SPOTLIGHT
professional lighting for the performing arts

THE

user manual

rev. 28/03/2023

Tutti i fari Spotlight, a seconda della **sorgente LED** montata e della **potenza**, possono essere raggruppati in **6 famiglie** (rappresentate da **6 colori**).

<table>
<tr><th rowspan="2">LED Power</th><th rowspan="2">Powercon daisy chain</th><th rowspan="2">Cold start / Inrush current</th><th rowspan="2">Type</th><th colspan="4">LED Source</th></tr>
<tr><th>White</th><th>Tunable White</th><th>RGBW</th><th>6C</th></tr>
<tr><td>50W</td><td rowspan="5">Total load max 16A - 3,5KW</td><td rowspan="4">60A/230VAC</td><td>Fresnel PC Profile</td><td rowspan="4">1A
Firmware 1.09
DMX chart 1A</td><td rowspan="3"></td><td rowspan="3"></td><td rowspan="3"></td></tr>
<tr><td>85W</td><td>Downlight</td></tr>
<tr><td>100W</td><td>Fresnel PC Profile</td></tr>
<tr><td>200W</td><td>Fresnel PC Profile</td><td></td><td rowspan="3">3
Firmware 1.01
DMX chart 3</td><td></td></tr>
<tr><td>300W</td><td rowspan="2">80A/230VAC</td><td>Cyclorama</td><td></td><td></td><td></td></tr>
<tr><td></td><td>Fresnel PC Profile Followspot</td><td>1B
Firmware 1.03
DMX chart 1B</td><td>2
Firmware 1.06
DMX chart 2</td><td>4
Firmware 1.22
DMX chart 4</td></tr>
</table>

NOTA: Per una più rapida comprensione e navigazione del manuale si suggerisce di leggerlo in formato digitale o di stamparlo a colori.

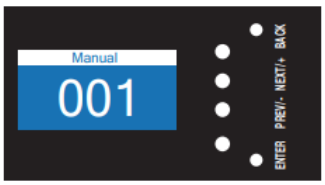
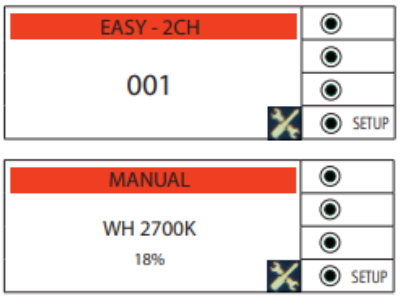
Part 1. General info

In questa sezione vengono definiti i comandi con i quali controllare l'apparecchio e le priorità che hanno i comandi tra loro, in base alle impostazioni.

When switched on, the installed software version is displayed, followed by the display of the default settings, ie the currently set operating mode.

<table>
<tr><th></th><th>White</th><th>White</th><th>TW</th><th>RGBW</th><th>6C</th></tr>
<tr><td>If the luminaire is DMX controlled, after 3 seconds the display will show the mode and DMX address.

Otherwise it will show the potentiometers status.

By pressing the ENTER (or SETUP) button you access the SETTINGS. With the PREV and NEXT buttons you can scroll the items list which in case of value type entries will have the function of increasing (+) or decreasing (-) the values.
The ENTER button allows to access the submenu and change the values which can be confirmed by pressing ENTER or canceled with the BACK button, which can be used also to exit the submenu and go back to the main menu.</td><td> 
</td><td colspan="4"> 
</td></tr>
</table>

All the luminaires are designed to be used in different operating modes:

- LOCAL POTENTIOMETER
- DMX
- RDM
- STAND ALONE (only for RGBW, 6C)

Input priority is given:

- in absence of the DMX signal the value set with the potentiometer will be active
- when there is the DMX signal the relevant signal is followed and the potentiometer will be ignored
- if the DMX signal is eliminated or lost, the DMX set level is kept until you act on the potentiometer, which will set the new value

All the fixtures are equipped with a temperature control of the LED and of the driver motherboard, which, to avoid an early deterioration in case of overtemperature, regulates the light intensity.

Some parameters can be modified directly into the fixture by using the SETTINGS menu or by using a consolle thanks to the DMX PERSONALITIES and related channels.

Part 2. Settings

In questa sezione vengono elencate le singole voci del menu o funzioni evidenziando, per ognuna di esse, a quali famiglie di apparecchi sono applicabili.

			Values	White 50-200	White 300-700	Tunable White	RGBW	6C	How to…
DMX SETTINGS	DMX ADDRESS		1 (default) - … - xxx	YES	YES	YES	YES	YES	How to set the DMX address and DMX personality
	DMX PERSONALITY		See related table	DMX chart 1A	DMX chart 1B	DMX chart 2	DMX chart 3	DMX chart 4	
	WIRELESS DMX	ACTIVATION	ON OFF (default)	-	YES	YES	YES	YES	
		UNLINK	ENTER to unlink ESC to exit	-	YES	YES	YES	YES	
STAND ALONE	STAND ALONE		DISABLED (default) STDALONE MANUAL STDALONE AUTO SCENE MASTER MANUAL MASTER AUTO SCENE SLAVE	-	-	-	YES	YES	How to set the stand alone function
	MANUAL MODE								
	AUTO SCENE MODE								
	CUSTOM PRESETS								
OPTIONS	LED DELAY		OFF - 50 - … - 1000 (default) - … - 2000ms	YES	YES	YES	YES	YES	How to emulate the performance of halogen lamp
	DIMMING CURVE		LINEAR HALO QUADRATIC (default)	YES	YES	YES	YES	YES	
	AMBER SHIFT		ON OFF (default)	-	-	-	-	YES	
	OUTPUT FREQUENCY		600 - 900 - 1200 (default) - 2100 - 4200 - 6000 - 10200 - 15600 - 19800 Hz	YES	YES	YES	YES	YES	How to remove flickering
	LED BOOST		ON OFF (default)	YES	-	YES	YES	YES	How to increase +20% light output
	FAN MODE		AUTO (default) STANDARD SILENT	YES	YES	YES	YES	YES	How to set the silent mode
	DISPLAY ROTATION		STANDARD (default) ROTATED	YES	YES	YES	YES	YES	How to set the display
	DISPLAY ON/OFF		ON (default) OFF	YES	YES	YES	YES	YES	
	LED CALIBRATION	RED	0..255 (default)	-	-	-	YES	YES	How to set LED calibration
		GREEN	0..255 (default)	-	-	-	YES	YES	
		BLU	0..255 (default)	-	-	-	YES	YES	
		WHITE	0..255 (default)	-	-	-	YES	-	
		AMBER	0..255 (default)	-	-	-	-	YES	
		CYAN	0..255 (default)	-	-	-	-	YES	
		LIME	0..255 (default)	-	-	-	-	YES	
	DEFAULT SET			YES	YES	YES	YES	YES	
	FACTORY SETTINGS			YES	YES	YES	YES	YES	
INFO	LED TEMPERATURE		°C	YES	YES	YES	YES	YES	
	LED TIME			YES	YES	-	-	-	
	RED LED TIME		hr - min	-	-	-	YES	YES	
	GREEN LED TIME		hr - min	-	-	-	YES	YES	
	BLU LED TIME		hr - min	-	-	-	YES	YES	
	WHITE LED TIME		hr - min	-	-	-	YES	-	
	AMBER LED TIME		hr - min	-	-	-	-	YES	
	CYAN LED TIME		hr - min	-	-	-	-	YES	
	LIME LED TIME		hr - min	-	-	-	-	YES	
	WARM WHITE TIME		hr - min	-	-	YES	-	-	
	COLD WHITE TIME		hr - min	-	-	YES	-	-	
	UNIT TIME		hr - min	YES	YES	YES	YES	YES	
	SOFTWARE VERSION		V. .... Release date	YES	YES	YES	YES	YES	

