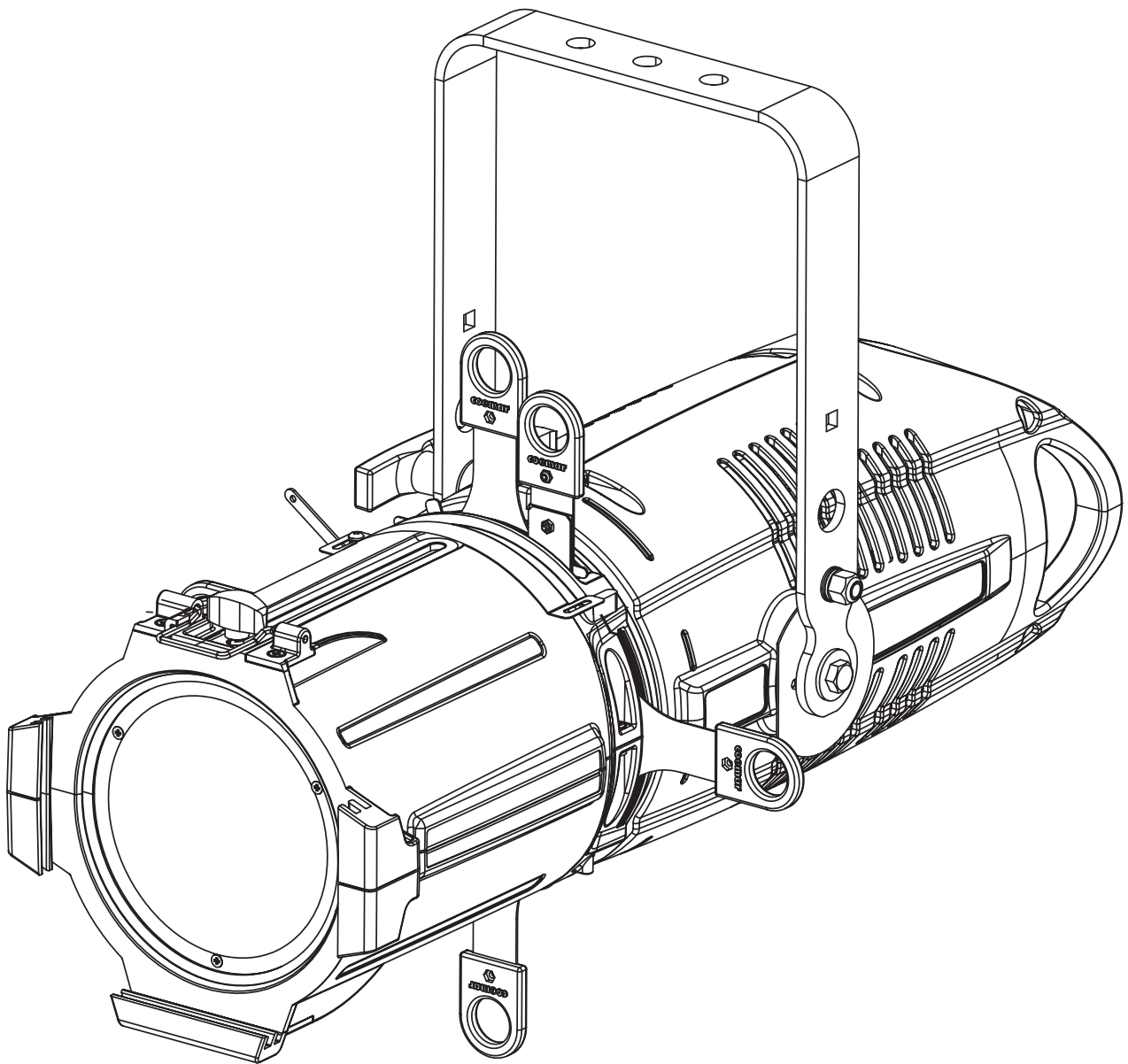




FullSpectrum 6 HD-R



USER MANUAL
vrs. 1.0 - 28.03.2024



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1. Packaging and transportation

1.1 Packaging

Open the packaging and make sure that no part of the equipment has suffered any damage during the transportation. In case of damage to the fixture, contact your carrier and your supplier immediately by telephone, fax or email, and inform them you will formally notify them in writing through registered letter.

Packing list

Ensure the packaging contains:

1 - LEDko FullSpectrum 6 HD-R

1 - Instruction manual

1 - Gobo holder

1 - 1.5 m power cable with PowerCON TRUE1 Top and bare ends

1.2 Transportation

The **LEDko FullSpectrum 6 HD-R** should be transported in either its original packaging or in an appropriate flight case.

