Sat
10	Color8	0	0–0 Bump to Trigger 1–254 0 >> 100% Sat 255–255 Full Sat
11	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
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	Reserved 20	0	
21	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
22	F AVORITE	0	
23	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz

Mode 30 - Ultimate 8Bit (continued)

Ch	Function	Default	DMX values
24	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 27 - Zone HSI 16Bit

26 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	H SBHue	0	0–84 0deg - Red 85–169 120deg - Green 170–255 240deg - Blue
4	H SBHue Fine	0	Fine byte of H SBHue
5	H SBSaturation	0	
6	H SBSaturation Fine	0	Fine byte of H SBSaturation
7	Reserved 7	0	
8	Reserved 8	0	
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	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	

Mode 27 - Zone HSI 16Bit (continued)

Ch	Function	Default	DMX values
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	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
26	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 29 - Zone XY 16Bit

26 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	C IEX	127	
4	C IEX Fine	0	Fine byte of C IEX
5	C IEY	127	
6	C IEY Fine	0	Fine byte of C IEY
7	Reserved 7	0	
8	Reserved 8	0	

Mode 29 - Zone XY 16Bit (continued)

Ch	Function	Default	DMX values
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	Reserved 15	0	
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	Reserved 24	0	
25	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
26	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 34 - Zone CCT+XY 8Bit

26 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	Tint	127	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 White 255–255 Color
5	C IEX	0	
6	C IEY	0	
7	Reserved 7	0	
8	Reserved 8	0	
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	Reserved 15	0	
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	Reserved 24	0	
25	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off

Mode 34 - Zone CCT+XY 8Bit (continued)

Ch	Function	Default	DMX values
26	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 24 - Zone CCT+RGBW 8Bit

34 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
3	Tint	127	0–10 No Effect 11–20 Full Minus G 21–119 99% >> 1% Minus G 120–145 Neutral 146–244 1% >> 99% Plus G 245–255 Full Plus G
4	C OLORXF	0	0–254 White 255–255 Color
5	Red	255	
6	Green	255	
7	Blue	255	
8	White	255	
9	Reserved 9	0	
10	Reserved 10	0	

Mode 24 - Zone CCT+RGBW 8Bit (continued)

Ch	Function	Default	DMX values
11	Reserved 11	0	
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	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	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off

Mode 24 - Zone CCT+RGBW 8Bit (continued)

Ch	Function	Default	DMX values
34	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 31 - Ultimate 16Bit

42 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer
3	Mode	0	0–9 CCT/Tint 10–19 HSI 20–29 RGBW 30–39 GEL Mode 40–49 Source Matching 50–59 CIE X Y 60–69 Effects 70–255 No Feature

Mode 31 - Ultimate 16Bit (continued)

Ch	Function	Default	DMX values
4	Color Wheel	0	0–8 2000 9–10 Party 11–16 2800 17–18 3200 19–28 Candle 29–34 Clouds 35–38 4500 39–48 Club Lights 49–50 Color Chase 51–58 5600 59–63 Cop Car 64–68 6500 69–78 Fire 79–84 Fireworks 85–88 120 deg (Green) 89–98 Strobe 99–101 Lightning 102–108 Discharge 109–112 Paparazzi 113–118 10000 119–128 Pulsing 129–138 Television 139–148 Explosion 149–152 Flourescent Flicker 153–158 Other 159–168 Process 169–169 Welding 170–178 240 deg (Blue) 179–254 Reserved 255–255 20000
5	Color Wheel Fine	0	Fine byte of Color Wheel

Mode 31 - Ultimate 16Bit (continued)

Ch	Function	Default	DMX values
6	Color Wheel 2	0	0–0 No Effect 1–2 6 > 120/min 3–5 Incandescent 6–8 Halogen 9–11 Antique 12–14 Wm Antique 15–16 Xmas Lights 17–17 Full Minus G 18–20 Night Light 21–23 Infrared Heat 24–26 Grow Light 27–27 Reserved 28–29 Blue+Red 30–31 Amber Caution 32–32 6 Colors 33–35 Green Traffic Light 36–37 Yellow Traffic Light 38–38 99% < 1% Minus G 39–41 Red Traffic Light 42–44 Blue Glow Stick 45–47 Green Glow Stick 48–50 Red Glow Stick 51–53 Yellow Glow Stick 54–55 Pink Glow Stick 56–56 Blue+White 57–59 Violet Glow Stick 60–63 Reserved 64–83 9 Colors 84–84 Blue+Red+White 85–95 Brightest 96–111 12 Colors 112–116 Blue+Amber 117–127 Neutral 128–139 15 Colors 140–155 Blue+Red+Amber 156–159 1% > 99% Plus G 160–167 18 Colors 168–170 Red+Amber 171–191 No Color 192–195 21 Colors 196–223 Amber 224–234 24 Colors 235–254 Full Plus G 255–255 Max
7	Color Wheel 2 Fine	0	Fine byte of Color Wheel 2
8	Color3	0	0–0 Min 1–10 Slow > Fast 11–16 2800 17–31 3200 32–34 Double Flash 35–50 4500 51–63 5600 64–95 Quint All 96–99 Quint Flash 100–112 Rosco 113–127 10000 128–128 Default 129–159 2x <Fast 160–199 Cycle All 200–254 Lee 255–255 Max
9	Color3 Fine	0	Fine byte of Color3

