Lites

HPLED DE C6

Colour RGBACL

Retrofit for Fresnel
LEONARDO 2000 cod. 320-321 (De Sisti)

Owner's and service manual

Read this manual totally and carefully follow all the instructions contained. File this manual for future use. It is essential to read all the information contained to ensure correct installation, service and full operation of the HPLED DE C6
All operations must be accomplished, handled and carried out by qualified personnel only.
NOT COMPLYNIG WITH GIVEN NOTICE IT WILL VOID WARRANTY AND WILL FREE THE MANUFACTURER OF ANY KIND OF RESPONSABILITY AND LIABILITY.

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Unpacking

Unpack the carton and gently remove HPLED DE C6 from the box. Ensure HPLED DE C6 is received in all its parts.In the event the HPLED DE C6 shows any damage, do not use it and contact immediately your transporter as well as your seller.

Items in the carton consist of:
- N. 1 HPLED DE C6 unit
- N. 2 Ø 4 mm washers
- N. 2 M4 screws
 Installation, utilisation and service ownerr's manual.

⚠️ **General Information and recommendation to operate the unit in good and safe conditions.**
Follow instructions with care and attention:
HPLED DE C6 must be used and housed only and exclusively for the 2000W Leonardo unit (code 320 – 321)

The HPLED DE C6 unit must NEVER be used unless it is housed in one of the models listed above. (Fresnel Leonardo cod. 320-321).

HPLED DE C6 fixture is only meant for professional use. NEVER use it for domestic or other improper use.
Minimum distance from any flammable source is of 0.25m.
Minimum throw distance from illuminated surface: 0.5m.
The installation of the unit(s) (prior to installation, the HPLED DE C6 unit must be housed in one of the De Sisti luminaires listed above), the housing of the external fixture body, must be secured with suitable clamps, safety cords and adequate protection.
Install HPLED DE C6 in ventilated ambient which temperature must not exceed 35°C
HPLED DE C6 is NOT for domestic use, HPLED DE C6 can only be used for professional applications.
When HPLED DE C6 unit is operated, some outer parts of the profile can reach temperatures of up to 60C°
HPLED DE C6 must be fitted with protection shields (Lenses)
On no account, directly or indirectly, LED must be touched as it may impair its use.
An Essential and Periodically throughout cleaning of the HPLED DE C6 is recommended. This practice avoids that layers of dust and other impurity jeopardise and reduce the correct operation of the unit. Lenses must be cleaned to remove layers of dust that may impede and or reduce the passage of the light through the lenses. The correct and periodically maintenance keeps also fans and vents clean thus keeping the HPLED DE C6 in its best performance conditions. Never touch, directly or indirectly, the Yellow core of the LED nor use solvents that can damage the LED irremediably. Protection shields if battered/worn, must be replaced with new ones (Lenses)

⚠️ **Warning from electric shocks**

All operations must be accomplished, handled and carried out by qualified personnel only
Warning High voltage hazard, always disconnect Power before any handling and any servicing of HPLED DE C6
Do not and never handle HPLED DE C6 with humid/wet hands or near to any water or any kind of moisture sources
Always connect HPLED DE C6 to mains fitted with safety device switch that cuts power off in case of danger
The HPLED DE C6 does NOT and CAN NOT be operated via Phase control dimmer nor connected/operated in NON-DiM mode
HPLED DE C6 is rated Class I
Earth connection is mandatory!

CE Approvals

The HPLED DE C6 products to which this manual refers to, complies with European directive pursuant to:
2014/35/EU safety of electrical equipment supplied at low voltage (LVD)
2014/30/EU Electromagnetic compatibility (EMC)
2011/65/EU Restriction of the use of certain hazardous substances (RoHS)

WARRANTY!