2. General information

2.1 Safety informations

Fire prevention:



1. Never locate the fixture on any flammable surface.
2. Minimum distance from flammable materials: 0,5m.
3. Minimum distance from the closet illuminable surface: 0,5m.
4. Replace any blown or damaged fuse only with those of identical values. Refer to the schematic diagram if there is any doubt.
5. Connect the projector to mains power protected by a thermal magnetic circuit breaker.

Prevention from electric shock:



1. Presence of high voltage inside of the fixture. Insulate the projector from mains supply before opening or performing any function which involves touching the inside of the fixture, including lamp replacement.
2. For the connection to the mains, adhere strictly to the guidelines outlined in this manual.
3. The level of technology of **LEDko FullSpectrum 6 HD-R** requires the use of specialised personnel for all service applications; refer all work to your authorised Coemar service centre.

3. A good earth connection is essential for the proper functioning of the projector. Never connect the fixture if there is no earth connection.
4. Mains cables must not come into contact with other cables.
5. Do not operate the projector with wet hands or in an area where water is present.
6. The fixture must never be located in an exposed position, or in areas of extreme humidity.

Safety:



1. The projector must always be installed with bolts, clamps, or other fixing devices which are suitably rated to support the weight of the projector.
2. Always use a secondary safety fixing device with chain or steel wire of a suitable rating to sustain the weight of the unit in case of failure of the principal fixing point.
3. The external surfaces of the unit, at various points, may reach 60°C. Never handle the unit until at least 10 minutes have elapsed since the LED was turned off.
4. Never install the fixture in an enclosed area lacking sufficient air flow; the room temperature must not exceed 40°C.
5. The projector contains electronic and electrical components which must under no circumstances be in contact with water, oil or any other liquid. Failure to do so will compromise the proper functioning of the projector.

Protection rating of the body against liquids and solids:



1. The standard version of the fixture is classified ordinary apparatus; its protection grade against penetration by external agents, solid or liquid, is IP20.

2.2 Warranty conditions

1. The fixture is under warranty for 24 months from the purchase date against factory defections.
2. Damage ought to unskillfulness, inappropriate use, or lack of suggested maintenance are excluded from the warranty.
3. Warranty expires when the projector is opened by unauthorized personnel.
4. Warranty doesn't include the replacement of the fixture.
5. Serial number and model of the fixture are necessary to retrieve informations and assistance from the dealer.

