

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	Logistics <a href="#">Weight &amp; sizes</a>	<a href="#">Safety instructions</a>
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# User manuals

(all in one)

rev. 08/03/2023

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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Tutti i fari Spotlight, a seconda della **sorgente LED** montata e della **potenza**, possono essere raggruppati in **6 famiglie** (rappresentate da **6 colori**).



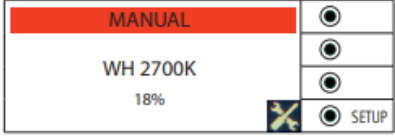
			LED Source					
			White	Tunable White	RGBW	6C	8C	
<b>LED Power</b>	50W	Fresnel PC Profile	<b>1A</b> Firmware 1.09 <a href="#">User manual 1A</a>					
	85W	Downlight						
	100W	Fresnel PC Profile						
	200W	Fresnel PC Profile			<b>3</b> Firmware 1.01 <a href="#">User manual 3</a>			
	300W	Cyclorama						
		Fresnel PC Profile Followspot	<b>1B</b> Firmware 1.03 <a href="#">User manual 1B</a>	<b>2</b> Firmware 1.06 <a href="#">User manual 2</a>		<b>4</b> Firmware 1.22 <a href="#">User manual 4</a>		
700W	Fresnel PC Profile Followspot					<b>5</b> Firmware x <a href="#">User manual 5</a>		

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.

	1A	1B	2	3	4	5
<p>If the luminaire is DMX controlled, after 3 seconds the display will show the mode and DMX address.</p> <p>Otherwise it will show the potentiometers status.</p> <p>By pressing the ENTER (or SETUP) button you access the <a href="#">SETTINGS</a>. 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.</p> <p>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.</p>						
						

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

- LOCAL POTENTIOMETER (/ENCODER)
- DMX
- [RDM](#)
- [STAND ALONE](#) (only for RGBW, 6C, 8C versions)

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 console thanks to the DMX PERSONALITIES and related channels.

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## 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	8C	How to...	
<b>DMX SETTINGS</b>	DMX ADDRESS	1 (default) - ... - xxx	YES	YES	YES	YES	YES	YES	<a href="#">How to set the DMX address and DMX personality</a>	
	<a href="#">DMX PERSONALITY</a>		See related table	<a href="#">DMX chart 1A</a>	<a href="#">DMX chart 1B</a>	<a href="#">DMX chart 2</a>	<a href="#">DMX chart 3</a>	<a href="#">DMX chart 4</a>		<a href="#">DMX chart 5</a>
	WIRELESS DMX	ACTIVATION	ON OFF (default)	-	YES	YES	YES	YES		YES
UNLINK		ENTER to unlink ESC to exit	-	YES	YES	YES	YES	YES		
<b>STAND ALONE</b>	STAND ALONE	DISABLED (default) STDALONE MANUAL STDALONE AUTO SCENE MASTER MANUAL MASTER AUTO SCENE SLAVE	-	-	-	YES	YES	YES	<a href="#">How to set the stand alone function</a>	
	MANUAL MODE									
	AUTO SCENE MODE									
	CUSTOM PRESETS									
<b>OPTIONS</b>	LED DELAY	OFF - 50 - ... - 1000 (default) - ... - 2000 ms	YES	YES	YES	YES	YES	YES	<a href="#">How to emulate the performance of halogen lamp (only for 6C/8C)</a>	
	DIMMING CURVE	LINEAR HALO QUADRATIC (default) GAMMA 2.6 GAMMA 2.8 S	YES	YES	YES	YES	YES	YES		
	AMBER SHIFT	ON OFF (default)	-	-	-	-	YES	YES		
	OUTPUT FREQUENCY	500 - 800 - 1000 (default) - 1500 - 3000 - 5000 - 10000 - 15000 - 20000 Hz	YES	YES	YES	YES	YES	YES	<a href="#">How to remove flickering</a>	
	LED BOOST	ON OFF (default)	YES	-	YES	YES	YES	YES	<a href="#">How to increase +20% light output</a>	
	FAN MODE	AUTO (default) STANDARD SILENT	YES	YES	YES	YES	YES	YES	<a href="#">How to set the silent mode</a>	
	DISPLAY ROTATION	STANDARD (default) ROTATED	YES	YES	YES	YES	YES	YES	<a href="#">How to set the display</a>	
	DISPLAY ON/OFF	ON (default) OFF	YES	YES	YES	YES	YES	YES		
	LED CALIBRATION	RED	0..255 (default)	-	-	-	YES	YES	YES	<a href="#">How to set LED calibration</a>
		GREEN	0..255 (default)	-	-	-	YES	YES	YES	
		BLU	0..255 (default)	-	-	-	YES	YES	YES	
		WHITE	0..255 (default)	-	-	-	YES	-	-	
		AMBER	0..255 (default)	-	-	-	-	YES	YES	
		CYAN	0..255 (default)	-	-	-	-	YES	YES	
LIME	0..255 (default)	-	-	-	-	YES	YES			
DEFAULT SETTINGS		YES	YES	YES	YES	YES	YES	YES		
FACTORY SETTINGS		YES	YES	YES	YES	YES	YES	YES		
<b>INFO</b>	LED TEMPERATURE	°C	YES	YES	YES	YES	YES	YES		
	BOARD TEMPERATURE		YES	YES	YES	YES	YES	YES		
	CHIP TEMPEARURE		-	YES	YES	YES	YES	YES		
	LED TIME		YES	YES	-	-	-	-		
	RED LED TIME	hr - min	-	-	-	YES	YES	YES		
	GREEN LED TIME	hr - min	-	-	-	YES	YES	YES		
	BLU LED TIME	hr - min	-	-	-	YES	YES	YES		
	WHITE LED TIME	hr - min	-	-	-	YES	-	-		
	AMBER LED TIME	hr - min	-	-	-	-	YES	YES		
	CYAN LED TIME	hr - min	-	-	-	-	YES	YES		
	LIME LED TIME	hr - min	-	-	-	-	YES	YES		
	WARM WHITE TIME		-	-	YES	-	-	YES		
	COLD WHITE TIME		-	-	YES	-	-	YES		
	UNIT TIME	hr - min	YES	YES	YES	YES	YES	YES	YES	
	SOFTWARE VERSION	V. .... Release date	YES	YES	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'operatore 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