A 24-month warranty is granted on the HPLED DE C6 from purchase's date. Warranty covers fabrication defects only. Warranty is immediately voided if the HPLED DE C6 has been handled by unqualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the HPLED DE C6 will also void the warranty of the product(s). Silver colour label showing technical data and serial number, if removed or if data are impaired to render details illegible, it will immediately void the warranty

Technical specifications

Power Supply 100-240 V~ 50/60Hz
Maximum power consumption 200W
Stand-by power consumption 3W
Minimum ambient temperature -10°C
Maximum ambient temperature 35°C
LED Colour RGBACL: Red; green; blue; amber; cyan; lime
30 colored presets
10 white presets from 2,300°K to 10,000°K
LED CRI: *Minimun CRI* : 93> and 98>(depending on the selected white)
10 white presets from 2,300 ° K to 10,000 ° k
LED Life (see Manufacturers ' specifications)
Weight: 2,7 Kg
IP20 rating: To be housed into original Fresnel Leonardo 2000w De Sisti (cod. 320-321) series luminaire
Working position: Any
Data connectors: IN & OUT XRL5
Data protocols: DMX 512; RDM ready
User interface: 4-digit display and 4 buttons
Manual operation: Users must operate via buttons provided on the display
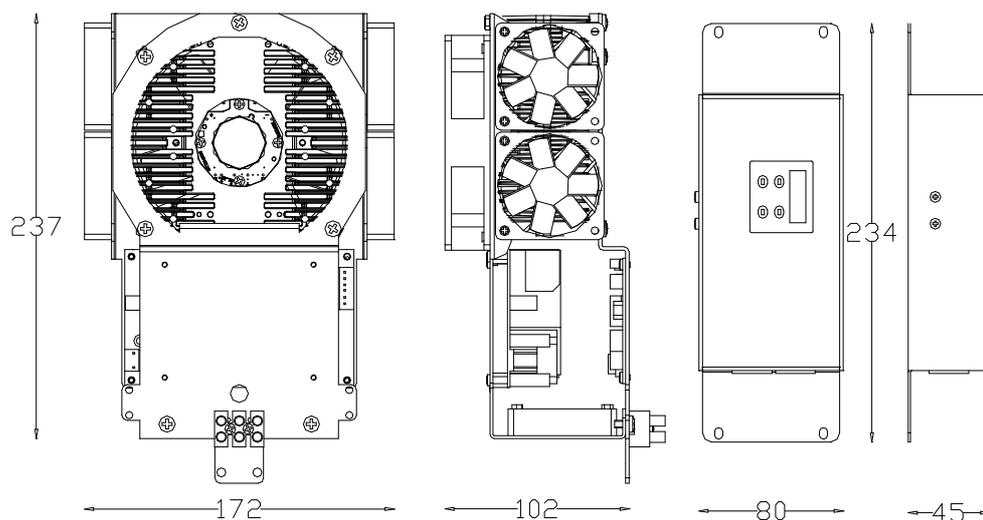Fan control: Fan speed adjustment
Control of LED frequency: Selection of LED frequency refresh
4 Dimming curves control: Selection of four dimming curves control
Compliant: $C \epsilon$
Dimensions (see picture):

⚠️ **It is mandatory to disconnect power from mains during the whole process installation of the HPLED DE C6 module.**

The HPLED DE C6 module has been designed to replace the halogen lamps used in the 2000 W Fresnel De Sisti Leonardo model projectors (codes 320 and 321) with a fully LED gear. Place the projector on an even surface with the base of the projector facing up. (see fig. 1). Loosen the 4 M4 screws that secure the lamp-holder, slide the box and remove the slide-holder-box from the projector (see fig. 2). Remove the mirror holder and the G38 lamp-base. Loosen the 2 M4 screws that holds the mirror-holder in place (see fig. 3) and as well the 2 M4 screws that holds the lamp-holder to the slide (see fig. 4). Use the 4 mm Allen-key to loosen the screws that hold the power cables to the lamp-holder. Loosen the M4 screw that holds the yellow/green ground-cable to the lamp-holder. Cut the eyelet lug from the ground cable. Drill the slide box at the indicated heights with a drill using a 20/25 mm drill-bit (see fig. 5). Hold the HPLED DE C6 module and connect the power cables to the three-pole terminal, ensure connection to the ground-cable (central terminal) and the power cables to the side terminals. Secure the power cables with the supplied clamps (see fig.6). Secure the HPLED DE C6 module to the slide with the use of 2 M4 screws (see fig. 7). Lead the DMX cables and the display-strip through the hole previously drilled (see fig. 8). Connect the strip to the display and the DMX connector to the HPLED DE C6 display holder-box (see fig. 9). Secure the signal cables with the supplied cable-tie. Remove the 4 side screws from the sled holder-box and fix the display box to the projector sled holder (see fig.10). Insert the assembled slide box into the Fresnel projector (see fig.11). Close the slide box with the 4 M4 screws (see fig.12).
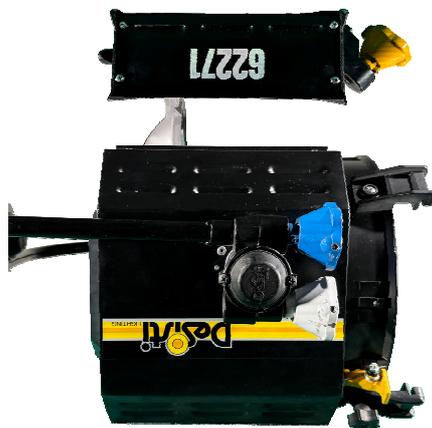
Fig.1