DEFAULT SETTINGS: It brings the parameters back to the "original built-in settings" (i.e. fan speed, dimming curve, delay…) as they came out from factory

FACTORY SETTINGS: Password-protected menu, used by Spotlight Tech. Dept to apply special settings (limit the current, working hours reset, limit the power consumption, …). These parameters do NOT affect the "default settings" NOTE: Not for final users

Part 3. DMX Personalities

Nelle sezioni successive vengono presentate le **Personalities**, ovvero le **DMX chart** disponibili per ciascun gruppo per consentire all'operature di scegliere in quale modalità far funzionare il faro in base ai parametri che si decide di controllare e al numero di canali disponibili sulla console che si sta utilizzando.

WHITE 50-100-200W

8 bit	1CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)

8 bit	2CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	STROBO	0 1..255	OFF from slow (3,86 s) to fast (30 ms)

16 bit	3CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	STROBO	0 1..255	OFF from slow (3,86 s) to fast (30 ms)

WHITE 300-700W

8 bit	1CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)

8 bit	3CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	STROBO & STORE	See related table	
3 ch	SERVICE	0..255	See related table

16 bit	6CH		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	DELAY	See related table	
4 ch	FAN	0..255	from minimum to maximum
5 ch	STROBO & STORE	See related table	
6 ch	SERVICE	See related table	

TUNABLE WHITE

8 bit	EASY		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	CCT LINEAR	See related table	

8 bit	SPLIT		
	Function	DMX value	Description
1 ch	DIMMER	0..255	GM - GENERAL MASTER
2 ch	WARM WHITE	0..255	from OFF (0) to full (255)
3 ch	COLD WHITE	0..255	from OFF (0) to full (255)
4 ch	STROBO & STORE	See related table	
5 ch	SERVICE	See related table	

16 bit	STUDIO		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	CCT PRESET	See related table	
4 ch	WW +/- correzione live del CCT STEP selezionato (= "zero point")	0..15 6..111 112..144 145..239 240..255	OFF from minimum to standard CCT STEP from standard to maximum OFF
5 ch	CW +/- correzione live del CCT STEP selezionato (= "zero point")	0..15 6..111 112..144 145..239 240..255	OFF from minimum to standard CCT STEP from standard to maximum OFF
6 ch	DELAY	See related table	
7 ch	FAN	0..255	from minimum to maximum
8 ch	STROBO & STORE	See related table	
9 ch	SERVICE	See related table	

16 bit	SPLIT		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	WARM WHITE	0..255	from OFF (0) to full (255)
4 ch	WARM WHITE FINE	0..255	from OFF (0) to full (255)
5 ch	COLD WHITE	0..255	from OFF (0) to full (255)
6 ch	COLD WHITE FINE	0..255	from OFF (0) to full (255)
7 ch	DELAY	See related table	
8 ch	FAN	0..255	from minimum to maximum
9 ch	STROBO & STORE	See related table	
10 ch	SERVICE	See related table	

16 bit	THEATRE FULL		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	CCT LINEAR	See related table	
4 ch	DELAY	See related table	
5 ch	FAN	0..255	from minimum to maximum
6 ch	STROBO & STORE	See related table	
7 ch	SERVICE	See related table	

RGBW

8 bit	EASY		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	CCT PRESET	See related table	
3 ch	COLOUR PRESET	See related table	

Note: CCT PRESET has priority over COLOUR PRESET

8 bit	HSI		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	HUE	0..255	Sequence: R, R+G, G, G+B, B, B+R, R
3 ch	HUE FINE	0..255	Selection of the colour - fine
4 ch	SATURATION	0..255	Color saturation - from the HUE preset towards the choosen white in the CCT Color Point (COLOR POINT CCT - ALWAYS ACTIVE)
6 ch	STROBO & STORE	See related table	
7 ch	SERVICE	See related table	

8 bit	CMY		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	CYAN	0..255	from OFF (0) to full (255)
3 ch	MAGENTA	0..255	from OFF (0) to full (255)
4 ch	YELLOW	0..255	from OFF (0) to full (255)
5 ch	STROBO & STORE	See related table	
6 ch	SERVICE	See related table	

8 bit	RGBW		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	RED	0..255	from OFF (0) to full (255)
3 ch	GREEN	0..255	from OFF (0) to full (255)
4 ch	BLUE	0..255	from OFF (0) to full (255)
5 ch	WHITE	0..255	from OFF (0) to full (255)
6 ch	CCT PRESET	See related table	
7 ch	COLOUR PRESET	See related table	
8 ch	STROBO & STORE	See related table	
9 ch	SERVICE	See related table	

16 bit	FULL		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	RED	0..255	from OFF (0) to full (255)
4 ch	RED FINE	0..255	from OFF (0) to full (255)
5 ch	GREEN	0..255	from OFF (0) to full (255)
6 ch	GREEN FINE	0..255	from OFF (0) to full (255)
7 ch	BLUE	0..255	
8 ch	BLUE FINE	0..255	
9 ch	WHITE	0..255	
10 ch	WHITE FINE	0..255	
11 ch	COLOUR PRESET	See related table	
12 ch	CCT PRESET	See related table	
13 ch	DELAY	See related table	
14 ch	FAN	0..255	from minimum to maximum
15 ch	STROBO & STORE	See related table	
16 ch	SERVICE	See related table	

6 COLOURS

8 bit	EASY		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	COLOUR PRESET	See related table	
3 ch	CCT PRESET	See related table	