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

2CH / 8BIT			
	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)

3CH / 16BIT			
	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)

**CURRENT MODULATION** - Si tratta di una modalità di funzionamento per eliminare i disturbi di flickering, causati dal pilotaggio in PWM del LED, e i disturbi acustici, generati dai componenti elettronici.

Questa modalità è specificatamente indicata per applicazioni in studi TV o in camere acustiche dove è richiesta la massima silenziosità degli apparecchi l'assenza di flicker.

#### WHITE 300-700W

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

3CH / 8BIT			
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	STROBO & STORE	0 1..200 201...225 226...230	INACTIVE from slow (3,86 s) to fast (30 ms) FREE To store the desired fixture parameters: select manually the desired parameter in SERVICE --> enter in STROBE & STORE --> hold for 5 seconds a DMX value (226..230).
3 ch	<a href="#">SERVICE</a>	231...255 0..255	FREE See related table

6CH / 16BIT			
	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	<a href="#">DELAY</a>	See related table	
4 ch	FAN	0..255	from minimum to maximum
5 ch	STROBO & STORE	0 1..200 201...225 226...230	INACTIVE from slow (3,86 s) to fast (30 ms) FREE To store the desired fixture parameters: select manually the desired parameter in SERVICE --> enter in STROBE & STORE --> hold for 5 seconds a DMX value (226..230).
6 ch	<a href="#">SERVICE</a>	231...255	FREE See related table

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## TUNABLE WHITE

EASY – 2ch / 8BIT			
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	<a href="#">CCT LINEAR</a>	See related table	

SPLIT – 5ch / 8BIT			
	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	<a href="#">STROBO &amp; STORE</a>	See related table	
5 ch	<a href="#">SERVICE</a>	See related table	

STUDIO – 9ch / 16 BIT			
	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	<a href="#">CCT PRESET</a>	See related table	
4 ch	WW +/- correzione live del CCT STEP selezionato (= "zero point")	0..15	OFF
		6..111	from minimum to standard
		112..144	CCT STEP
		145..239	from standard to maximum
5 ch	CW +/- correzione live del CCT STEP selezionato (= "zero point")	0..15	OFF
		6..111	from minimum to standard
		112..144	CCT STEP
		145..239	from standard to maximum
240..255	OFF		
6 ch	<a href="#">DELAY</a>	See related table	
7 ch	FAN	0..255	from minimum to maximum
8 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
9 ch	<a href="#">SERVICE</a>	See related table	

SPLIT – 10ch / 16BIT			
	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	<a href="#">DELAY</a>	See related table	
8 ch	FAN	0..255	from minimum to maximum
9 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
10 ch	<a href="#">SERVICE</a>	See related table	

THEATRE FULL – 7ch / 16BIT			
	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	<a href="#">CCT LINEAR</a>	See related table	
4 ch	<a href="#">DELAY</a>	See related table	
5 ch	FAN	0..255	from minimum to maximum
6 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
7 ch	<a href="#">SERVICE</a>	See related table	