Fig.2
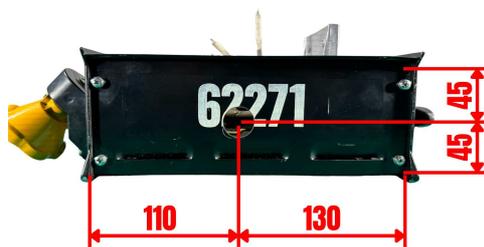

Fig.3

Fig.4

Fig.5

Fig.6

Fig.7

Fig.8

Fig.9

Fig.10

Fig.11

Fig.12

Connection to mains

WARNING ! Installation(s) must be accomplished, handled and carried out by qualified personnel only and must comply with all norms in force in the installation's country

Power up the projector using the supplied cable.

WARNING:NEVER CONNECT HPLED RJ ENGINE TO ANGLE PHASE DIMMER PACK NOR TO NON-DIM MODE

Signal control connection

HPLED DE C6 can be operated via either DMX512A and or RDM ready Protocols. For Daisy chain DMX line use a-2 lead wire plus shield.
Important note: when DMX is available a red dot will illuminate on the right hand of the display.When red dot is off no DMX signal is available.

Collegamento co connettore XLR5	
poli	descrizione
1	GND
2	DMX-
3	DMX+
4	NC
5	NC

RDM – Remote Device Management

RDM Controller allows for remote standard operations.
RDM default options include:
Discovery mode: RDM is engaged when controller incepts this mode, the device reports itself by giving a flash of light (Controller sets the device in a listing to read: settings, DMX address, personality settings, (Read all DMX mode including all DMX channels above)
ON/OFF "Identify": This mode is used to identify the manufacturer's device (Lites srl).
It gives a flash of light from the LED. Model information (HPLED DE C6)
Software version information (HPLED II v.x.xx)
Mode to reveal temperatures of the LED and of the driver
Mode to reveal hour-meters of the LED and of the device

The device allows RDM protocol, ANSI E1.20–010 version

RDM Device Model ID				
5445:1214xxxx				

The following parameters are allowed:

Denominazione Plasa/ESTA	RDM PID Value	Get	Set	Descrizione
CATEGORY – NETWORK MANAGMENT				
DISC UNIQUE BRANCH	0x0001			Message related to Discovery RDM process
DISC MUTE	0x0002			Message related to Discovery RDM process
DISC UN MUTE	0x0003			Message related to Discovery RDM process
CATEGORY – RDM INFORMATION				
SUPPORTED PARAMETERS	0x0050	X		List of allowed parameters
PARAMETER DESCRIPTION	0x0051	X		Parameters description *Manufacturer specific*
CATEGORY – PRODUCT INFORMATION				
DEVICE INFO	0x0060	X		Reading of following parameters: - Protcol RDM version