Note: CCT PRESET has priority over COLOUR PRESET

8 bit	HSIC		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	HUE	0..255	Sequence: 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
3 ch	HUE FINE	0..255	Selection of the colour - fine
4 ch	SATURATION (to dim the channel of CCT LINEAR)	0..255	
5 ch	CCT LINEAR	See related table	
6 ch	STROBO & STORE	See related table	
7 ch	SERVICE	See related table	

8 bit	RGBACL		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	RED	0..255	from OFF (0) to full (255)
3 ch	GREEN	0..255	from OFF (0) to full (255)
4 ch	BLUE	0..255	from OFF (0) to full (255)
5 ch	AMBER	0..255	from OFF (0) to full (255)
6 ch	CYAN	0..255	from OFF (0) to full (255)
7 ch	LIME	0..255	from OFF (0) to full (255)
8 ch	STROBO & STORE	See related table	
9 ch	SERVICE	See related table	

16 bit	STUDIO		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	RED	0..255	from OFF (0) to full (255)
4 ch	RED FINE	0..255	from OFF (0) to full (255)
5 ch	GREEN	0..255	from OFF (0) to full (255)
6 ch	GREEN FINE	0..255	from OFF (0) to full (255)
7 ch	BLUE	0..255	from OFF (0) to full (255)
8 ch	BLUE FINE	0..255	from OFF (0) to full (255)
9 ch	AMBER	0..255	from OFF (0) to full (255)
10 ch	AMBER FINE	0..255	from OFF (0) to full (255)
11 ch	CYAN	0..255	from OFF (0) to full (255)
12 ch	CYAN FINE	0..255	from OFF (0) to full (255)
13 ch	LIME	0..255	from OFF (0) to full (255)
14 ch	LIME FINE	0..255	from OFF (0) to full (255)
15 ch	COLOUR PRESET	See related table	
16 ch	CCT STEPS	See related table	
17 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
18 ch	DELAY	See related table	
19 ch	FAN	0..255	from minimum to maximum
20 ch	STROBO & STORE	See related table	
21 ch	SERVICE	See related table	

16 bit	THEATRE		
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	DIMMER FINE	0..255	from OFF (0) to full (255)
3 ch	RED	0..255	from OFF (0) to full (255)
4 ch	RED FINE	0..255	from OFF (0) to full (255)
5 ch	GREEN	0..255	from OFF (0) to full (255)
6 ch	GREEN FINE	0..255	from OFF (0) to full (255)
7 ch	BLUE	0..255	from OFF (0) to full (255)
8 ch	BLUE FINE	0..255	from OFF (0) to full (255)
9 ch	AMBER	0..255	from OFF (0) to full (255)
10 ch	AMBER FINE	0..255	from OFF (0) to full (255)
11 ch	CYAN	0..255	from OFF (0) to full (255)
12 ch	CYAN FINE	0..255	from OFF (0) to full (255)
13 ch	LIME	0..255	from OFF (0) to full (255)
14 ch	LIME FINE	0..255	from OFF (0) to full (255)
15 ch	COLOUR PRESET	See related table	
16 ch	SATURATION (to dim the channel of CCT LINEAR)	0..255	from OFF (0) to full (255)
17 ch	CCT LINEAR	See related table	
18 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
19 ch	DELAY	See related table	
20 ch	FAN	0..255	from minimum to maximum
21 ch	STROBO & STORE	See related table	
22 ch	SERVICE	See related table	

Note: CCT LINEAR has priority over COLOUR PRESET has priority over manual selected colours (from channel 3 to 14)

Part 4. Related tables

SERVICE CHANNEL

Permette di modificare tutte le impostazioni da remoto (console) che normalmente si impostano manualmente dal menu STAND ALONE and OPTIONS del faro

					White	White	TW	RGBW	6C
SERVICE 1 (RGBW, 6C)	STAND ALONE (here you create)	CUSTOM PRESETS	0..5 6..30 31..55 56..80 81..105 106..130 131..155 156..180 181..205 206..230 231..255	OFF CUSTOM PRESET 1 CUSTOM PRESET 2 CUSTOM PRESET 3 CUSTOM PRESET 4 CUSTOM PRESET 5 CUSTOM PRESET 6 CUSTOM PRESET 7 CUSTOM PRESET 8 CUSTOM PRESET 9 CUSTOM PRESET 10	-	-	-	YES	YES
SERIVCE (White 300-700, TW) or SERVICE 2 (RGBW, 6C)	OPTIONS (here you set)		0..5	INACTIVE					
		LED DELAY	6..11 12..17 18..23 24..29 30..35 36..41 42..47 48..53 54..59 60..65 66..71	OFF 50 ms 100 ms 240 ms 400 ms 600 ms 800 ms 1000 ms (default) 1200 ms 1600 ms 2000 ms	-	YES	YES	YES	YES
		DIMMING CURVE	72..77 78..83 84..89	LINEAR HALO (default) QUADRATIC	-	YES	YES	YES	YES
		OUTPUT FREQUENCY	90..95 96..101 102..107 108..113 114..119 120..125 126..131 132..137 138..143	600 Hz 900 Hz 1200 Hz (default) 2100 Hz 4200 Hz 6000 Hz 10200 Hz 15600 Hz 19800 Hz	-	YES	YES	YES	YES
		LED BOOST	144..149 150..155	ON OFF (default)	-	YES	YES	YES	YES
		FAN MODE	156..161 162..167 168..173	AUTO (default) STANDARD SILENT	-	YES	YES	YES	YES
		DISPLAY ROTATION DISPLAY ON/FF	174..179 180..185 186..191 192..197	STANDARD (default) ROTATED OFF ON (default)	-	YES	YES	YES	YES
		LED CALIBRATION	198..203	COLOUR CALIBRATION (for all) NO FUNCTION (for White 300-700)	-	YES	YES	YES	YES
		DEFAULT SETTINGS	204..209	DEFAULT SETTINGS	-	YES	YES	YES	YES
		(for future use)	210..255	FREE	-	YES	YES	YES	YES

STROBE & STORE CHANNEL

				White	White	TW	RGBW	6C
STROBE & STORE	STROBE	0 1..150 151..200	OFF from slow (3,86 s) to fast (30 ms) OFF	-	YES	YES	YES	YES
	STORE 1 (here you save what you created in SERVCE 1)	201..210 211..230	Once created the desired CUSTOM PRESET, keep on hold for 5 seconds to store the new value. OFF	-	-	-	YES	YES
	STORE 2 (here you save what you set in SERVICE / SERVICE 2)	231..240 241..255	Once set the desired OPTION, keep on hold for 5 seconds to store the new value. OFF	-	YES	YES	YES	YES

