# Lites
# HPLED AR C6
## Colour RGBACL
## Retrofit for Fresnel Arri Studio 2000
## 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 AR 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 AR C6 from the box. Ensure HPLED AR C6 is received in all its parts. In the event the HPLED AR 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 AR unit
- N. 1 Ø 3 mm washers
- N. 1 M3 screws
- 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 AR C6 must be used and housed only and exclusively for the Arri Studio 2000 luminaire

**The HPLED AR C6 unit must NEVER be used unless it is housed in one of the models listed above. (Arri Studio 2000).**

HPLED AR 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 AR C6 unit must be housed in one of the Arri Studio 2000 luminaires listed above), the housing of the external fixture body, must be secured with suitable clamps, safety cords and adequate protection.
Install HPLED AR C6 in ventilated ambient which temperature must not exceed 35°C
HPLED AR C6 is NOT for domestic use, HPLED AR C6 can only be used for professional applications.
When HPLED AR C6 unit is operated, some outer parts of the luminere can reach temperatures of up to 60C°
HPLED AR C6 must be fitted with protection shields (Lense)
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 AR C6 is recommended. This practice avoids that layers of dust and other impurity jeopardise and reduce the correct operation of the unit. Lense must be cleaned to remove layers of dust that may impede and or reduce the passage of the light through the lense. The correct and periodically maintenance keeps also fans and vents clean thus keeping the HPLED AR 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 (Lense)

## ⚡ 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 AR C6**
Do not and never handle HPLED AR C6 with humid/wet hands or near to any water or any kind of moisture sources
Always connect HPLED AR C6 to mains fitted with safety device switch that cuts power off in case of danger
**The HPLED AR C6 does NOT and CAN NOT be operated via Phase control dimmer nor connected/operated in NON-DiM mode**
HPLED AR C6 is rated Class I
**Earth connection is mandatory!**

## CE Approvals

The HPLED AR 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 AR C6 from purchase's date. Warranty covers fabrication defects only. Warranty is immediately voided if the HPLED AR C6 has been handled by unqualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the HPLED AR 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 180W
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: 2,35 Kg
IP20 rating: To be housed into original Fresnel Arri Studio 2000 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
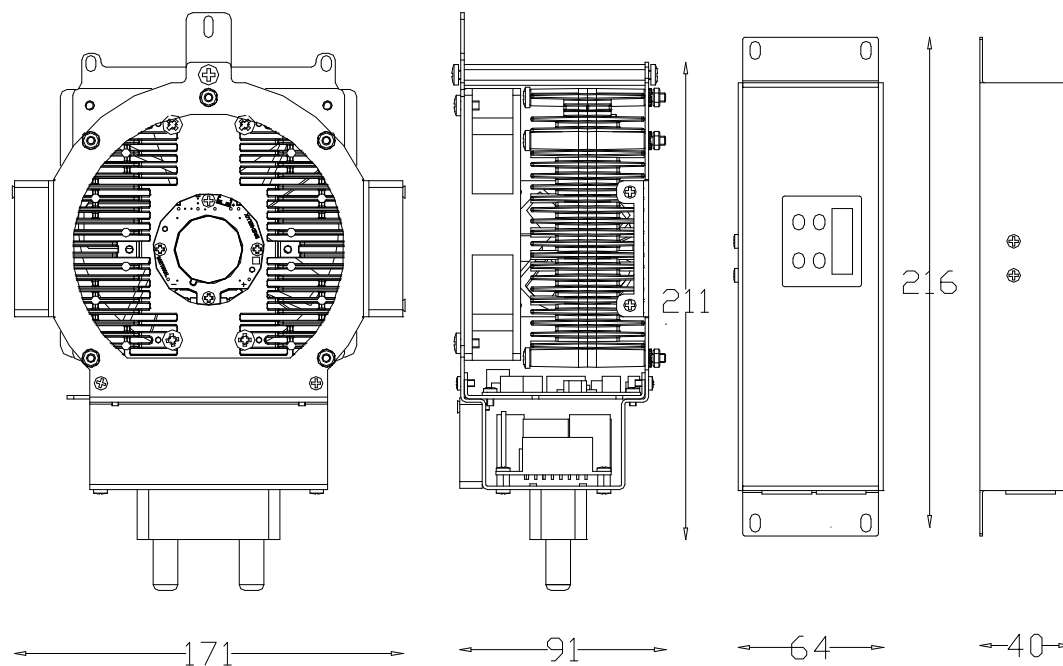Fan control: Fan speed adjustment
Control of LED frequency:         Selection of LED frequency refresh
4 Dimming curves control:         Selection of four dimming curves control
Compliant: CE
Dimensions (see picture):



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

The HPLED AR module is designed to replace the halogen lamps used in Fresnel Arri Studio 2000 projectors. Open the front door of the projector (see fig. 1). Use the zoom knob to slide the lamp holder carriage all the way forwards. Remove the reflector by unscrewing the 2 M4 screws (see fig. 2-3). Remove the side plate by unscrewing the 4 screws. (see fig. 4-5-6 ). Insert the module into the lamp holder and secure it by turning the lever in the lamp holder. Fix the module with the two M4 screws + toothed washer to the holes that previously supported the reflector (see fig. 7). Insert the cables of the module into the side bulkheads of the projector so that the cables protrude to the side (see fig.8-9). Connect the DMX cables and the display strip to the respective connectors. Secure the signal cables with the supplied cable tie. Screw the dmx display-connector box to the projector with the 4 M4 screws (see fig.10-11).

