

HELIOS+19z// HARD SKILLS



[CODE 105436]



Accessories: Powercon (mK), Omega Bracket (optional), Spare parts (see also spare parts list), Case for 6x Helios19z (optional).

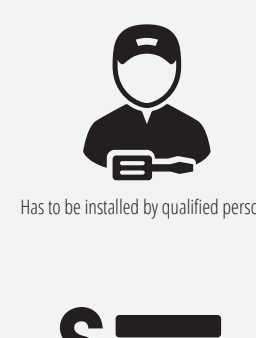
Factory Default Cheat:



DMX Pin Definition:

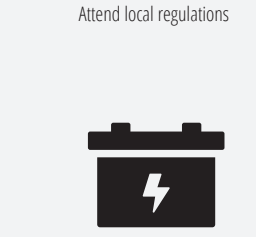


SAFETY:



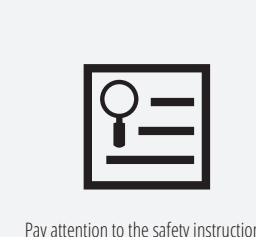
Has to be installed by qualified personnel.

ATTEND LOCAL REGULATIONS:



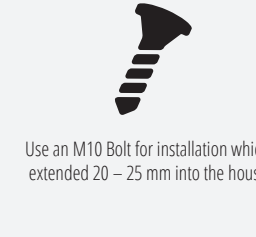
Attend local regulations.

PAY ATTENTION TO THE SAFETY INSTRUCTIONS IN THE MANUAL:



Pay attention to the safety instructions in the manual.

USE AN M10 BOLT FOR INSTALLATION WHICH IS EXTENDED 20-25 mm INTO THE HOUSING:



Always use a suitable safety cap.

ALWAYS HAS TO BE GROUNDING PROPERLY:



Always has to be grounded properly.

SPECIFICATIONS:

Light source:

- 15x15 Watt class RGBW LED
- Rated lumen output: 7.800 lm
- LED Life Expectancy: approx. 50.000 hours

Optical system:

- Consistent Color™ Zoom Optics
- Rapid Zoom with 0.8x maximum speed
- Beam angle 11°-58°

Functions:

- RGBW, 0 or 16 bit color mixing
- SteadyColor™ Dimming
- Seamless CTO
- Virtual color wheel with 39 colors including whites
- (2.700 K, 3.200 K, 4.200 K, 5.600 K, 7.200 K and 9.000 K)
- Individual LED colors control
- Individual shutter/dimmer for each LED
- Pattern effects with variable speed
- High resolution dimmer 0-100%
- Selectable dimmer curves
- Strobe with variable speed (max. 20Hz)
- Pre-programmed random strobe & pulse effects

Movement:

- High precision 2 phase stepping motors
- 16-bit Pan/Tilt control
- Position feedback
- Pan and Tilt movement range: 540°/270°

Thermal:

- Maximum ambient temperature: 45° C (113° F)
- Intelligent fan control
- 4 fan modes

Control and programming:

- Setting & Addressing:
- 2x 16 characters LCD display / 4 buttons
- Protocols: USITT DMX 512, Art-Net 3
- Control channels: 15, 31, 51, 137, 165
- 4 DMX preset modes
- 3-editable programs, each up to 25 steps
- Stand-alone mode
- Art-Net Node function
- Firmware update via DMX line
- DMX to Cue: Neutrik KS-3, M18-5
- Power to Out: Neutrik powerCON®
- Art-Net: Neutrik etherCON®

Electrical Specification:

- Electronic switching power supply with auto-sensing
- Input voltage: 100-240V AC, 50/60 Hz
- Max. power consumption: 350 W
- Fuse protection: 1T10A (6.3x 32 mm)