CCT CHANNEL

		Tunable White		RGBW	6C		
		LINEAR	PRESET	PRESET	LINEAR	STEP	PRESET
NONE		-	-	0..15	-	0.. 4	0..4
1500K		-	-	-	0.. 0..	5.. 7	5.. 11
1500K-1600K		-	-	-	1.. 7..	8.. 11	-
1600K		-	-	-	8.. 8..	12.. 14	12.. 18
1600K-1700K		-	-	-	9.. 15	15.. 18	-
1700K		-	-	-	16.. 16	19.. 21	19.. 25
1700K-1800K		-	-	-	17.. 23	22.. 25	-
1800K		-	-	-	24.. 24	26.. 28	26.. 32
1800K-1900K		-	-	-	25.. 31	29.. 32	-
1900K		-	-	-	32.. 32	33.. 35	33.. 39
1900K-2000K		-	-	-	33.. 39	36.. 39	-
2000K		-	-	-	40.. 40	40.. 42	40.. 46
2000K-2100K		-	-	-	41.. 47	43.. 46	-
2100K		-	-	-	48.. 48	47.. 49	47.. 53
2100K-2200K		-	-	-	49.. 55	50.. 53	-
2200K		-	-	-	56.. 56	54.. 56	54.. 60
2200K-2300K		-	-	-	57.. 63	57.. 60	-
2300K		-	-	-	64.. 64	61.. 63	61.. 67
2300K-2400K		-	-	-	65.. 71	64.. 67	-
2400K		-	-	-	72.. 72	68.. 70	68.. 74
2400K-2500K		-	-	-	73.. 79	71.. 74	-
2500K		-	-	-	80.. 80	75.. 77	75.. 81
2500K-2600K		-	-	-	81.. 86	78.. 81	-
2600K		-	-	-	87.. 87	82.. 84	82.. 88
2600K-2700K		-	-	-	88.. 93	85.. 88	-
2700K		0	0..35	16..45	94.. 94	89.. 91	89.. 95
2700K-3000K	2700K-2800K	1..41	-	-	95.. 100..	92.. 95	-
	2800K				101.. 101	96.. 98	96.. 102
	2800K-2900K				102.. 107	99.. 102	-
	2900K				108.. 108	103.. 105	103.. 109
	2900K-3000K				109.. 114	106.. 109	-
3000K		42	36..70	46..75	115.. 115	110.. 112	110.. 116
3000K-3200K	3000K-3100K	43..83	-	-	116.. 121	113.. 116	-
	3100K				122.. 122	117.. 119	117.. 123
	3100K-3200K				123.. 128	120.. 123	-
3200K (default)		84	71..105	76..105	129.. 129	124.. 126	124.. 130
3200K-3500K	3200K-3300K	85..125	-	-	130.. 135	127.. 130	-
	3300K				136.. 136	131.. 133	131.. 137
	3300K-3400K				137.. 142	134.. 137	-
	3400K				143.. 143	138.. 140	138.. 144
	3400K-3500K				144.. 149	141.. 144	-
3500K		126	106..140	106..135	150.. 150	145.. 147	145.. 151
3500K-4000K		127..168	-	-	151.. 156	148.. 151	-
4000K		169	141..175	136..165	157.. 157	152.. 154	152.. 158
4000K-5600K	4000K-5000K	170..211	-	-	158.. 163	155.. 158	-
	5000K				164.. 164	159.. 161	159.. 165
	5000K-5600K				165.. 170	162.. 165	-
5600K		212	176..210	166..195	171.. 171	166.. 168	166.. 172
5600K-6500K	5600K-6000K	213..254	-	-	172.. 177	169.. 172	-
	6000K				178.. 178	173.. 175	173.. 179
	6000K-6500K				179.. 184	176.. 179	-
6500K		255	211..225	196..225	185.. 185	180.. 182	180.. 186
6500K-8000K		-	-	-	186.. 191	183.. 186	-
8000K		-	-	226..255	192.. 192	187.. 189	187.. 193
8000K-10000K		-	-	-	193.. 198	190.. 193	-
10000K		-	-	-	199.. 199	194.. 196	194.. 200
10000K-12000K		-	-	-	200.. 205	197.. 200	-
12000K		-	-	-	206.. 206	201.. 203	201.. 207
12000K-14000K		-	-	-	207.. 212	204.. 207	-
14000K		-	-	-	213.. 213	208.. 210	208.. 214
14000K-15000K		-	-	-	214.. 219	211.. 214	-
15000K		-	-	-	220.. 220	215.. 217	215.. 221
15000K-16000K		-	-	-	221.. 226	218.. 221	-
16000K		-	-	-	227.. 227	222.. 224	222.. 228
16000K-17000K		-	-	-	228.. 233	225.. 228	-
17000K		-	-	-	234.. 234	229.. 231	229.. 235
17000K-180000K		-	-	-	235.. 240	232.. 235	-
18000K		-	-	-	241.. 241	236.. 239	236.. 242
18000K-190000K		-	-	-	242.. 247	240.. 243	-
19000K		-	-	-	248.. 248	244.. 247	243.. 249
19000K-20000K		-	-	-	249.. 254	248.. 251	-
20000K		-	-	-	255.. 255	252.. 255	250.. 255