Denominazione Plasa/ESTA	RDM PID Value	Get	Set	Descrizione
				- Device Model ID - Product category - sw version ID - number of DMX channels - DMX mode index - DMX address - number of sensors
DEVICE MODEL DESCRIPTION	0x0080	X		Text description *device model* **HPLED-II-COLOR6**
MANUFACTURER LABEL	0x0081	X		Text description *manufacturer* **LITES**
SOFTWARE VERSION LABEL	0x00C0	X		*Text description sw version* **HPLED-II-COLOR6 v.1.xx**
CATEGORY – DMX512 SETUP				
DMX PERSONALITY	0x00E0	X	X	DMX mode setting
DMX PERSONALITY DESCRIPTION	0x00E1	X		Text description DMX mode
DMX START ADDRESS	0x00F0	X	X	DMX address setting/reading
CATEGORY – SENSORS				
SENSOR DEFINITION	0x0200	X		Value related to the sensor
SENSOR VALUE	0x0201	X	X	Parameter for the visualisation of values read by [Board / Led Temperature °C]
CATEGORY – DIMMER SETTINGS (ADDITIONAL MESSAGES)				
CURVE	0x0343	X	X	Parameter for gamma correction (gamma) selection
CURVE DESCRIPTION	0x0344	X		Description of gamma correction parameter
OUTPUT RESPONSE TIME	0x0345	X	X	Parameter related to output smoothness (smooth)
OUTPUT RESPONSE TIME DESCRIPTION	0x0346	X		Output smoothness parameter description
MODULATION FREQUENCY	0x0347	X	X	Parameter related to the selection of pmw signal frequency
MODULATION FREQUENCY DESCRIPTION	0x0348	X		Description of parameter related to the selection of pmw signal frequency
CATEGORY – POWER/LAMP SETTINGS				
DEVICE HOURS	0x0400	X		Parameter related to the reading of device lifespan
LAMP HOURS	0x0401	X		Parameter related to the reading of maximum value hours of led ignition [max between LED1...LED6]
CATEGORY – CONTROL				
IDENTIFY DEVICE	0x1000	X		Flashing LEDs to allow visual identification of the device
CATEGORY – MANUFACTURER-SPECIFIC PIDs				
BOOST	0x9000	X	X	Read/Write BOOST value
FAN MODE	0x9001	X	X	Read/Write FAN MODE value

RDM Parameters – Values

Name	Valid Values	Value Description
ADDITIONAL MESSAGES		
CURVE	1 2 3 4	Read / Write GAMMA value **1** = LINEAR **2 =** QUADRATIC [DEF] **3 =** S-CURVE **4 =** GAMMA 2.2
OUTPUT RESPONSE TIME	1 2 3 4	Read / Write SMOOTH value **1 =** SMOOTH 0 → FAST [250 ms] **2 =** SMOOTH 1 → MEDIUM [450ms] [DEF] **3 =** SMOOTH 2 → SLOW [800 ms] **4 =** SMOOTH 3 → SUPER FAST [15 ms]
MODULATION FREQUENCY	1 2 3 4 5 6 7 8 9 10	Read / Write PWM FREQUENCY value **1** = 1 kHz **2** = 2 kHz **3** = 3 kHz **4** = 4 kHz **5** = 5 Hz **6** = 6 kHz **7** = 7 kHz **8** = 8 kHz **9** = 9 kHz **10** = 10 kHz [DEF]
CATEGORY – MANUFACTURER-SPECIFIC PIDs		
BOOST	0 1	Read/Write BOOST value **0** = OFF [75%] [DEF] **1** = ON [90%]
FAN MODE	0 1 2 3	Read/Write FAN MODE value **0** = AUTO **1 =** MEDIUM HIGH [DEF] **2 =** MEDIUM LOW **3 =** LOW