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## RGBW

EASY – 3ch / 8BIT			
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	<a href="#">CCT PRESET</a>	See related table	
3 ch	<a href="#">COLOUR PRESET</a>	See related table	

Note: CCT PRESET has priority over COLOUR PRESET

HSI – 7ch / 8BIT			
	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 chosen white in the CCT Color Point (COLOR POINT CCT - ALWAYS ACTIVE)
6 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
7 ch	<a href="#">SERVICE</a>	See related table	

CMY – 6ch / 8BIT			
	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	<a href="#">STROBO &amp; STORE</a>	See related table	
6 ch	<a href="#">SERVICE</a>	See related table	

RGBW – 9ch / 8BIT			
	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	<a href="#">CCT PRESET</a>	See related table	
7 ch	<a href="#">COLOUR PRESET</a>	See related table	
8 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
9 ch	<a href="#">SERVICE</a>	See related table	

FULL – 16ch / 16BIT			
	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	<a href="#">COLOUR PRESET</a>	See related table	
12 ch	<a href="#">CCT PRESET</a>	See related table	
13 ch	<a href="#">DELAY</a>	See related table	
14 ch	FAN	0..255	from minimum to maximum
15 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
16 ch	<a href="#">SERVICE</a>	See related table	

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## 6 COLOURS

EASY – 3ch / 8BIT			
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	<a href="#">COLOUR PRESET</a>	See related table	
3 ch	<a href="#">CCT PRESET</a>	See related table	

Note: CCT PRESET has priority over COLOUR PRESET

HSIC – 7ch / 8BIT			
	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	<a href="#">CCT LINEAR</a> (to select the desired CCT)	See related table	
6 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
7 ch	<a href="#">SERVICE</a>	See related table	

RGBACL – 9ch / 8BIT			
	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	<a href="#">STROBO &amp; STORE</a>	See related table	
9 ch	<a href="#">SERVICE</a>	See related table	

STUDIO – 21ch / 16BIT			
	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	<a href="#">COLOUR PRESET</a>	See related table	
16 ch	<a href="#">CCT STEPS</a>	See related table	
17 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
18 ch	<a href="#">DELAY</a>	See related table	
19 ch	FAN	0..255	from minimum to maximum
20 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
21 ch	<a href="#">SERVICE</a>	See related table	

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THEATRE – 22ch / 16BIT			
	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	<a href="#">COLOUR PRESET</a>	See related table	
16 ch	SATURATION (to dim the channel of CCT LINEAR)	0..255	from OFF (0) to full (255)
17 ch	<a href="#">CCT LINEAR</a> (to select the desired CCT)	See related table	
18 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
19 ch	<a href="#">DELAY</a>	See related table	
20 ch	FAN	0..255	from minimum to maximum
21 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
22 ch	<a href="#">SERVICE</a>	See related table	

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



<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## 8 COLOURS

EASY – 3ch / 8BIT			
	Function	DMX value	Description
1 ch	DIMMER	0..255	from OFF (0) to full (255)
2 ch	<a href="#">COLOUR PRESET</a>	See related table	
3 ch	<a href="#">CCT PRESET</a>	See related table	

Note: CCT PRESET has priority over COLOUR PRESET

HSIC – 7ch / 8BIT			
	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	<a href="#">CCT LINEAR</a> (to select the desired CCT)	See related table	
6 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
7 ch	<a href="#">SERVICE</a>	See related table	

RGBACL+WW+CW – 11ch / 8BIT			
	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	WARM WHITE	0..255	from OFF (0) to full (255)
9 ch	COLD WHITE	0..255	from OFF (0) to full (255)
10 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
11 ch	<a href="#">SERVICE</a>	See related table	

RGBACL+WW+CW – 18ch / 16BIT			
	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	WARM WHITE	0..255	from OFF (0) to full (255)
16 ch	WARM WHITE FINE	0..255	from OFF (0) to full (255)
17 ch	COLD WHITE	0..255	from OFF (0) to full (255)
18 ch	COLD WHITE FINE	0..255	from OFF (0) to full (255)

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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STUDIO – 26ch / 16BIT			
	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	WARM WHITE	0..255	from OFF (0) to full (255)
16 ch	WARM WHITE FINE	0..255	from OFF (0) to full (255)
17 ch	COLD WHITE	0..255	from OFF (0) to full (255)
18 ch	COLD WHITE FINE	0..255	from OFF (0) to full (255)
19 ch	<a href="#">LEE FILTERS</a>	See related table	
20 ch	<a href="#">ROSCO FILTERS</a>	See related table	
21 ch	<a href="#">CCT STEPS</a>	See related table	
22 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
23 ch	<a href="#">DELAY</a>	See related table	
24 ch	FAN	0..255	from minimum to maximum
25 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
26 ch	<a href="#">SERVICE</a>	See related table	