COLOUR CHANNEL

				White	White	TW	RGBW	6C
COLOUR PRESET		0..35	NONE	-	-	-	YES	YES
	STANDARD PRESETS (here you can use)	36..39	RED	-	-	-	YES	YES
		40..43	GREEN					
		44..47	BLUE					
		48..51	CYAN					
		52..55	YELLOW					
		56..59	MAGENTA					
		60..63	LEE 004 - MEDIUM BASTARD AMBER	-	-	-	YES	YES
		64..67	LEE 019 - FIRE					
		68..71	LEE 026 - BRIGHT RED					
		74..75	LEE 058 - LAVENDER					
		76..79	LEE 068 - SKY BLUE					
		80..83	LEE 071 - TOKYO BLUE					
		84..87	LEE 101 - YELLOW					
		88..91	LEE 102 - LIGHT AMBER					
		92..95	LEE 103 - STRAW					
		96..99	LEE 106 - PRIMARY RED					
		100..103	LEE 111 - DARK PINK					
		104..107	LEE 115 - PEACOCK BLUE					
		108..111	LEE 116 - MEDUM BLUE-GREEN					
		112..115	LEE 117 - STEEL BLUE					
		116..119	LEE 119 - DARK BLUE					
		120..123	LEE 124 - DARK GREEN					
		124..127	LEE 126 - MAUVE					
		128..131	LEE 128 - BRIGHT PINK					
		132..135	LEE 131 - MARINE BLUE					
		136..139	LEE 132 - MEDIUM BLUE					
		140..143	LEE 134 - GOLDEN AMBER					
		144..147	LEE 136 - PALE LAVENDER					
		148..151	LEE 138 - PALE GREEN					
		152..155	LEE 147 - APRICOT					
		156..159	LEE 154 - PALE ROSE					
		160..163	LEE 158 - DEEP ORANGE					
		164..167	LEE 165 - DAYLIGHT BLUE					
		168..171	LEE 169 - LILAC TINT					
		172..175	LEE 180 - DARK LAVENDER					
		176..179	LEE 201 - FULL CT BLUE					
		180..183	LEE 202 - HALF CT BLUE					
		184..187	LEE 203 - QUARTER CT BLUE					
		188..191	LEE 204 - FULL CT ORANGE					
		192..195	LEE 205 - HALF CT ORANGE					
		196..199	LEE 206 - QUARTER CT ORANGE					
		200..203	LEE 247 - FILTER MINUS GREEN					
		204..207	LEE 248 - HALF MINUS GREEN					
		208..211	LEE 778 - MILLENIUM GOLD					
		212..215	LEE 793 - VANITY FAIR					
	CUSTOM PRESETS (here you can use)	216..219	CUSTOM PRESET 1	-	-	-	YES	YES
		220..223	CUSTOM PRESET 2					
		224..227	CUSTOM PRESET 3					
		228..231	CUSTOM PRESET 4					
		232..235	CUSTOM PRESET 5					
		236..239	CUSTOM PRESET 6					
		240..243	CUSTOM PRESET 7					
		244..247	CUSTOM PRESET 8					
		248..251	CUSTOM PRESET 9					
		252..255	CUSTOM PRESET 10					

DELAY CHANNEL

			White	White	TW	RGBW	6C
DELAY	0..45	NONE (The LED delay follows the set on the menu display)	-	YES	YES	YES	YES
	46..55	0 ms					
	56..65	50 ms					
	66..75	100 ms					
	76..85	150 ms					
	86..95	200 ms					
	96..105	240 ms					
	106..115	300 ms					
	116..125	350 ms					
	126..135	400 ms					
	136..145	450 ms					
	146..155	500 ms					
	156..165	330 ms					
	166..175	600 ms					
	176..185	800 ms					
	186..195	900 ms					
	196..205	1000 ms					
	206..215	1200 ms					
	216..225	1400 ms					
	226..235	1600 ms					
	236..245	1800 ms					
	246..255	2000 ms					

Part 5. RDM (Remote Device Management)

Questa sezione riporta i valori che possono essere interrogati da remoto attraverso consolle RDM.

Plasa/ESTA Denomination	Number of Channels
DEVICE_INFO	Reading of the following parameters: - RDM protocol version - Device Model ID - Product category - ID version sw - Number of DMX channels - DMX mode index - DMX address - Number of sub-devices - Number of sensors
IDENTIFY_DEVICE	LED power on - allowing fixture identification
DMX_START_ADDRESS	DMX address setting/reading
SOFTWARE_VERSION_LABEL	Text description version sw
SUPPORTED_PARAMETERS	List of supported parameters
DMX_PERSONALITY	DMX mode setting
DMX_PERSONALITY_DESCRIPTION	Obtaining textual description of DMX mode
DEVICE_MODEL_DESCRIPTION	Text description of the device model
MANUFACTURER_LABEL	Text description manufacturer
SENSOR_DEFINITION SENSOR_VALUE	Display of the values read by the temperature sensor, expressed in tenths of Celsius degree

Part 6. How to

In questa sezione sono riportate le principali necessità di un operatore luci e come settare le singole funzioni dei fari.

HOW TO SET DMX ADDRESS AND TO CHOOSE DMX PERSONALITY (DMX CHART)

In order to control one or more fixtures via console, it is necessary to assign each one a DMX address and choose a DMX chart based on the parameters of the luminaire you want to control and the channels available on the console. At the first fixture, channel 1 is allocated and occupies as many channels as indicated in the chosen DMX chart.

Per poter comandare uno o più fari tramite consolle è necessario attribuire a ciascuno un indirizzo DMX e scegliere una DMX chart in base ai parametri del faro che si desidera controllare e ai canali disponibili sulla consolle. Al primo faro si attribuisce il canale 1 ed esso occupa tanti canali quanti sono quelli indicati nella DMX chart scelta.

DMX SETTINGS => DMX ADDRESS = 001

DMX SETTINGS => DMX PERSONALITY = 3ch (example)

If the second spotlight is given the same channel and the same personality, it will behave like the first spotlight; otherwise it is necessary to give it the first free channel as an address and choose how to work it.

Se al secondo faro si attribuisce lo stesso canale e la stessa personalità, esso si comporterà come il primo faro. Diversamente affinchè abbia una propria identità distinta e per poterlo controllare separatamente, è necessario attribuirgli come indirizzo il primo canale libero e scegliere anche per lui in quale modalità farlo lavorare.

DMX SETTINGS => DMX ADDRESS = 004

DMX SETTINGS => DMX PERSONALITY = xxx

HOW TO EMULATE THE PERFORMANCE OF HALOGEN LAMP

To satisfy the most "nostalgic" light designers of halogen light and to approach the natural perception that the human eye has of an LED illuminated object, it is not enough that static light simulates halogen light, but that it is also in its dynamic regulation.

Per soddisfare i light designers più "nostalgici" della luce alogena e per avvicinarsi alla naturale percezione che l'occhio umano ha di un oggetto illuminato a LED non basta che la luce statica simuli la luce alogena, ma che lo sia anche nella sua regolazione dinamica.

For an LED luminaire to behave like a halogen lamp 3 are the points to consider:

- the **dimmer curve** must be set as HALO
  *la **curva dimmer** HALO che rappresenta l'inerzia con cui la luce viene restituita dalla sorgente in funzione del segnale che riceve*
  OPTIONS → AMBER SHIFT = ON

- the **delay** should be adjusted to 1000 ms
  *il **delay**, vale a dire il "ritardo" con cui un filamento inizia ad emette luce dopo che riceve lo stimolo elettrico*
  OPTIONS → LED DELAY = 1000ms

- the **amber shift** function must be activated (typical change to which a halogen lamp tends when dimmed decreasing the emission)
  *l'**effetto amber shift**, tipico viraggio a cui tende una lampada alogena quando viene dimmerata diminuendone l'emissione*
  OPTIONS → DIMMING CURVE = HALO

- mandatory: DMX PERSONALITY / CCT PRESET = 3200K

HOW TO INCREASE THE LIGHT OUTPUT +20%

All the fixtures are designed to work in a context of balance between luminous efficiency and optimal thermal regime so as not to cause the LED to work under stress. Where available, thanks to the LED BOOST function, the algorithm favors luminous efficiency (+20% in light output) to the detriment of thermal efficiency, giving more current to the LED, but it is exclusively compatible with FAN MODE = AUTO (= the fans are automatically adjusted based on the LED temperature). That means that, even with this function active, the LED TEMPERATURE function regulates the light intensity in case of overtemperature to avoid an early deterioration of the source.