Mode 31 - Ultimate 16Bit (continued)

Ch	Function	Default	DMX values
10	Color4	0	0–10 Color Correction 11–16 2800 17–34 Full Minus G 35–37 4500 38–50 99% >> 1% Plus G 51–63 CalColor 64–101 6500 102–112 Storaro 113–116 10000 117–152 Neutral 153–155 Roscolux 156–203 1% >> 99% Plus G 204–234 NA 235–254 Full Plus G 255–255 Bump to Sync
11	Color4 Fine	0	Fine byte of Color4
12	Color5	0	
13	Color5 Fine	0	Fine byte of Color5
14	Color6	0	0–16 No Effect 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–234 1% >> 99% Plus G 235–254 Full Plus G 255–255 360
15	Color6 Fine	0	Fine byte of Color6
16	Color7	0	0–0 No Sat 1–254 0 >> 100% Sat 255–255 Full Sat
17	Color7 Fine	0	Fine byte of Color7
18	Color8	0	0–0 2800 1–13 0 >> 100% Sat 14–59 3200 60–98 4500 99–130 5600 131–254 6500 255–255 10000
19	Color8 Fine	0	Fine byte of Color8
20	C OLORXF	0	0–254 Layer 1 255–255 Layer 2
21	C OLORXF Fine	0	Fine byte of C OLORXF
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	

Mode 31 - Ultimate 16Bit (continued)

Ch	Function	Default	DMX values
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
40	F AVORITE	0	
41	Shutter / Strobe	0	0–19 open 20–254 Shutter1Strobe · slow 1–24.9 Hz 255–255 Shutter1Strobe · fast 25 Hz
42	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 35 - Zone CCT+XY 16Bit

50 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 closed 255–255 open
2	Dimmer Fine	0	Fine byte of Dimmer

Mode 35 - Zone CCT+XY 16Bit (continued)

Ch	Function	Default	DMX values
3	C TC	14	0–10 2000 11–16 2800 17–34 3200 35–50 4500 51–63 5600 64–112 6500 113–254 10000 255–255 20000
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	0–16 Empty Channel Set 17–37 Full Minus G 38–116 99% >> 1% Minus G 117–155 Neutral 156–237 1% >> 99% Plus G 238–255 Full Plus G
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	0–254 White 255–255 Color
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	C IEX	0	
10	C IEX Fine	0	Fine byte of C IEX
11	C IEY	0	
12	C IEY Fine	0	Fine byte of C IEY
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	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	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	Reserved 37	0	
38	Reserved 38	0	

Mode 35 - Zone CCT+XY 16Bit (continued)

Ch	Function	Default	DMX values
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Fan Mode	0	0–9 Fan Mode from Menu 10–57 Quiet 58–105 Variable 106–153 High Temp 154–201 Normal 202–249 Full Speed 250–255 Fan Off
50	Control1	0	0–19 No Function 20–24 DMX Preset 1 25–29 DMX Preset 2 30–34 DMX Preset 3 35–39 DMX Preset 4 40–44 DMX Preset 5 45–49 DMX Preset 6 50–54 DMX Preset 7 55–59 DMX Preset 8 60–64 DMX Preset 9 65–69 DMX Preset 10 70–74 High Speed Off 75–79 High Speed On 80–84 Dimmer Smoothing Off 85–89 Dimmer Smoothing On 90–94 Unlink CRMX 95–99 Vari Fan 100–104 High Output Mode 105–109 Low Noise 110–114 ARRI ALEXA Vari Fan 115–119 ARRI ALEXA High Output 120–124 ARRI ALEXA Low Noise 125–129 Tungsten Off 130–134 Tungsten On 135–139 Exponential Dimming Curve 140–144 Logarithmic Dimming Curve 145–149 Linear Dimming Curve 150–154 S Dimming Curve 155–255 Reserved

Mode 25 - Zone CCT+RGBW 16Bit

66 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	14	
4	C TC Fine	57	Fine byte of C TC
5	Tint	128	

Mode 25 - Zone CCT+RGBW 16Bit (continued)

Ch	Function	Default	DMX values
6	Tint Fine	0	Fine byte of Tint
7	C OLORXF	0	
8	C OLORXF Fine	0	Fine byte of C OLORXF
9	Red	255	
10	Red Fine	0	Fine byte of Red
11	Green	255	
12	Green Fine	0	Fine byte of Green
13	Blue	255	
14	Blue Fine	0	Fine byte of Blue
15	White	255	
16	White Fine	0	Fine byte of White
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	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	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	

Mode 25 - Zone CCT+RGBW 16Bit (continued)

Ch	Function	Default	DMX values
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Fan Mode	0	
66	Control1	0	