2.3 EC Norms

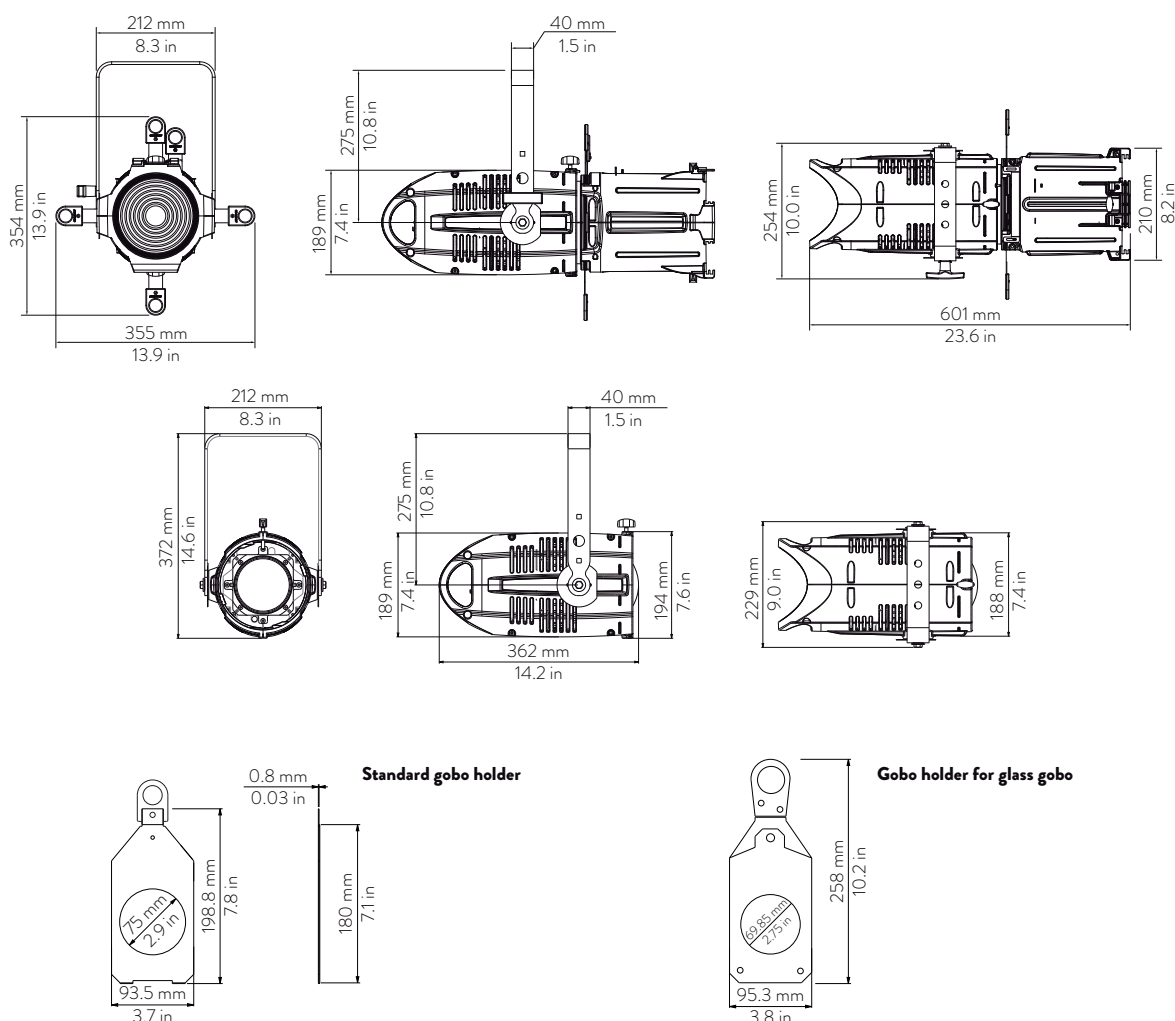
1. The fixture satisfies the essential requirements of the directive 2004/108/EC, 2006/95/EC, 2011/65/EC, 2002/96/EC & 2003/108/EC.
2. The fixture is in accordance with the standard EN 50419 (RoHS) and satisfies the requirements of the directive 2002/96/EC (WEEE).

3. Product specifications

3.1 Technical characteristics

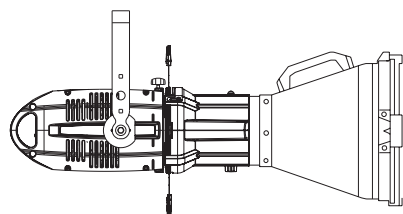
Power supply	80-264 V, auto-sensing, 50/60 Hz
Maximum current	1.06 A at 230 V, 2.13 A at 115 V
Power factor	Cosφ = 0.9
Max power consumption	220 W
Color temperature	RGBCLA, with pure color mixing throughout the field and all whites from 2.700 to 10.000 K (through DMX chart) or up to 20.000 K (through Display)
Color Rendering Index (CRI)	CRI > 95
Weight (without optic)	6 Kg - 13.2 lbs
Maximum ambient temperature	0°C - +40°C / 32°F - 104°F
IP rating	20

3.2 Dimensions



* with Soft Profile Fresnel optic

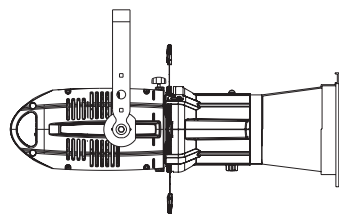
3.3 Weights and dimensions of the projector with various optics



Optics
Lens Tube Profile 10°

Length
900 mm (35.4 in)

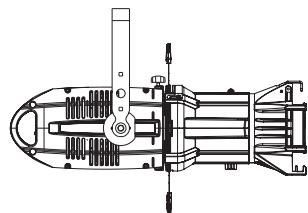
Weight
9 Kg (19.8 lbs)



Optics
Lens Tube Profile 14°
Lens Tube Profile 70°

Length
750 mm (35.4 in)
750 mm (35.4 in)

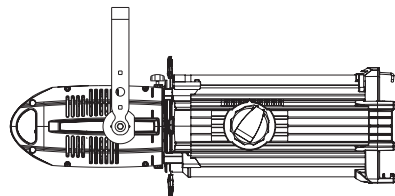
Weight
9 Kg (19.8 lbs)
8.68 Kg (19.14 lbs)



Optics
Lens Tube Profile 19°
Lens Tube Profile 26°
Lens Tube Profile 36°
Lens Tube Profile 50°

Length
670 mm (26.3 in)
670 mm (26.3 in)
670 mm (26.3 in)
670 mm (26.3 in)