It may happen that you need a light emission of the individual channels higher than the factory settings, without however exceeding the maximum power of the spotlight. When a tint or a CCT value is selected in which not all channels are at full, an algorithm increases the light output to achieve maximum efficiency. A microprocessor monitors the working temperature of the LED and updates the source control parameters in real time.

Tutti gli apparecchi sono progettati per lavorare in un contesto di equilibrio tra efficienza luminosa e regime termico ottimale in modo da non far lavorare sotto stress il LED. Dove disponibile, grazie alla funzione LED BOOST, l'algoritmo favorisce l'efficienza luminosa (+20% in resa luminosa) a discapito dell'efficienza termica, dando più corrente al LED, ma è compatibile esclusivamente con FAN MODE = AUTO (= il le ventole vengono regolate automaticamente in base alla temperatura del LED). Ciò significa che, anche con questa funzione attiva, la funzione TEMPERATURA LED regola l'intensità luminosa in caso di sovratemperatura per evitare un deterioramento precoce della sorgente.

Può capitare di avere la necessità di un'emissione luminosa dei singoli canali superiore alle impostazioni di fabbrica senza però superare la potenza massima dell'apparecchio. Quando viene selezionata una tinta o un valore di CCT in cui non tutti i canali sono a full, un algoritmo incrementa l'emissione luminosa per raggiungere la massima efficienza. Un microprocessore monitora la temperatura di lavoro del LED ed aggiorna in tempo reale i parametri di controllo della sorgente.

OPTIONS -> FAN MODE = AUTO

OPTIONS -> LED BOOST = ON

HOW TO SET THE FAN MODE

In order to function properly, the LED requires a cooling system, which can be passive (dissipation of heat by natural convection) or active (forced dissipation of heat using a fan).

FAN MODE:

- AUTO: the fans are automatically adjusted based on the LED temperature.(where variable fan noise is not a critical parameter)
- STANDARD: the fans are always kept at the default value (where a constant background noise is required without varying brightness)
- SILENT: the fans are always kept at the minimum value and in case of critical temperatures of the LED it automatically reduces the brightness

The **silent mode** function allows to intervene on the speed and therefore on the noise of the fans based on the internal temperatures of work detected by a thermostat

Il LED per poter funzionare correttamente necessita di un sistema di raffreddamento, che può essere passivo (dissipazione del calore per convezione naturale) o attivo (dissipazione forzata del calore utilizzando una ventola).

FAN MODE:

- *AUTO: le ventole vengono regolate automaticamente in base alla temperatura del LED (quando il rumore variabile della ventola non è un parametro critico)*
- *STANDARD: le ventole sono sempre mantenute al valore di default (quando è richiesto un rumore di fondo costante senza variazioni di luminosità)*
- *SILENT: le ventole sono mantenute sempre al valore minimo ed in caso di temperature critiche del LED riduce automaticamente la luminosità*

*La funzione **silent mode** permette di intervenire sulla velocità e quindi sulla rumorosità di queste ventole: un algoritmo rileva le temperature interne da termostato e ne controlla la corrente per garantire al faro un funzionamento continuo, prevenendone danneggiamenti o spegnimenti.*

OPTIONS → FAN MODE = SILENT

HOW TO SET THE DISPLAY

To avoid unwanted light emission of the display you can turn it off.

Per evitare emissioni luminose indesiderate del display è possibile spegnerlo.

OPTIONS → DISPLAY = OFF

If the fixture is mounted "upside down" it is also possible to rotate the display to make it easier to read.

Qualora il faro venisse montato "sotto-sopra" è anche possibile ruotare il display per facilitarne la lettura.

OPTIONS → DISPLAY ROTATION = ROTATED

HOW TO REMOVE FLICKERING EFFECT IN CAMERAS

The flickering effect is manifested in the shooting when the emission frequency of the LED conflicts with the camera brush scan and can be solved by acting on the camera parameters or on the fixture parameters.

Quando si riprende uno spettacolo con delle telecamere o anche semplicemente con la videocamera dello smartphone è possibile che nella ripresa compaiano delle fastidiose oscillazioni (flickering) sullo schermo dovute al conflitto di frequenze tra l'emissione della luce LED e la scansione del pennello della videocamera ricevente. Questo conflitto può essere risolto agendo sui parametri della videocamera oppure sui parametri del faro.

OPTIONS → OUTPUT FREQUENCY = xxx (find by trial and error - fine adjustment - the value that removes the flicker in the camera)

HOW TO HOW TO CALIBRATE LED COLORS

When using a group of fixtures it may happen that one or more of them, with the same DMX values, has a color component (eg: red) to be corrected to align the tint to the other luminaires. Simply enter the fixture menu and adjust the DMX value until the tint aligns with that of the other luminaires of the group.

Si tratta di una funzione che consente di uniformare la curva spettrometrica di più apparecchi, intervenendo sul contributo del singolo colore dei componenti dell'array.
Quando si utilizza un gruppo di fari può capitare che uno o più di essi, a parità di valori DMX, abbia una componente di colore (es: rosso) da correggere per uniformare la tinta agli altri fari. È sufficiente entrare nel menù del faro nella sezione e regolare il valore DMX finchè la tinta non si allinea a quella degli altri fari del gruppo.

LED CALIBRATION → RED CALIBRATION

HOW TO SET THE COLOUR CUSTOM PRESETS

In each color Hyperion series fixture there are two libraries:

- the first factory (STANDARD PRESETS) and
- the second customizable by the operator (CUSTOM PRESETS) which includes a storage phase and a playback. Both of these presets can be recalled by selecting the relevant DMX value or by turning the potentiometer

There are two ways to customize the CUSTOM PRESET:

with fixture display:

- SETTINGS –> STAND ALONE –> CUSTOM PRESETS –> CUSTOM PRESET 1
- set the desired color by changing the values of the individual colors by turning the dimmer
- click on the CONFIRM button for the final save
- wait 5 seconds and the 5 flashes confirming that saving has taken place

with DMX consolle:

- modify the DMX value of the SERVICE 1 channel until reaching the range of the parameter to be modified (e.g. CUSTOM PRESET 1) and leave the channel on this value
- set the desired tint by acting on the individual color channels
- save the tint by setting the DMX value of the STROBE & STORE channel in the range corresponding to STORE 1
- wait 5 seconds and the 5 flashes confirming that saving has taken place

In ogni faro della serie Hyperion a colori è disponibile:

- *una libreria precaricata (STANDARD PRESETS) e*
- *una personalizzabile da parte dell'operatore (CUSTOM PRESET) che prevede una prima fase di creazione ed una successiva di utilizzo*

Entrambi questi preset si possono richiamare selezionando il relativo valore DMX oppure ruotando il potenziometro.