Menu items

Displayed Message	Allowed or displayed values	Function	
Addr	001..512	Set Up DMX Address	
Auto (Automatic mode)	co01	Preset 1 red	It's possible to select 30 colored presets and 10 fixed white presets, without the aid of the DMX 512 signal. By selecting the value indicated from co01 to …… co40 you choose the combined color. When you turn off the projector the selected preset will be saved. In each preset you can change the output color level. Select the preset that needs to be to be changed. If you press once the Enter button, the display will show r (red) with the set value, then if you keep pressing Enter, G (green), b (blue), A (amber), c (cyan), L (lime), S (strobe), n (Rainbow), d (dimmer) will be displayed one by one. Use the Up and Down button to adjust the level of the 6 colors + the 3 functions n (raiwbow), S (strobe), d (dimmer), pressing them one by one from 0 to 255, to determine the output color. Always confirm with Enter to save the settings.
	co02	Preset 2 light red	
	co03	Preset 3 orange	
	co04	Preset 4 medium amber	
	co05	Preset 5 amber	
	co06	Preset 6 straw tint	
	co07	Preset 7 pale yellow	
	co08	Preset 8 spring yellow	
	co09	Preset 9 yellow	
	co10	Preset 10 lemon yellow	
	co11	Preset 11 lime	
	co12	Preset 12 lime green	
	co13	Preset 13 green	
	co14	Preset 14 moss green	
	co15	Preset 15 light cyan	
	co16	Preset 16 cyan	
	co17	Preset 17 peacock blue	
	co18	Preset 18 summer blue	
	co19	Preset 19 bright blue	
	co20	Preset 20 light steel blue	
	co21	Preset 21 light blue	
	co22	Preset 22 slate blue	
	co23	Preset 23 blue	
	co24	Preset 24 deep lavender	
	co25	Preset 25 lavender	
	co26	Preset 26 magenta	
	co27	Preset 27 rose pink	
	co28	Preset 28 dark pink	
	co29	Preset 29 bright pink	
	co30	Preset 30 Rainbow	
	co31	Preset 31 white 2300°k	
	co32	Preset 32 white 2700°k	
	co33	Preset 33 white 3200°k	
	co34	Preset 34 white 4000°k	
	co35	Preset 35 white 5600°k	
	co36	Preset 36 white 6500°k	
	co37	Preset 37 white 7000°k	
	co38	Preset 38 white 8000°k	
	co39	Preset 39 white 9000°k	
	co40	Preset 40 white 10000°k	
	Pr01 Pr02 Pr03 Pr04	Program 1: auto Program 2: auto Program 3: auto Program 4: auto	Automatic mode without DMX 512 Protocol signal.Program selections run between Pr01 through Pr 04. Both programs can be modified. To change program select Enter then view (Scn0…Scn6; max scenes of each program). Clicking on enter once more it shows P.00.0 (time) followed by F.00.0 (speed) and ultimately the last view shows 1c.01… though c40 (colour to be assigned to each scene) The use of UP/Down keys allow for setting values. When selections are completed press enter to confirm.

MASL	Master Mode	The Master Mode uses the same settings as the Auto Menu. The only exception is that when all fixtures are connected to DMX 001 in daisy-chain, they perform the same presets and or the same presets selected on the Master fixture. The slave projectors must be set in 9ch mode.
ModE	12 ch (D)	RGBACL 12 ch (default)
	2 ch	2 ch
	16 ch	RGBACL 16 ch (16 bit)
	6 ch	RGBACL 6 ch
	RGB	RGB 6 ch
	HSI	Stubio HSI 6 ch
	9ch	9 ch
	16chF	16 ch (setting options)

(Note: the right portion of the ModE rows carries a spanning cell: **Dmx mode (view next page)**)

drUt	..°C	Shows driver operating temperature
LEdt	..°C	Shows leds operating temperature
PUM	0..100%	Shows current led power (0-100%)
SMoo	SFSt FAST MED SLOW	DMX data Speed adjustment
GAMM	qUAd SCUr qUAd2 LInE	qUAd qUAd2 ScUr LinE (LIGHT OUTPUT 0–100 vs DMX OUTPUT 0–255) Dimming curves available
FrEq	1K 2K 3K 4K 5K 6K 7K 8K 9K 10K	LED operation frequence
booS	Off on	When OFF, LED max flux : 90% When ON, LED max flux : 100%
FAn	Aut MEDH MEDL LOW	4 fan operating modes i.e atuomatic, medium fast, medium slow, slow speed. Fan speed adjujstments (fan-sound) reflect on self-correct output LED brightness and other factors as room-temperature, number of engaged channels
PoS	AA VV	Display orientation selection: AA = normal VV = inverted
StbY	Off on	Standby display activity: off = display always switched on = display switched off after few seconds of buttons inactivity (only the right side dot will be lighted to indicate DMX availability)
dEF	SUrE	ON Will restore the default factory values
SoFt		Shows Software version
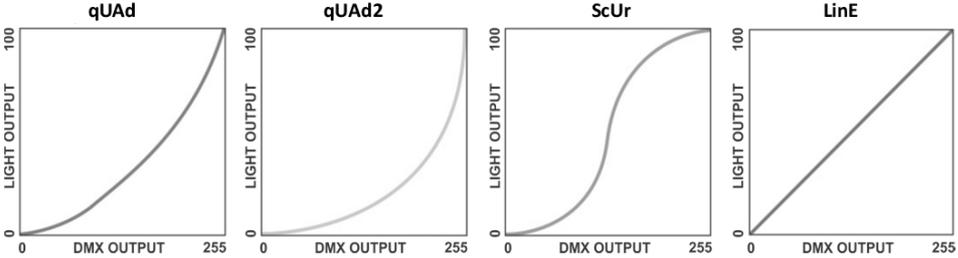
DMX Operating Modes (Mode)