THEATRE – 29ch / 16BIT			
	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	WARM WHITE	0..255	from OFF (0) to full (255)
16 ch	WARM WHITE FINE	0..255	from OFF (0) to full (255)
17 ch	COLD WHITE	0..255	from OFF (0) to full (255)
18 ch	COLD WHITE FINE	0..255	from OFF (0) to full (255)
19 ch	<a href="#">LEE FILTERS</a>	See related table	
20 ch	<a href="#">ROSCO FILTERS</a>	See related table	
21 ch	SATURATION (to dim the channel of CCT LINEAR)	0..255	from OFF (0) to full (255)
22 ch	<a href="#">CCT LINEAR</a> (to select the desired CCT)	See related table	
23 ch	GREEN +/-	0..15 16..126 127..144 145..255	OFF MINUS GREEN - ZERO POINT - CENTER PLUS GREEN +
24 ch	<a href="#">DELAY</a>	See related table	
25 ch	FAN	0..255	from minimum to maximum
26 ch	<a href="#">STROBO &amp; STORE</a>	See related table	
27 ch	<a href="#">SERVICE</a>	See related table	
28 ch	FREE 1		
29 ch	FREE 2		

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

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## 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

<p>SERVICE 1 (RGBW, 6C, 8C)</p> <p>→ <a href="#">STORE 1</a></p>	STAND ALONE	CUSTOM PRESETS (to create and save by using a console)	0..5	OFF
			6..30	SAVE CUSTOM PRESET 1
<p>SERVICE (White 300-700, Tunable White)</p> <p>/</p> <p>SERVICE 2 (RGBW, 6C, 8C)</p> <p>→ <a href="#">STORE 2</a></p>	OPTIONS	LED DELAY	31..55	SAVE CUSTOM PRESET 2
			56..80	SAVE CUSTOM PRESET 3
			81..105	SAVE CUSTOM PRESET 4
			106..130	SAVE CUSTOM PRESET 5
			131..155	SAVE CUSTOM PRESET 6
			156..180	SAVE CUSTOM PRESET 7
			181..205	SAVE CUSTOM PRESET 8
			206..230	SAVE CUSTOM PRESET 9
			231..255	SAVE CUSTOM PRESET 10
			0..5	OFF
			6..11	LED DELAY OFF
			12..17	LED DELAY 50 ms
			18..23	LED DELAY 100 ms
			24..29	LED DELAY 240 ms
30..35	LED DELAY 400 ms			
36..41	LED DELAY 600 ms			
42..47	LED DELAY 800 ms			
48..53	LED DELAY 1000 ms (default)			
54..59	LED DELAY 1200 ms			
60..65	LED DELAY 1600 ms			
66..71	LED DELAY 2000 ms			
DIMMING CURVE	72..77	CURVE LINEAR		
	78..83	CURVE QUADRATIC		
	84..89	CURVE HALO (default)		
OUTPUT FREQUENCY	90..95	FREQUENCY 500 Hz		
	96..101	FREQUENCY 800 Hz		
	102..107	FREQUENCY 1000 Hz (default)		
	108..113	FREQUENCY 1500 Hz		
	114..119	FREQUENCY 3000 Hz		
	120..125	FREQUENCY 5000 Hz		
	126..131	FREQUENCY 10000 Hz		
	132..137	FREQUENCY 15000 Hz		
138..143	FREQUENCY 20000 Hz			
LED BOOST	144..149	LED BOOST ON		
	150..155	LED BOOST OFF (default)		
FAN MODE	156..161	FAN MODE AUTO (default)		
	162..167	FAN MODE STANDARD		
	168..173	FAN MODE SILENT		
DISPLAY ROTATION DISPLAY ON/FF	174..179	DISPLAY STANDARD (default)		
	180..185	DISPLAY ROTATED		
	186..191	DISPLAY OFF		
LED CALIBRATION	192..197	DISPLAY ON (default)		
	198..203	COLOUR CALIBRATION (for all) NO FUNCTION (for White 300-700)		
DEFAULT SETTINGS	204..209	DEFAULT SETTINGS		
	210..255	FREE (for future use)		