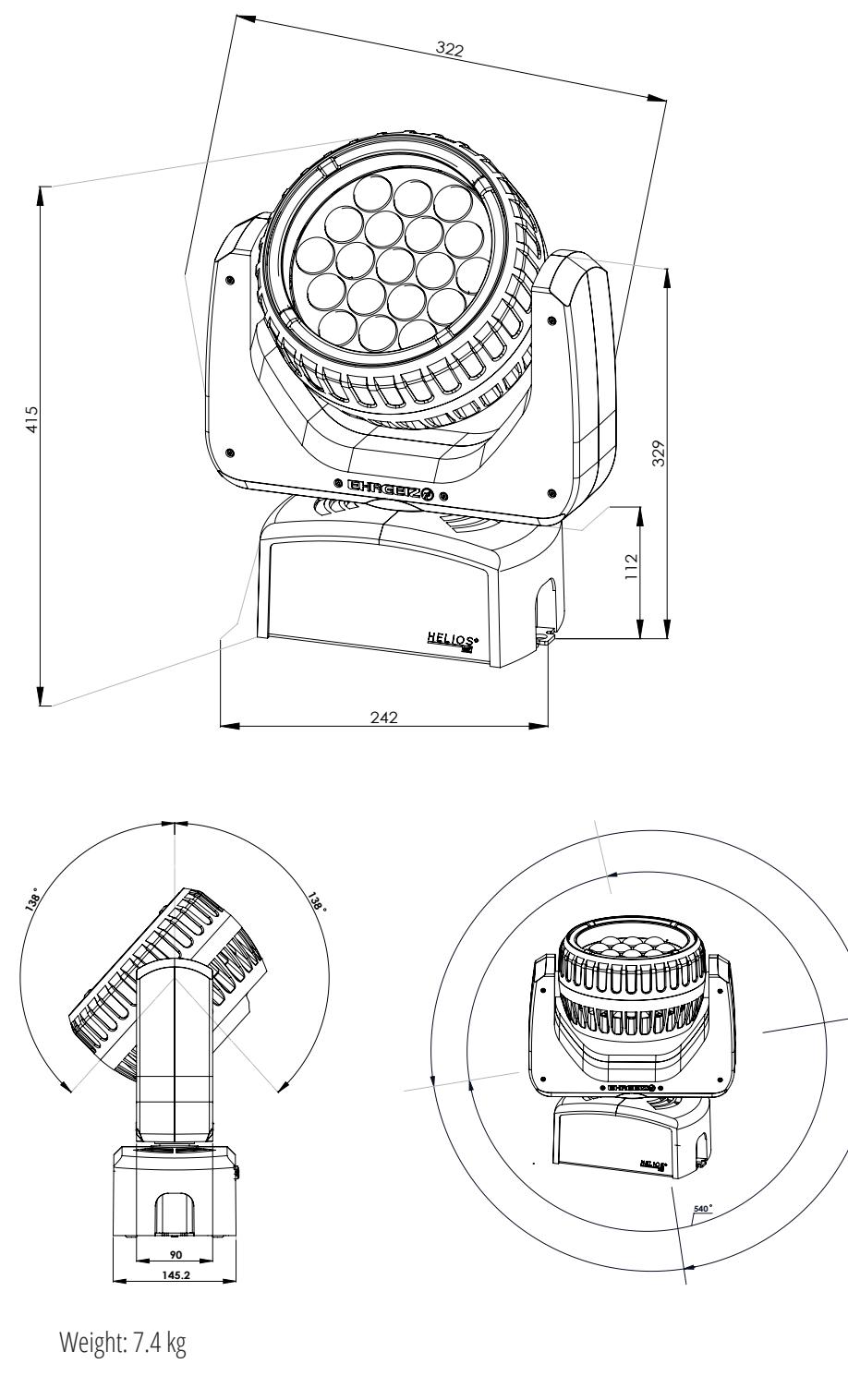
Mechanical Specification:

- Weight: 7.4 kg (16.31 lbs)

Rigging:

- Centered M10 insert nut
- Two 1/4" turn mounting inserts for omega bracket
- 2 attachment points for safety wire