Selecting 1 of the 8 available modes it enables the number of channels required, and its relevant modes, needed to operate HPLED DE C6

mode 12 ch RGBACL (default)

Ch	Function	Dmx levels	
1	red	0..255	From 0 to max 255
2	green	0..255	From 0 to max 255
3	blue	0..255	From 0 to max 255
4	amber	0..255	From 0 to max 255
5	cyan	0..255	From 0 to max 255
6	lime	0..255	From 0 to max 255
7	strobe	0...15	Strobo disingaged
		16...255	Strobo from slow (16) to fast (255)
8	Rainbow	0..15	Rainbow disingaged
		16..255	Rainbow from slow (16) to fast (255)
9	dimmer	0..255	From 0 to max 255
10 (priority on channel 11)	White selection	0...15	Deserted whites
		16...17	2300°k cri 93
		18...38	from 2300°k to 2700°k
		39...40	2700°k cri 97
		41...61	from 2700°k to 3200°k
		62...63	3200°k cri 98
		64...84	from 3200°k to 4000°k
		85...86	4000°k cri 95
		87...107	from 4000°k to 5600°k
		108...109	5600°k cri 98
		110...130	from 5600°k to 6500°k
		131...132	6500°k cri 95
		133...153	from 6500°k to 7000°k
		154...155	7000°k cri 93
		156...176	from 7000°k to 8000°k
		177...178	8000°k cri 96
		179...199	from 8000°k to 9000°k
		200...201	9000°k cri 93
		202...222	from 9000°k to 10000°k
		223...225	10000°k cri 95
	3200 ° k halogen lamp operation	226...255	halogen lamp dimming simulation
11	Color selection	0...15	No color
		16..23	red
		24...31	light red
		32...39	orange
		40...47	medium amber
		48...55	amber
		56...63	straw tint
		64...71	pale yellow
		72...79	spring yellow
		80...87	yellow
		88...95	lemon yellow
		96...103	lime
		104...111	lime green
		112...119	green
		120...127	moss green
		128...135	light cyan
		136...143	cyan
		144...152	peacock blue
		153...159	summer blue
		160...167	bright blue
		168...175	light steel blue
		176...183	light blue
		184...191	slate blue
		192...199	blue
		200...207	deep lavender
		208...215	lavender
		216...223	magenta
		224...231	rose pink
		232...239	dark pink
		240...247	bright pink
		248...255	FULL RGBACL
12	Fan speed	0..25	Auto speed or set from menu
		26..255	Fan speed from slow to fast

mode   2 ch

1	Color selection	0…15	No color
		16…20	red
		21…25	light red
		26…30	orange
		31…35	medium amber
		36…40	amber
		41…45	straw tint
		46…50	pale yellow
		51…55	spring yellow
		56…60	yellow
		61…65	lemon yellow
		66…70	lime
		71…75	lime green
		76…80	green
		81…85	moss green
		86…90	light cyan
		91…95	cyan
		96…100	peacock blue
		101…105	summer blue
		106…110	bright blue
		111…115	light steel blue
		116…120	light blue
		121…125	slate blue
		126…130	blue
		131…135	deep lavender
		136…140	lavender
		141…145	magenta
		146…150	rose pink
		151…155	dark pink
		156…160	bright pink
		161…165	Full RGBACL
	White selection	166…170	white 2300°k
		171…175	white 2700°k
		176…180	white 3200°k
		181…185	white 4000°k
		186…190	white 5600°k
		191…195	white 6500°k
		196…200	white 7000°k
		201…205	white 8000°k
		206…210	white 9000°k
		211…215	white 10000°k
	Rainbow	216…225	Rainbow from slow (191) to fast(229) Sequence rainbow R-G-B-A-C-L
	3200 ° k halogen lamp operation	226…255	halogen lamp dimming simulation
2	dimmer	0..255	From 0 to max 255