### STROBE & STORE CHANNEL

STROBE & STORE	STROBE	0	OFF
		1..150	from slow (3,86 s) to fast (30 ms)
		151..200	OFF
	STORE 1 (for CUSTOM PRESETS)	201..210	Once selected the SERVICE channel for CUSTOM PRESETS keep on hold for 5 seconds to store the new value. 3 flashes confirm that it is registered.
		211..230	OFF
STORE 2 (for OPTIONS)	231..240	Once selected the SERVICE channel for OPTIONS keep on hold for 5 seconds to store the new value. 3 flashes confirm that it is registered.	
	241..255	OFF	

### CCT CHANNEL

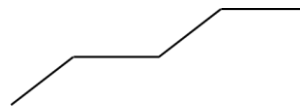
CCT LINEAR (6C)	CCT STEP (6C)	NONE
0.. 0..	0.. 4	1500 K
1.. 7..	8.. 11	from 1500K to 1600K
8.. 8..	12.. 14	1600 K
9.. 15	15.. 18	from 1600K to 1700K
16.. 16	19.. 21	1700 K
17.. 23	22.. 25	from 1700K to 1800K
24.. 24	26.. 28	1800 K
25.. 31	29.. 32	from 1800K to 1900K
32.. 32	33.. 35	1900 K
33.. 39	36..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

CCT PRESET(6C)	
0..4	NONE
5.. 11	1500 K
12.. 18	1600 K
19.. 25	1700 K
26.. 32	1800 K
33.. 39	1900 K
40.. 46	2000 K
47.. 53	2100 K
54.. 60	2200 K
61.. 67	2300 K
68.. 74	2400 K
75.. 81	2500 K
82.. 88	2600 K
89.. 95	2700 K
96.. 102	2800 K
103.. 109	2900 K
110.. 116	3000 K
117.. 123	3100 K
124.. 130	3200 K
131.. 137	3300 K
138.. 144	3400 K
145.. 151	3500 K
152.. 158	4000 K
159.. 165	5000 K
166.. 172	5600 K
173.. 179	6000 K
180.. 186	6500 K
187.. 193	8000 K
194.. 200	10000 K
201.. 207	12000 K
208.. 214	14000 K
215.. 221	15000 K
222.. 228	16000 K
229.. 235	17000 K
236.. 242	18000 K
243.. 249	19000 K
250.. 255	20000 K

CCT PRESET (RGBW)	
0..15	NONE
16..45	2700 K
46..75	3000 K
76..105	3200 K
106..135	3500 K
136..165	4000 K
166..195	5600 K
196..225	6500 K
226..255	8000 K

CCT PRESET (TW)	
0..35	2700 K
36..70	3000 K
71..105	3200 K
106..140	3500 K
141..175	4000 K
176..210	5600 K
211..225	6500 K

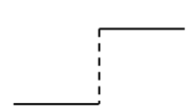
CCT LINEAR (TW)	
0	2700 K
1..41	from 2700K to 3000K
42	3000 K
43..83	from 3000K to 3200K
84	3200 K
85..125	from 3200K to 3500K
126	3500 K
127..168	from 3500K to 4000K
169	4000 K
170..211	from 4000K to 5600K
212	5600 K
213..254	from 5600K to 6500K
255	6500 K



STEP



LINEAR



PRESET

## COLOUR CHANNEL

COLOUR PRESET		0..35	NONE
			36..39
	40..43	GREEN	
	44..47	BLUE	
	48..51	CYAN	
	52..55	YELLOW	
	56..59	MAGENTA	
STANDARD PRESETS (selectable by console)	60..63	LEE 004 - MEDIUM BASTARD AMBER	
	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 (selectable by console)	216..219	CUSTOM PRESET 1	
	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

DELAY	0..45	NONE (The LED delay follows the set on the menu display)
	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	Display of the values read by the temperature sensor, expressed in tenths of Celsius degree
SENSOR_VALUE	

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## 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 DMX PERSONALITY

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 (esempio)

DMX SETTINGS => DMX PERSONALITY = EASY - 3ch (esempio)

Se al secondo faro si attribuisce lo stesso canale e la stessa personalità, esso si comporterà come il primo faro.

Diversamente affinché 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 (esempio)

DMX SETTINGS => DMX PERSONALITY = HSI - 7ch (esempio)

### HOW TO EMULATE THE PERFORMANCE OF HALOGEN LAMP

Ogni faro della serie Hyperion a colori (6C/8C) è in grado di emulare una sorgente di luce convenzionale alogena.