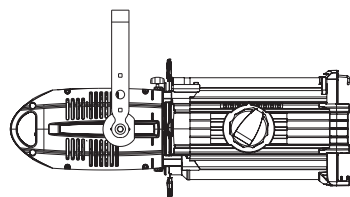
Weight
9.15 Kg (20.17 lbs)
9.05 Kg (19.95 lbs)
9.35 Kg (20.60 lbs)
9.05 Kg (19.95 lbs)



Optics
Profile Zoom 15°-35°

Length
886 mm (34.9 in)

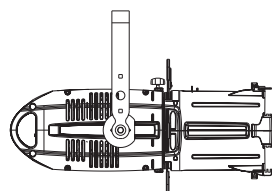
Weight
13.05 Kg (28.77 lbs)



Optics
Profile Zoom 25°-50°

Length
783 mm (30.8 in)

Weight
11.2 Kg (24.69 lbs)

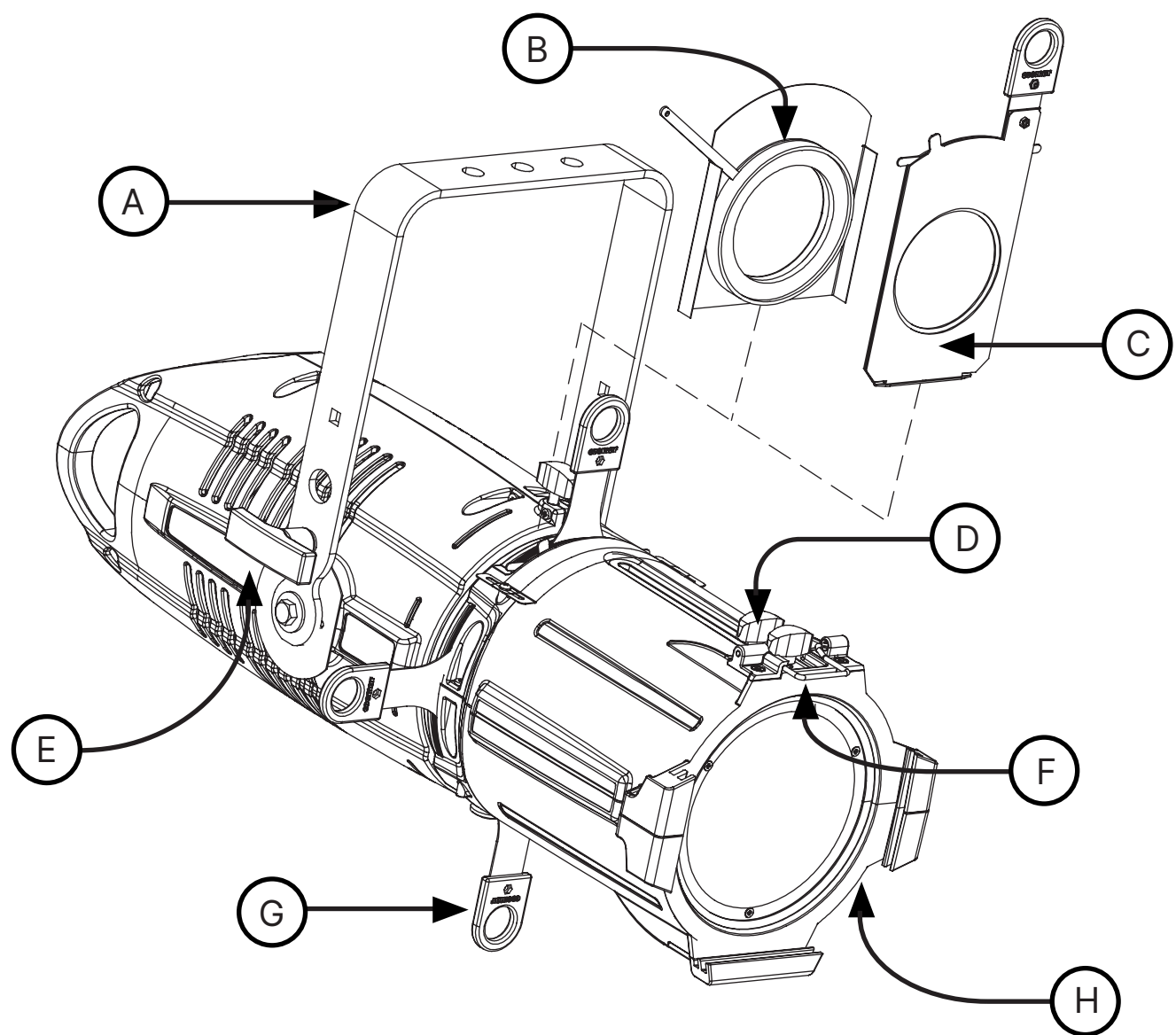


Optics
Profile Zoom 28°-40°
Soft Profile Fresnel
Zoom 14°-40°
Soft Profile PC
Zoom 11°-38°