Per personalizzare i CUSTOM PRESET esistono due modi:

da display del faro:

- SETTINGS –> STAND ALONE –> CUSTOM PRESETS –> CUSTOM PRESET 1
- *impostare la tinta desiderata modificando i valori dei singoli colori ruotando l'encoder del dimmer*
- *cliccare sul tasto CONFIRM per il salvataggio finale*
- *attendere 5 secondi e i flash di conferma dell'avvenuto salvataggio*

da remoto utilizzando una consolle DMX:

- *modificare il valore DMX del canale SERVICE 1 fino al raggiungimento del range del parametro da modificare (es. CUSTOM PRESET 1) e lasciare il canale su questo valore*
- *impostare la tinta desiderata agendo sui canali dei singoli colori*
- *salvare la tinta impostando il valore DMX del canale STROBE & STORE nel range corrispondente a STORE 1*
- *attendere 5 secondi e i flash di conferma dell'avvenuto salvataggio*

FUNZIONI AVANZATE SULLA GESTIONE DEL COLORE

- **Plus/Minus Green** – si tratta di una funzione che consente una regolazione fine della componente verde del CCT selezionato per adeguarlo alle specifiche esigenze dell'applicazione.

- **Bilanciamento automatico** del colore durante l'intera dimmerazione per mantenere la stessa tinta quando diminuisce l'emissione di luce; l'algoritmo consente di:
  - mantenere fissa la lunghezza d'onda di ogni singolo chip LED colorato
  - mantenere costante il rapporto delle emissioni luminose tra i LED di diverso colore al variare dell'emissione luminosa

- **Booster**

- **Calibrazione**

HOW TO SET STAND-ALONE AND MASTER-SLAVE FUNCTIONS

May happen the need to control one or more fixtures without using a console. The software allows you to create one or more static colors and define the duration and sequence of each.

- to create a single static tint
  STANDALONE => STANDALONE = MANUAL

- create multiple static colors with customizable duration and sequence
  STANDALONE => STANDALONE = AUTO SCENE

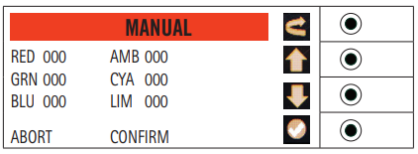
The function can be set on a single fixture or on a group of fixtures. In this second case it is necessary to define the headlight "master" (MASTER, MANUAL or AUTO SCENE) and the headlights "slave" (SLAVE).

To disable these control modes in the absence of consoles simply reconnect the DMX cable and the fixtures will be controllable directly from remote.Tutto questo può riguardare un singolo faro (STAND ALONE) oppure un gruppo di fari nel quale è necessario però definire il faro “master” (MASTER) e i fari “slave” (SLAVE).

- DISABLED: The luminaire is controlled by the DMX input and by the potenziometer.
- STDALONE MANUAL: The luminaire ignores the DMX signal and the potenziometer. The colour can be set from the STANDALONE → MANUAL MODE
- STDALONE AUTO SCENE: The luminaire ignores the DMX signal and the potenziometer and performs the memorised scenes sequence (max 10 scenes) selectable from the STANDALONE → AUTO SCENE MODE
- MASTER MANUAL: The luminaire ignores the DMX signal, turns to a fix colour selectable from the STANDALONE → MANUAL MODE
  Being MASTER the luminaire sends via DMX the command to control the SLAVE luminaires connected in line
- MASTER AUTO SCENE: The luminaire ignores the DMX signal and the potenziometer and performs the memorised scenes sequence (max 10 scenes) selectable from the STANDALONE → AUTO SCENE MODE
  Being MASTER the luminaire sends via DMX the command to control the SLAVE luminaires connected in line
- SLAVE: The luminaire ignores the DMX signal and the potentiometer, and follows the MASTER luminaire via DMX line.

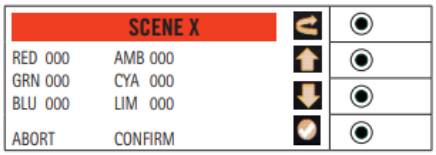
MANUAL MODE

Push UP or DOWN to select which item to edit (RED, GREEN,..)
Press ENTER to proceed with the editing: the value next to the item lights up. Use the dimmer potentiometer to edit the value
Press ENTER to confirm the editing, ESC to go back
Once all the desired items are edited:
- move to CONFIRM and press ENTER to confirm or move to ABORT and press ENTER to cancel the changes
- press ESC on any entry to exit without saving the changes



AUTO SCENE MODE

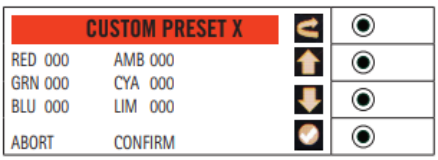
Push UP or DOWN to select which item to edit (RED, GREEN,..)
Press ENTER to proceed with the editing: the value next to the item lights up. Use the dimmer potentiometer to edit the value
Press ENTER to confirm the editing, ESC to go back
Once all the desired items are edited:
- move to CONFIRM and press ENTER to confirm or move to ABORT and press ENTER to cancel the changes
- press ESC on any entry to exit without saving the changes



Item	Value	Def	Description
SCENE SET			You enter in the scene setting screen, described in the relevant paragraph.
PAUSE TIME	0.1 .. 60.0 s	1.0 s	It is the duration time of the scene
FADE TIME	0.1 .. 60.0 s	1.0 s	It is the fading time towards the next scene
SCENE DELETE	Enter to Delete Esc to Exit		Deleting of the scene
FROM DMX	Enter to Copy from Dmx Esc to Exit		Copy of the scene from Dmx signal: press Enter to see the set scene through Dmx and press Enter again to confirm the copy. In case of DMX absence, "Dmx Not Present" will be displayed
SCENE COPY	Enter to Copy Esc to Exit		COPY of the scene: the scene (RGBACL values + pause time and Fade) is copied in the memory so to be pasted later
SCENE PASTE	Enter to Paste Esc to Exit		PASTE the scene: the scene previously copied is pasted on the activescene.