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

- la **curva dimmer halogen** che rappresenta l'inerzia con cui la luce viene restituita dalla sorgente in funzione del segnale che riceve  
(DMX PERSONALITY / CCT PRESET = 3200K)  
OPTIONS → AMBER SHIFT = ON
- il **delay**, vale a dire il "ritardo" con cui un filamento inizia ad emettere luce dopo che riceve lo stimolo elettrico  
OPTIONS → LED DELAY = 1000ms (standard delay of an halogen source)
- l'**effetto amber shift**, tipico viraggio a cui tende una lampada alogena quando viene dimmerata diminuendone l'emissione  
OPTIONS → DIMMING CURVE = HALO

### HOW TO CHANGE THE COLOR TEMPERATURE

Nei vecchi fari alogeni per modificare la temperatura di colore del bianco era necessario ricorrere all'utilizzo di filtri di conversione CTO (orange) e CTB (blu).

In tutti i fari della Serie Hyperion nelle **versioni bianco regolabile** e **colore** è possibile impostare la temperatura di colore del bianco dal menu del proiettore. It is necessary to choose a DMX PERSONALITY which allows the management of the CCT PRESET.

Il range varia a seconda della sorgente:

- versione TW: da 2'700K a 6'500K
- versione RGBW: da 2'700K a 8'000K
- versione 6/8 colori: da 1'500K a 20'000K

In tutti i fari a LED della Serie Hyperion nelle **versioni bianco fisso** è possibile scegliere tra le seguenti temperature di colore:

- versione WW: 3'000K
- versione NW: 4'000K
- versione CW: 5'600K

(altre temperature di colore a scelta tra 2'700K e 6'500K)

In entrambi i casi un algoritmo assicura che la temperatura di colore resti costante durante la dimmerazione

2700K	3000K	3200K	3500K	4000K	5600K	6500K
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### HOW TO SET THE FAN MODE

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: 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 (the fans work at minimum and in case of critical temperatures of the LED it automatically reduces the brightness)

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

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## HOW TO SET THE DISPLAY

Per evitare emissioni luminose indesiderate del display è possibile spegnerlo.

OPTIONS → DISPLAY = OFF (OFF in 60 seconds)

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

OPTIONS → DISPLAY ROTATION = STANDARD or ROTATED

## HOW TO REMOVE FLICKERING EFFECT IN CAMERAS

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 SET THE COLOUR CUSTOM PRESETS

In ogni faro della serie Hyperion a colori (RGBW/6C/8C) è disponibile:

- una libreria predefinita ([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:

Agendo localmente dal display del faro, seguendo i seguenti passi:

- premere il pulsante di attivazione del display del faro
- selezionare in successione **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 ed attendere il flash di conferma dell'avvenuto salvataggio
- ora la tinta è richiamabile in quel *preset* (CUSTOM PRESET 1)

Agendo da remoto utilizzando una consolle DMX, seguendo i seguenti passi:

- 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 in questa posizione
- 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 5 flash di conferma dell'avvenuto salvataggio
- ora la tinta è richiamabile in quel *preset* (CUSTOM PRESET 1)

## FUNZIONI AVANZATE SULLA GESTIONE DEL COLORE

- **Booster** – 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.  
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
- **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.
- **Calibrazione** – 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.  
E' sufficiente entrare nel menù del faro nella sezione **LED CALIBRATION** → **RED CALIBRATION** e regolare il valore DMX finché la tinta non si allinea a quella degli altri fari del gruppo.
- **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



## STANDALONE

Può capitare di avere la necessità di controllare uno o più fari senza utilizzare una consolle.

Il software permette di costruire una o più tinte statiche e di definirne la durata e la sequenza.

- per creare una singola tinta statica:

STANDALONE => STANDALONE = MANUAL

- per creare più tinte statiche e definire durata e sequenza:

STANDALONE => STANDALONE = AUTO SCENE

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).

Per disabilitare queste modalità di controllo è sufficiente riconnettere il cavo DMX.

- 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 potenziometer, and follows the MASTER luminaire via DMX line.

MANUAL MODE	AUTO SCENE MODE	CUSTOM PRESETS																																																																																												
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## 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](http://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 fixture'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 fixture 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 product 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



<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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## Part 8. Logistics

