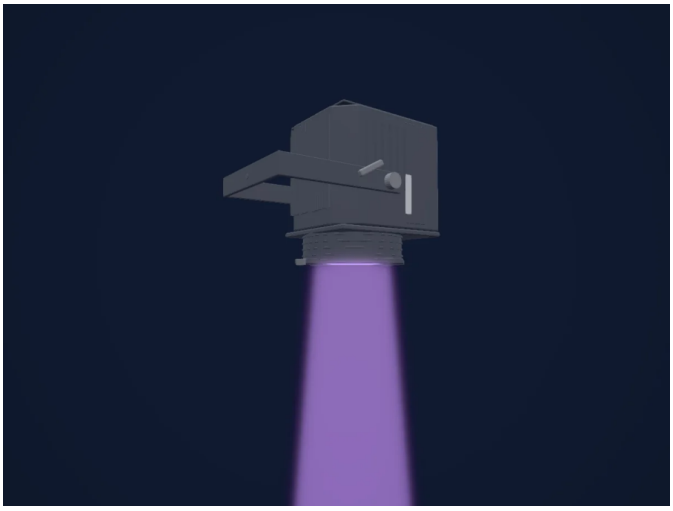
ETC

Desire Fresnel



Manufacturer	**ETC**
Type	**Spot**
DMX modes	**10**
DMX footprint	**1, 3, 7, 8, 9, 11, 12, 16, 21 channels**
Beam angle	**13°**
Size (W × H × D)	**305 × 357 × 458 mm**
GDTF fixture type	**C14BC9DA-D7E4-5EBC-9264-F…**

Controls

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

DMX modes

1 Ch	1 ch
3 Ch RGB	3 ch
Studio	7 ch
HSIC	8 ch
Studio 16bit	9 ch
Expanded	11 ch
HSIC 16bit	11 ch
Direct	12 ch
Expanded 16bit	16 ch
Direct 16bit	21 ch

1 Ch

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	

3 Ch RGB

3 channels

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

Studio

7 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	C TC	0	0–0 3200 K 1–165 1900-6000 K 166–254 6050-10,450 K 255–255 5600 K
3	Tint	0	0–0 Neutral 1–127 Linear between +10 and 0 128–128 Neutral 129–255 Linear between 0 and -10
4	Color RGBQuality	0	0–49 Brightest 50–149 Spectral 150–170 Studio mode: Metamer (linear adjustment from -1 ... 171–255 Reserved
5	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
6	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
7	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

HSIC

8 channels

Ch	Function	Default	DMX values
1	H SBHue	0	

HSIC (continued)

Ch	Function	Default	DMX values
2	H SBHue Fine	0	Fine byte of H SBHue
3	H SBSaturation	0	
4	Dimmer	0	
5	C TC	0	0–0 3200 K 1–165 1900-6000 K 166–254 6050-10,450 K 255–255 5600 K
6	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
7	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
8	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Studio 16bit

9 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	0	
4	C TC Fine	0	Fine byte of C TC
5	Tint	0	0–0 Neutral 1–127 Linear between +10 and 0 128–128 Neutral 129–255 Linear between 0 and -10
6	Color RGBQuality	0	0–49 Brightest 50–149 Spectral 150–170 Studio mode: Metamer (linear adjustment from -1 ... 171–255 Reserved
7	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe

Studio 16bit (continued)

Ch	Function	Default	DMX values
8	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
9	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Expanded

11 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	C TC	0	0–0 3200 K 1–165 1900-6000 K 166–254 6050-10,450 K 255–255 5600 K
3	Tint	0	0–0 Neutral 1–127 Linear between +10 and 0 128–128 Neutral 129–255 Linear between 0 and -10
4	Color RGBQuality	0	0–49 Brightest 50–149 Spectral 150–170 Expanded mode: Reserved 171–255 Reserved
5	Color Mix Mode	0	0–0 Full Studio 1–254 Linear interpolation from Studio to RGB 255–255 Full RGB
6	Red	0	
7	Green	0	
8	Blue	0	
9	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
10	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved

Expanded (continued)

Ch	Function	Default	DMX values
11	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

HSIC 16bit

11 channels

Ch	Function	Default	DMX values
1	H SBHue	0	
2	H SBHue Fine	0	Fine byte of H SBHue
3	H SBSaturation	0	
4	H SBSaturation Fine	0	Fine byte of H SBSaturation
5	Dimmer	0	
6	Dimmer Fine	0	Fine byte of Dimmer
7	C TC	0	
8	C TC Fine	0	Fine byte of C TC
9	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
10	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
11	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Direct

12 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Color Add DR	0	
3	Red	0	
4	Color Add RY	0	
5	Color Add GY	0	
6	Green	0	
7	Color Add C	0	

Direct (continued)

Ch	Function	Default	DMX values
8	Blue	0	
9	Color Add I	0	
10	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
11	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
12	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Expanded 16bit

16 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	C TC	0	
4	C TC Fine	0	Fine byte of C TC
5	Tint	0	0–0 Neutral 1–127 Linear between +10 and 0 128–128 Neutral 129–255 Linear between 0 and -10
6	Color RGBQuality	0	0–49 Brightest 50–149 Spectral 150–170 Expanded mode: Reserved 171–255 Reserved
7	Color Mix Mode	0	0–0 Full Studio 1–254 Linear interpolation from Studio to RGB 255–255 Full RGB
8	Red	0	
9	Red Fine	0	Fine byte of Red
10	Green	0	
11	Green Fine	0	Fine byte of Green
12	Blue	0	
13	Blue Fine	0	Fine byte of Blue

Expanded 16bit (continued)

Ch	Function	Default	DMX values
14	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
15	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
16	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Direct 16bit

21 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Color Add DR	0	
4	Color Add DR Fine	0	Fine byte of Color Add DR
5	Red	0	
6	Red Fine	0	Fine byte of Red
7	Color Add RY	0	
8	Color Add RY Fine	0	Fine byte of Color Add RY
9	Color Add GY	0	
10	Color Add GY Fine	0	Fine byte of Color Add GY
11	Green	0	
12	Green Fine	0	Fine byte of Green
13	Color Add C	0	
14	Color Add C Fine	0	Fine byte of Color Add C
15	Blue	0	
16	Blue Fine	0	Fine byte of Blue
17	Color Add I	0	
18	Color Add I Fine	0	Fine byte of Color Add I

Direct 16bit (continued)

Ch	Function	Default	DMX values
19	Shutter / Strobe	0	0–0 No Strobe 1–40 Dark Strobe 1–40 Hz 41–80 Bright Strobe 1–40 Hz 81–120 Pulse Strobe 121–160 Random Strobe 161–200 Flicker Effect 201–240 No Strobe 241–254 LEDs Off 255–255 No Strobe
20	Dimmer Curve	0	0–9 Incandescent 10–19 Linear 20–29 Incandescent Red Shift 30–39 Linear Red Shift 40–49 Quick 50–59 Quick Linear 60–69 Unregulated 70–79 Standard 80–255 Reserved
21	Fans	0	0–9 Auto 10–19 Off 20–20 Slow 21–248 Linear Increase in Speed 249–249 Fast 250–255 Auto

Fixture model: gdtf-etc-desire-fresnel-2611069634
Creator: HitLight
Modifications: Original HitLight 3D housing: scripted parametric geometry modelled by HitLight from public product photos and the manufactu...