CUSTOM PRESETS

Push UP or DOWN to select which item to edit (RED, GREEN,..)
Press ENTER to proceed with the editing: the value next to the item lights up. Use the dimmer potentiometer to edit the value
Press ENTER to confirm the editing, ESC to go back
Once all the desired items are edited:
- move to CONFIRM and press ENTER to confirm or move to ABORT and press ENTER to cancel the changes
- press ESC on any entry to exit without saving the changes



Read How to set the colour custom presets

Part 7. Safety instructions

This manual contains all the safety information required for the appropriate use of the fixture. It shall be carefully read it and stored for future requirements.

Spotlight sc will not be responsible for any damage to the fixture itself, to other objects or people due to improper installation or use of the fixture either than hereinafter specified. Additionally, you are required to download the User Manual from www.spotlight.it for a comprehensive knowledge al each and all functions.

UNPACKING

Remove the fixture from its package and make sure no damage incurred during transport. In the event of damages, a report or claim shall be issued to the transport agent and the seller to start the repair or replacement process.

PRINTED NOTES ON THE FIXTURES

A label of the fixture' side displays the following information:

- Model part number
- Mains a.c.~ voltage (V)
- Power (W)
- Frequency (Hz)
- Protection rate (IP 20)
- ta max: maximum ambient temperature allowed (°C)
- t max: external surface temperature at thermal regime (°C)
- ……X m minimum recommended distance between the fixture and the lighted object (m)
- 

Risk Group 2, in compliance with EN62471. Do not face directly the light source as it might damage your eyesight.
-  **Photo-Biological safety**: do not stare at the light source while functioning
-  **Dispose of waste**: in compliance to 2012/19/EU, this fixture shall be disposed according to proper waste-class regulation

INSTALLATION

- This fixture is designed only for professional use, not for domestic use or handling
- This fixture can be either hung from top or fitted onto a tripod
- Make sure the hanging point is safe and stable. Additionally add a safety rope if required by local safety regulation
- Do not focus the light beam straight onto somebody's eyes

ELECTRICAL CONNECTION

Electrical wiring, plugging and cabling shall be made by professional or qualified technicians. Before and during installation, attend to the following procedures:

- Check that Mains Voltage and Frequency comply with what printed on the fisture's label
- Always check the Mains line is properly grounded
- Check the working power of the fixture, as printed on its label, to prevent from line overload
- This fixtures is foreseen for indoor use: it shall be protected from rain and humidity if used under different conditions (IP 20)

MAINTENANCE

Do not open the fixture before disconnecting from the mains: an electrical shock might occur. A complete inspection shall be made once a year to check the electrical and mechanical parts' integrity and the software upgrades. Repairs shall be made by the manufacturer only or its appointed after-sale service center. After cleaning, the lenses shall be re-assembled and, if scratched or ruined, they shall be replaced with original parts.

COMPLIANCE

This products complies with the European Directives:

- 2014/35/EU: Safety on Low Voltage Directive LVD
- 2014/30/EU: Electromagnetic Compatibility EMC
- 2011/65/EU: Restriction of Hazardous Substances Directive RoHS

CE

Part 8. Logistics

Nella seguente tabella sono riportati i pesi e gli ingombri dei fari e dei relativi imballi.

Fixture							Packing				HS Code
Power	Type	Code	Weight (kg)	Dimensions (cm)			Weight (kg)	Dimensions (cm)			
				Length	Width	Height		Length	Width	Height	
50W	Fresnel	**FN LED 50** CW / WW	3	25	16	27	3,5	40	22	22	94054210
		FN LED 50 RGBW									
	PC	**PC LED 50** CW / WW		29				51	26	26	
	Profile	**PR LED 50 ZS** WW / RGBW	4				5				
	Accessories	TC MINI	0,1	10	0,4	10	0,1	10	0,4	10	94059900
		PL 4 MIN	0,4	15,5	11,5	3,3	0,5	18	13	4,4	
		PGM MIZO	0,1	15,3	6,7	5	0,1	15,3	6,7	5	
100W	Fresnel	**FN HY LED 100** CW / WW	3,5	31	22	29	4,1	38,5	22,5	18,5	94054210
	PC	**PC HY LED 100** CW / WW									
	Profile	**PR HY LED 100 ZS** CW / WW	6,2	54	34	40	7,6	57	27,5	27,5	
		PR HY LED 100 ZW CW / WW	6	45			7,4				
	Accessories	TC S05	0,1	14	0,4	14	0,1	14	0,4	14	94059900
		PL 4 U05	0,8	22,5	17	3,5	0,9	24,5	19	5,5	
		DIA 05	0,3	8,5	10,5	2,5	0,3	21	13	5	
		PGB R 100	0,1	21	10	0,5	0,1		10	0,5	
200W	Fresnel	**FN HY LED 200** CW / WW	6	36	30	35	6,7	46,5	31,5	38	94054210
		FN HY LED 200 TW / RGBW / 6C	7,5	45		39	8,7				
	PC	**PC HY LED 200** CW / WW	6	36		35	6,7				
		PC HY LED 200 TW / RGBW / 6C	7,5	45		39	8,7				
	Profile	**PR HY LED 200 ZS** CW / WW / TW / RGBW / 6C	11,5	76	34	47	13,5	92	36	40	
		PR HY LED 200 ZW CW / WW / TW / RGBW / 6C	11	64			12,5	82	34	37	
	Accessories	TC HY 200	0,1	18,5	0,4	18,5	0,1	18,5	0,4	18,5	94059900
		PL 4 HY 200	1	28,5	21	4	1,1	34	23	5,5	
		DIA HY	0,2	21,7	12	1,3	0,3	25	18	1,5	
		PGB HY	0,1	24	9,5	0,4	0,1	24	9,5	0,4	
		PR HY OP ZS	6,2	48	25,5	23	7,6	71	36	40	
		PR HY OP ZW	5,2	36			6,5	46,5	31,5	38	
300W	Fresnel	**FN HY LED 300** CW / WW / TW / 6C	9,5	48	30	43	10,9	71	36	40	94054210
	PC	**PC HY LED 300** CW / WW / TW / 6C	12,5	57		47	13,5				
	Profile	**PR HY LED 300 ZS** CW / WW / TW / 6C	15	76	34		18,5	92			
		PR HY LED 300 ZW CW / WW / TW / 6C	14	64			18				
	Followspot	**FS HY LED 300** CW	19	100	35	35	22	115	40		
	Cyclorama	**CYC LED 300** RGBW	15	57	43	25	18,2	61	57	33	
	Accessories	TC S25	0,3	25	0,4	25	0,3	25	0,4	25	94059900
		PL 4 U25	1,7	38	27	3,5	1,7	42	29	5,5	
		PL 8 U25	2				2				
		PL 4 HY3 PLUS									