**Fig.1**

**Fig.2**

**Fig.3**

**Fig.4**

**Fig.5**

**Fig.6**

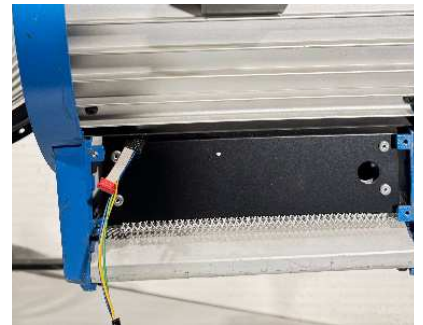**Fig.7**

**Fig.8**

**Fig.9**

**Fig.10**

**Fig.11**

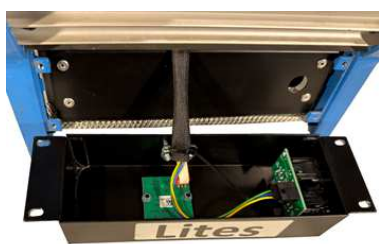**Fig.12**

**Connection to mains**

**<u>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</u>**

Power up the projector using the supplied cable.

**<u>WARNING:NEVER CONNECT HPLED RJ ENGINE TO ANGLE PHASE DIMMER PACK NOR TO NON-DIM MODE</u>**


**Signal control connection**

HPLED AR C6 can be operated via either DMX512A and or RDM ready Protocols. For Daisy chain DMX line use a-2 lead wire plus shield.
**<u>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.</u>**

| co | Collegamento 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).
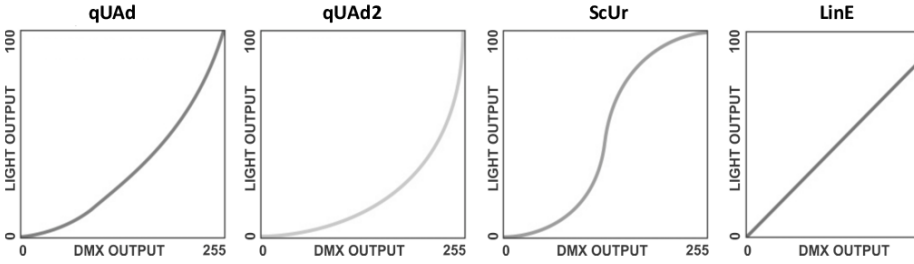It gives a flash of light from the LED. Model information (HPLED AR C6)
Software version information (HPLED II v.x.xx)
Mode to reveal temperatures of the LED and of the driver
Mode to reveal hour-meters of the LED and of the device

**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 | Program 1: 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. |
| | Pr02 | Program 2: auto | |
| | Pr03 | Program 3: auto | |
| | Pr04 | Program 4: auto | |

| | | |
|---|---|---|
| **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 |

| | | |
|---|---|---|
| | | 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** | FAST<br>MED<br>SLOW | DMX data Speed adjustment |
| **GAMM** | qUAd<br>SCUr<br>qUAd2<br>LInE | <br>Dimming curves available |
| **FrEq** | 1K<br>2K<br>3K<br>4K<br>5K<br>6K<br>7K<br>8K<br>9K<br>10K | LED operation frequence |
| **booS** | Off<br>on | When OFF, LED max flux : 90%<br>When ON, LED max flux : 100% |
| **FAn** | Aut<br>MEDH<br>MEDL<br>LOW | 4 fan operating modes i.e atuomatic, medium fast, medium slow, slow speed.<br>Fan speed adjujstments (fan-sound) reflect on self-correct  output LED brightness and other factors as room-temperature, number of engaged channels |
| **PoS** | AA<br>VV | Display orientation selection:<br>AA = normal<br>VV = inverted |
| **StbY** | Off<br>on | Standby display activity:<br>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 7 available modes it enables the number of  channels required, and its relevant modes, needed  to operate HPLED AR 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<br>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**<br>**(priority on**<br>**channel 1)** | Selection<br>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 |

**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 AR C6 and promptly contact any authorized service centre.

**Periodical maintenance**

To ensure the correct HPLED AR 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 AR 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.

HPLED AR C6 10/04/2024 rev.00