Dimensions in mm

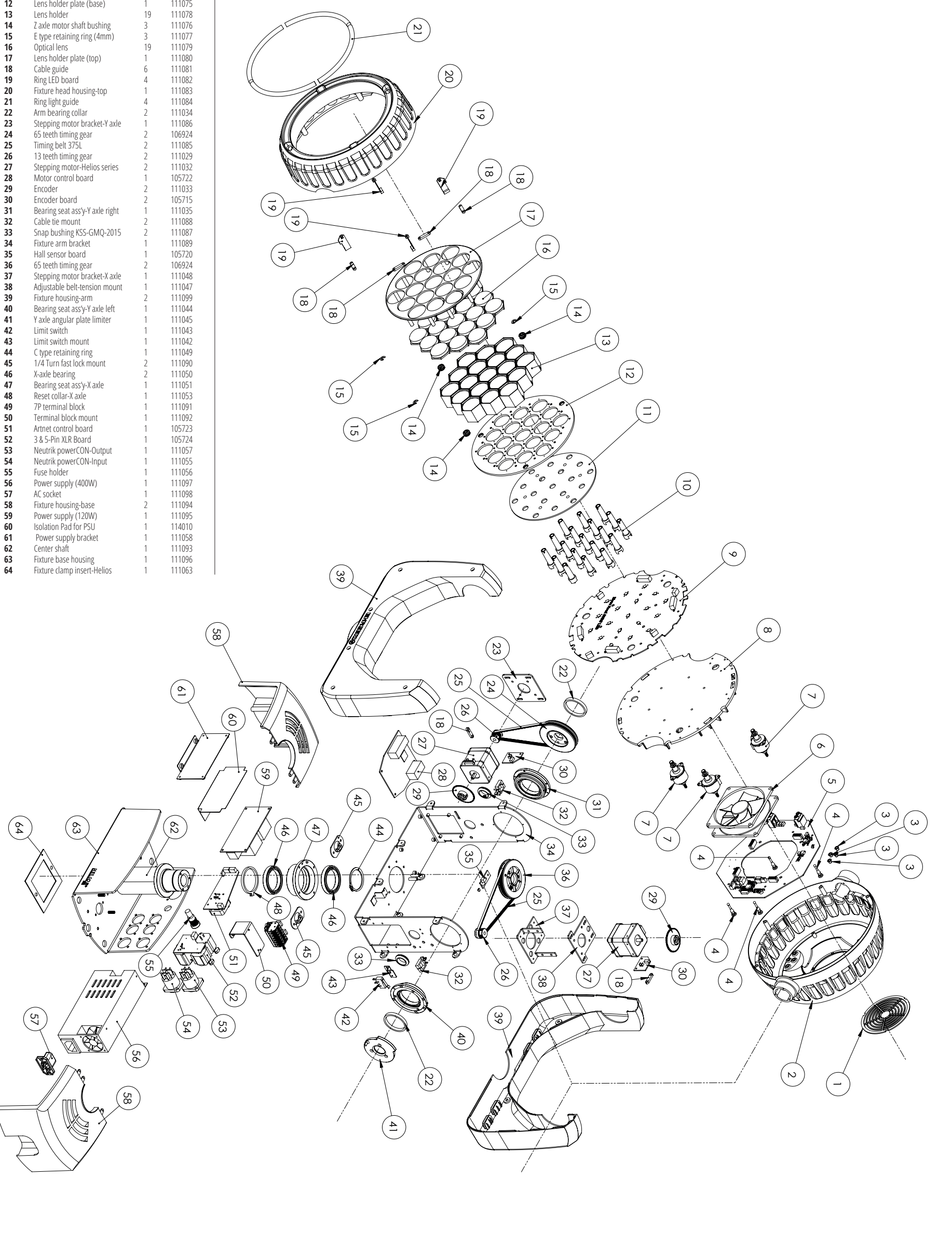


Weight: 7.4 kg

EXPLODED DRAWING

SPAREPARTS

#	DESCRIPTION	Q'TY	ITEM NO.
1	Fan grille-leave top	1	111088
2	Fixture head housing base	1	111089
3	Input button rubber cap	4	100914
4	Head cooling fan rubber cover	4	100915
5	Control slider button	1	100721
6	Head cooling fan 12V	1	111070
7	2 axle motor	1	111071
8	Hue ring	1	111072
9	LED board	19	111078
10	Light guide axis	19	111075
11	Light guide holder plate	1	111074
12	Lens holder plate (base)	1	111075
13	Lens holder	19	111078
14	2 axle motor start bearing	1	111079
15	E-type retaining ring (drem)	3	111077
16	Optical lens	19	111079
17	Lens holder plate (top)	1	111080
18	Cable guide	6	111081
19	Ring LED board	4	111082
20	Fixture head housing top	1	111083
21	Ring light guide	4	111084
22	Arm bearing collar	2	111034
23	Stepping motor bracket 4 axle	2	111086
24	65 teeth timing gear	2	100624
25	Timing belt 175L	1	111085
26	13 teeth timing gear	2	111028
27	Stepping motor-Helios series	2	111032
28	Motor control board	1	100722
29	Encoder	2	111033
30	Encoder board	2	100725
31	Bearing set 4x5/8 axle right	1	111035
32	Cable fix mount	1	111088
33	Snap bearing KS-GM4-2015	2	111087
34	Fixture arm bracket	1	111089
35	Half sensor board	1	100720
36	65 teeth timing gear	2	100624
37	Stepping motor bracket 4 axle	1	111086
38	Adjustable belt sensor mount	1	111047
39	Fixture holding arm	1	111046
40	Bearing set 4x5/8 axle left	1	111044
41	Face angular plate limiter	1	111045
42	Lens switch	1	111043
43	Lens switch mount	1	111042
44	C-type retaining ring	1	111049
45	1/4" turn fast lock mount	2	111050
46	3-axle bearing	2	111051
47	Bearing set 4x5/8 axle	1	111051
48	Print color ink	1	111053
49	7P terminal block	1	111091
50	Terminal block mount	1	111092
51	Active control board	1	100723
52	3.5-5 pin A-B board	1	100724
53	Neutrik powerCON output	1	111027
54	Neutrik powerCON input	1	111025
55	Focal holder	1	111056
56	Power supply 4000W	1	111097
57	AC cable	1	111086
58	Fixture housing base	2	111094
59	Power supply 170W	1	111095
60	Isolation pad for PSU	1	111010
61	Power supply bracket	1	111058
62	Control board	1	111093
63	Fixture base housing	1	111096
64	Fixture lamp insert-Helios	1	111093