mode   16 ch RGBACL 16 bit

Ch	Function	dmx levels	
1	red	0..255	From 0 to max 255
2	Red fine	0..255	Red fine tune adjustment
3	green	0..255	From 0 to max 255
4	Green fine	0..255	Green fine tune adjustment
5	blue	0..255	From 0 to max 255
6	Blue fine	0..255	Blue fine tune adjustment
7	amber	0..255	From 0 to max 255
8	amber fine	0..255	amber fine tune adjustment
9	cyan	0..255	From 0 to max 255
10	cyan fine	0..255	cyan fine tune adjustment
11	lime	0..255	From 0 to max 255
12	lime fine	0..255	lime fine tune adjustment
13	strobe	0...15	Strobe disingaged
		16...255	Strobo from slow (16) to fast (255)
14	dimmer	0..255	From 0 to max 255
15	Dimmer fine	0..255	Adjustment of global fine light intensity
16	Fan speed	0..25	Auto speed or set from menu
		26..255	Fan speed from slow to fast

mode 6. ch RGBACL

Ch	Function	dmx levels	
1	red	0..255	From 0 to max 255
2	green	0..255	From 0 to max 255
3	blue	0..255	From 0 to max 255
4	amber	0..255	From 0 to max 255
5	cyan	0..255	From 0 to max 255
6	lime	0..255	From 0 to max 255

mode 6.RGB 6 ch

1	Red	0..255	From 0 to max 255
2	Green	0..255	From 0 to max 255
3	Blue	0..255	From 0 to max 255
4	Dimmer	0..255	From 0 to max 255
5	strobe	0...15	Strobe disingaged
		16...255	Strobo from slow (16) to fast (255)
6	Fan speed	0..24	Auto speed or set from menu
		25..255	Fan speed from slow to fast

mode 9 ch

Ch	Function	dmx levels	
1	red	0...255	From 0 to max 255
2	green	0...255	From 0 to max 255
3	blue	0...255	From 0 to max 255
4	amber	0...255	From 0 to max 255
5	cyan	0...255	From 0 to max 255
6	lime	0...255	From 0 to max 255
7	strobe	0...15	Strobo disingaged
		16...255	Strobo from slow (16) to fast (255)
8	Rainbow	0...15	Rainbow disingaged
		16...255	Rainbow from slow (16) to fast (255)
9	dimmer	0...255	From 0 to max 255

mode 6.HSI STUDIO 6 ch

1	Hue	0..255	Hue selection, following levels R, R+L, R+G+L, G+L,G, G+C,G+B+C, B+C, B B+A, R+B+A, R+A, R
2	Saturation	0..255	Color saturation with set color in the Hue channel
3	Dimmer	0..255	From 0 to max 255
4	strobo	0...15	Strobe disingaged
		16...255	Strobo from slow (16) to fast (255)
5 **(priority on** **channel 1)**	Selection whites	0...15	Whites off
		16...18	2300°k cri 93
		19...41	from 2300°k to 2700°k
		42...44	2700°k cri 97
		45...67	from 2700°k to 3200°k
		68...70	3200°k cri 98
		71...93	from 3200°k to 4000°k
		94...96	4000°k cri 95
		97...119	from 4000°k to 5600°k
		120...122	5600°k cri 98
		123...145	from 5600°k to 6500°k
		146...148	6500°k cri 95
		149...171	from 6500°k to 7000°k
		172...174	7000°k cri 93
		175...197	from 7000°k to 8000°k
		198...200	8000°k cri 96
		201...223	from 8000°k to 9000°k
		224...226	9000°k cri 93
		227...249	from 9000°k to 10000°k
		250...255	10000°k cri 95
6	Fan speed	0..24	Auto speed or set from menu
		25..255	Fan speed from slow to fast