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

Power	Fixture						Packing				HS Code
	Type	Code	Weight (kg)	Dimensions (cm)			Weight (kg)	Dimensions (cm)			
				Length	Width	Height		Length	Width	Height	
50W	Fresnel	FN LED 50 CW DMX	2,5	25,0	16,0	27,0	3,3	40,0	22,0	22,0	94054210
		FN LED 50 WW DMX	2,5	25,0	16,0	27,0	3,3	40,0	22,0	22,0	
		FN LED 50 RGBW DMX	3,0	25,0	16,0	27,0	3,4	40,0	22,0	22,0	
	PC	PC LED 50 CW DMX	3,0	29,0	16,0	27,0	3,4	51,0	26,0	26,0	
		PC LED 50 WW DMX	3,0	29,0	16,0	27,0	3,4	51,0	26,0	26,0	
	Profile	PR LED 50 ZS WW DMX	4,1	29,0	16,0	27,0	5,1	51,0	26,0	26,0	
		PR LED 50 ZS RGBW DMX	4,1	29,0	16,0	27,0	5,1	51,0	26,0	26,0	
	Accessories	TC MINI	0,1	10,0	0,4	10,0	0,1	10,0	0,4	10,0	94059900
		PL 4 MIN	0,4	15,5	11,5	3,3	0,4	18,0	13,0	4,4	
PGM MIZO		0,1	15,3	6,7	5,0	0,1	15,3	6,7	5,0		
100W	Fresnel	FN HY LED 100 CW	3,5	31,0	22,0	29,0	4,1	38,5	22,5	18,5	94054210
		FN HY LED 100 WW	3,5	31,0	22,0	29,0	4,1	38,5	22,5	18,5	
	PC	PC HY LED 100 CW	3,5	31,0	22,0	29,0	4,3	38,5	22,5	18,5	
		PC HY LED 100 WW	3,5	31,0	22,0	29,0	4,3	38,5	22,5	18,5	
	Profile	PR HY LED 100 ZS CW	6,2	54,0	34,0	40,0	7,6	57,0	27,5	27,5	
		PR HY LED 100 ZS WW	6,2	54,0	34,0	40,0	7,6	57,0	27,5	27,5	
		PR HY LED 100 ZW CW	6,0	45,0	34,0	40,0	7,4	57,0	27,5	27,5	
		PR HY LED 100 ZW WW	6,0	45,0	34,0	40,0	7,4	57,0	27,5	27,5	
	Accessories	TC S05	0,1	14,0	0,4	14,0	0,1	14,0	0,4	14,0	94059900
		PL 4 U05	0,8	22,5	17,0	3,5	0,9	24,5	19,0	5,5	
		DIA 05	0,3	8,5	10,5	2,5	0,3	21,0	13,0	5,0	
		PGB R 100	0,1	21,0	10,0	0,5	0,1	21,0	10,0	0,5	
200W	Fresnel	FN HY LED 200 CW	6,0	36,0	30,0	35,0	6,7	46,5	31,5	38,0	94054210
		FN HY LED 200 WW	6,0	36,0	30,0	35,0	6,7	46,5	31,5	38,0	
		FN HY LED 200 TW	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
		FN HY LED 200 RGBW	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
		FN HY LED 200 6C	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
	PC	PC HY LED 200 CW	6,0	36,0	30,0	35,0	6,7	46,5	31,5	38,0	
		PC HY LED 200 WW	6,0	36,0	30,0	35,0	6,7	46,5	31,5	38,0	
		PC HY LED 200 TW	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
		PC HY LED 200 RGBW	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
		PC HY LED 200 6C	7,5	45,0	30,0	39,0	8,7	46,5	31,5	38,0	
	Profile	PR HY LED 200 ZS CW	11,5	76,0	34,0	47,0	13,5	92,0	36,0	40,0	
		PR HY LED 200 ZS WW	11,5	76,0	34,0	47,0	13,5	92,0	36,0	40,0	
		PR HY LED 200 ZS TW	11,5	76,0	34,0	47,0	13,5	92,0	36,0	40,0	
		PR HY LED 200 ZS RGBW	11,5	76,0	34,0	47,0	13,5	92,0	36,0	40,0	
		PR HY LED 200 ZS 6C	11,5	76,0	34,0	47,0	13,5	92,0	36,0	40,0	
		PR HY LED 200 ZW CW	10,9	64,0	34,0	47,0	12,3	82,0	34,0	37,0	
		PR HY LED 200 ZW WW	10,9	64,0	34,0	47,0	12,3	82,0	34,0	37,0	
		PR HY LED 200 ZW TW	10,9	64,0	34,0	47,0	12,3	82,0	34,0	37,0	
	Accessories	TC EU185	0,1	18,5	0,4	18,5	0,1	18,5	0,4	18,5	94059900
		PL 4 EU185	1,1	28,5	21,0	4,0	1,1	34,0	23,0	5,5	
		DIA HY	0,2	21,7	12,0	1,3	0,3	25,0	18,0	1,5	
PGB HY		0,1	24,0	9,5	0,4	0,1	24,0	9,5	0,4		
PR HY OP ZS		6,2	48,0	25,5	23,0	7,6	71,0	36,0	40,0		
PR HY OP ZW		5,2	36,0	25,5	23,0	6,5	46,5	31,5	38,0		