HELIOS+19Z// SOFT SKILLS

MENU MAP

DMX ADDRESS	Ethernet Setup	DMX Mode	Remote DMX Add.	P/T Setting	Personality	Dimmer Curve	Dimmer Speed	Cooling Mode	MIC Enable	MIC Sensitivity	Reset via DMX	Display Setting	Test Sequences	Master/Slave	Stand Alone	Program Edit	Program Play	Reset	Factory default	Fixture Time	Head LED	Head Driver	Version	Serial Number	DMX Live
1-512	Ethernet Enable	Standard Mode	On	P/T Speed	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 1	Program 1	Program 1	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
513-1024	IP Address	Advanced Mode	Off	PAN Invert	Dimmer Curve	Inverse Square	Fast	Standard	Low	High	Off	Shutoff Time	Dynamic Mode	Slave	Program 2	Program 2	Program 2	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
1025-1536	Subnet	Pixel Mapping	On	Tilt Invert	Dimmer Curve	Theatrical	Auto	Standard	High	High	On	No Signal Flash	Static Mode	Master	Program 3	Program 3	Program 3	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
1537-2048	Universe	Compressed RGBW	Off	Feedback	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 4	Program 4	Program 4	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
2049-2560	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 5	Program 5	Program 5	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
2561-3072	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 6	Program 6	Program 6	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
3073-3584	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 7	Program 7	Program 7	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
3585-4096	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 8	Program 8	Program 8	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
4097-4608	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 9	Program 9	Program 9	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
4609-5120	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 10	Program 10	Program 10	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
5121-5632	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 11	Program 11	Program 11	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
5633-6144	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 12	Program 12	Program 12	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
6145-6656	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 13	Program 13	Program 13	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
6657-7168	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 14	Program 14	Program 14	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
7169-7680	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 15	Program 15	Program 15	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
7681-8192	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 16	Program 16	Program 16	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
8193-8704	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 17	Program 17	Program 17	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
8705-9216	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 18	Program 18	Program 18	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
9217-9728	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 19	Program 19	Program 19	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
9729-10240	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 20	Program 20	Program 20	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
10241-10752	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 21	Program 21	Program 21	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
10753-11264	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 22	Program 22	Program 22	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
11265-11776	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 23	Program 23	Program 23	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
11777-12288	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 24	Program 24	Program 24	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
12289-12800	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 25	Program 25	Program 25	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
12801-13312	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 26	Program 26	Program 26	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
13313-13824	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 27	Program 27	Program 27	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
13825-14336	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 28	Program 28	Program 28	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
14337-14848	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 29	Program 29	Program 29	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
14849-15360	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 30	Program 30	Program 30	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
15361-15872	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 31	Program 31	Program 31	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
15873-16384	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 32	Program 32	Program 32	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
16385-16896	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 33	Program 33	Program 33	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
16897-17408	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 34	Program 34	Program 34	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
17409-17920	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 35	Program 35	Program 35	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
17921-18432	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 36	Program 36	Program 36	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
18433-18944	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 37	Program 37	Program 37	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
18945-19456	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 38	Program 38	Program 38	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
19457-19968	Subnet	Pixel Mapping	On	P/T Release	Dimmer Curve	Square Law	Smooth	Standard	Disable/Enable	Normal	On	Intensity	Static Mode	Master	Program 39	Program 39	Program 39	Reset All	Factory default	Clear	Head LED	Head Driver	V. XXXXX	XXXXXX	See the actual DMX input values
19969-20480	Universe	Compressed RGBW	Off	P/T Release	Dimmer Curve	Theatrical	Auto	Standard	Low	High	On	No Signal Flash	Static Mode	Slave	Program 40	Program 40	Program 40	Reset All	Factory default	Clear	Head LED	Head Driver	V		