mode 16.F RGBACL setting options

Ch	Function	Dmx levels	
1	red	0..255	From 0 to max 255
2	green	0..255	From 0 to max 255
3	blue	0..255	From 0 to max 255
4	amber	0..255	From 0 to max 255
5	cyan	0..255	From 0 to max 255
6	lime	0..255	From 0 to max 255
7	strobe	0...15	Strobo disingaged
		16...255	Strobo from slow (16) to fast (255)
8	Rainbow	0..15	Rainbow disingaged
		16..255	Rainbow from slow (16) to fast (255)
9	dimmer	0..255	From 0 to max 255
10 (priority on channel 11)	White selection	0...15	Deserted whites
		16...17	2300°k cri 93
		18...38	from 2300°k to 2700°k
		39...40	2700°k cri 97
		41...61	from 2700°k to 3200°k
		62...63	3200°k cri 98
		64...84	from 3200°k to 4000°k
		85...86	4000°k cri 95
		87...107	from 4000°k to 5600°k
		108...109	5600°k cri 98
		110...130	from 5600°k to 6500°k
		131...132	6500°k cri 95
		133...153	from 6500°k to 7000°k
		154...155	7000°k cri 93
		156...176	from 7000°k to 8000°k
		177...178	8000°k cri 96
		179...199	from 8000°k to 9000°k
		200...201	9000°k cri 93
		202...222	from 9000°k to 10000°k
		223...225	10000°k cri 95
	3200 ° k halogen lamp operation	226...255	halogen lamp dimming simulation
11	Color selection	0...15	No color
		16..23	red
		24...31	light red
		32...39	orange
		40...47	medium amber
		48...55	amber
		56...63	straw tint
		64...71	pale yellow
		72...79	spring yellow
		80...87	yellow
		88...95	lemon yellow
		96...103	lime
		104...111	lime green
		112...119	green
		120...127	moss green
		128...135	light cyan
		136...143	cyan
		144...152	peacock blue
		153...159	summer blue
		160...167	bright blue
		168...175	light steel blue
		176...183	light blue
		184...191	slate blue
		192...199	blue
		200...207	deep lavender
		208...215	lavender
		216...223	magenta
		224...231	rose pink
		232...239	dark pink
		240...247	bright pink
		248...255	FULL RGBACL
12	Fan speed	0..25	Auto speed or set from menu
		26..255	Fan speed from slow to fast

13	DMX data Speed adjustment	0..24	values selected from display
		25..74	SLOW
		75..124	MED
		125..174	FAST
		175..224	SFAST
		225..255	(reserved)
14	Dimming curves available	0..24	values selected from display
		25..74	qUAd
		75..124	SCUr
		125..174	qUAd2
		175..224	LInE
		225..255	(reserved)
15	Frequency Modulation (LED PWM Freq.)	0..39	values selected from display
		40..54	(reserved)
		55..69	PWM Frequency 1KHz
		70..84	PWM Frequency 2KHz
		85..99	PWM Frequency 3KHz
		100..114	PWM Frequency 4KHz
		115..129	PWM Frequency 5KHz
		130..144	PWM Frequency 6KHz
		145..159	PWM Frequency 7KHz
		160..174	PWM Frequency 8KHz
		175..189	PWM Frequency 9KHz
		190..204	PWM Frequency 10KHz
		205..219	(reserved)
		220..255	(reserved)
16	BOOST	0..24	values selected from display
		25..124	OFF
		125..224	ON
		225..255	(reserved)

Error messages

In case of malfunction, the following messages can be shown:
Led sensor error: the sensor on the led is faulty.
Overtemperature LED: the temperature on the LED exceeds the allowed limit, check if the fan is working.
Micro overtemperature: the temperature on the driver board exceeds the allowed limits, check if the fan is working.
Micro sensor error: the sensor on the driver board is faulty.
If these malfunctions occur, the LED turns off.
Avoid using the HPLED DE C6 and promptly contact any authorized service centre.

Periodical maintenance

To ensure the correct HPLED DE C6 operation, we suggest the following periodical maintenance operations:
Remove dust or any kind of other dirt from the fans and loop-holes, this operation ensures the correct air flow
Remove dust from lenses using a clean cloth. This will ensure the maximum light efficiency
Replace damaged protection screen and lenses when necessary.
Do not touch nor clean the LEDs nor the sourranded area with solvent

Device disposal information

At the end of its life, HPLED DE C6 must be disposed to an appropriate electrical and electronic equipment waste collection centre. Eco-friendly disposal, helps to avoid possible negative impact on the environment and human health and promotes the reuse and/or recycling of the materials making up the product. Illegal disposal involves administrative sanctions provided by laws enacted.

Note

Manufacture declines any sort of personal/corporate responsibility/liability for damages caused by people that are not scrupulously following indications given in this manual as for the inadequacy or for misuse of the product they do, as well as if the product has been handled by unqualified personnel. Not complying with security norms/periodical maintenance and all information contained and as expressed in the owner's/service manual will also totally free personal/corporate responsibility/liability.Text, wordings, drawings, specifications, modifications and other changes of this manual may apply anytime without notice. The specifications are not binding.

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