<a href="#">How to...</a>	<a href="#">Settings</a>	<b>1A</b> <a href="#">White 50-100-200</a>	<b>1B</b> <a href="#">White 300-700</a>	<b>2</b> <a href="#">Tunable white</a>	<b>3</b> <a href="#">RGBW</a>	<b>4</b> <a href="#">6C</a>	<b>5</b> <a href="#">8C</a>	<a href="#">Logistics</a> <a href="#">Weight &amp; sizes</a>	<a href="#">Safety</a> <a href="#">instructions</a>
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300W	Fresnel	FN HY LED 300 CW	9,5	48,0	30,0	43,0	10,9	71,0	36,0	40,0	94054210
		FN HY LED 300 WW	9,5	48,0	30,0	43,0	10,9	71,0	36,0	40,0	
		FN HY LED 300 TW	9,5	48,0	30,0	43,0	10,9	71,0	36,0	40,0	
		FN HY LED 300 6C	9,5	48,0	30,0	43,0	10,9	71,0	36,0	40,0	
	PC	PC HY LED 300 CW	12,5	57,0	30,0	47,0	13,5	71,0	36,0	40,0	
		PC HY LED 300 WW	12,5	57,0	30,0	47,0	13,5	71,0	36,0	40,0	
		PC HY LED 300 TW	12,5	57,0	30,0	47,0	13,5	71,0	36,0	40,0	
		PC HY LED 300 6C	12,5	57,0	30,0	47,0	13,5	71,0	36,0	40,0	
	Profile	PR HY LED 300 ZS CW	15,0	76,0	34,0	47,0	18,5	92,0	36,0	40,0	
		PR HY LED 300 ZS WW	15,0	76,0	34,0	47,0	18,5	92,0	36,0	40,0	
		PR HY LED 300 ZS TW	15,0	76,0	34,0	47,0	18,5	92,0	36,0	40,0	
		PR HY LED 300 ZS 6C	15,0	76,0	34,0	47,0	18,5	92,0	36,0	40,0	
		PR HY LED 300 ZW CW	14,0	64,0	34,0	47,0	18,0	92,0	36,0	40,0	
		PR HY LED 300 ZW WW	14,0	64,0	34,0	47,0	18,0	92,0	36,0	40,0	
PR HY LED 300 ZW TW		14,0	64,0	34,0	47,0	18,0	92,0	36,0	40,0		
PR HY LED 300 ZW 6C		14,0	64,0	34,0	47,0	18,0	92,0	36,0	40,0		
Followspot	FS HY LED 300 CW	19,0	100,0	35,0	35,0	22,0	115,0	40,0	40,0		
Cyclorama	CYC LED 300 RGBW DMX	15,0	57,0	43,0	25,0	18,2	61,0	57,0	33,0		
Accessories	TC S25	0,3	25,0	0,4	25,0	0,3	25,0	0,4	25,0	94059900	
	PL 4 U25	1,7	38,0	27,0	3,5	1,7	42,0	29,0	5,5		
	PL 8 U25	2,0	38,0	27,0	3,5	2,0	42,0	29,0	5,5		
	PL 4 HY3 PLUS	2,0	38,0	27,0	3,5	2,0	42,0	29,0	5,5		
700W	Fresnel	FN HY LED 700 CW	18,0	60,0	40,0	50,0					94054210
		FN HY LED 700 WW	18,0	60,0	40,0	50,0					
		FN HY LED 700 TW	18,0	60,0	40,0	50,0					
		FN HY LED 700 8C	18,0	60,0	40,0	50,0					
	PC	PC HY LED 700 CW	20,0	69,0	40,0	50,0					
		PC HY LED 700 WW	20,0	69,0	40,0	50,0					
		PC HY LED 700 TW	20,0	69,0	40,0	50,0					
		PC HY LED 700 8C	20,0	69,0	40,0	50,0					
	Profile	PR HY LED 700 ZS CW	31,0	127,0	40,0	47,0					
		PR HY LED 700 ZS WW	31,0	127,0	40,0	47,0					
		PR HY LED 700 ZS TW	31,0	127,0	40,0	47,0					
		PR HY LED 700 ZS 8C	31,0	127,0	40,0	47,0					
		PR HY LED 700 ZW CW	28,0	92,0	40,0	47,0					
		PR HY LED 700 ZW WW	28,0	92,0	40,0	47,0					
PR HY LED 700 ZW TW		28,0	92,0	40,0	47,0						
PR HY LED 700 ZW 8C		28,0	92,0	40,0	47,0						
Followspot	FS HY LED 700 CW	36,0	144,0	40,0	42,0						
Accessories	TC HY 700	0,4	30,0	30,0	0,4	0,4	30,0	30,0	0,4	94059900	
	PL 4 HY 700										
	DIA HY 700										
	PGB HY 700										