Length
601 mm (23.7 in)
601 mm (23.7 in)
601 mm (23.7 in)
601 mm (23.7 in)

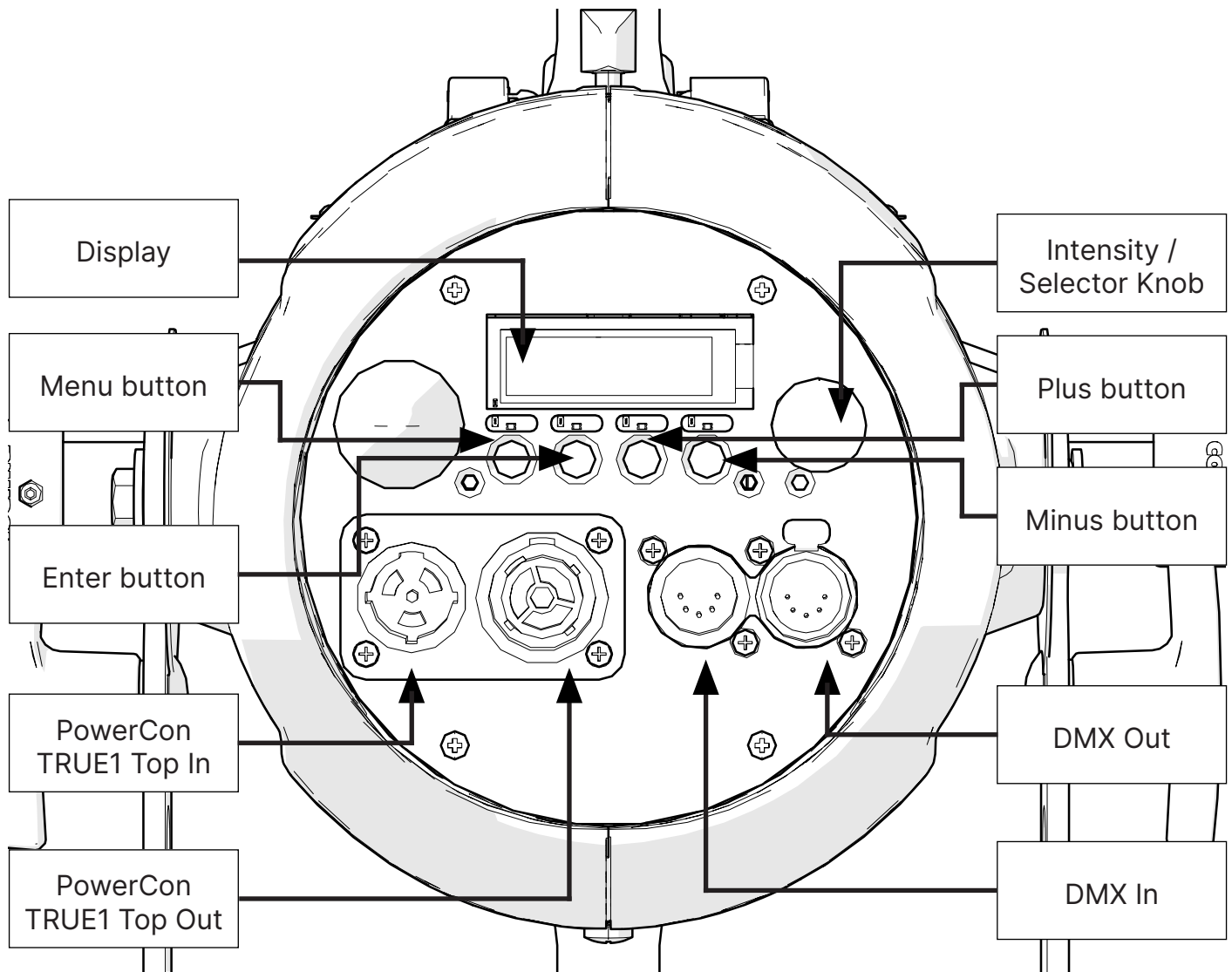
Weight
8.3 Kg (18.3 lbs)
7.75 Kg (17.09 lbs)
8.25 Kg (18.19 lbs)

3.4 Unit's main components



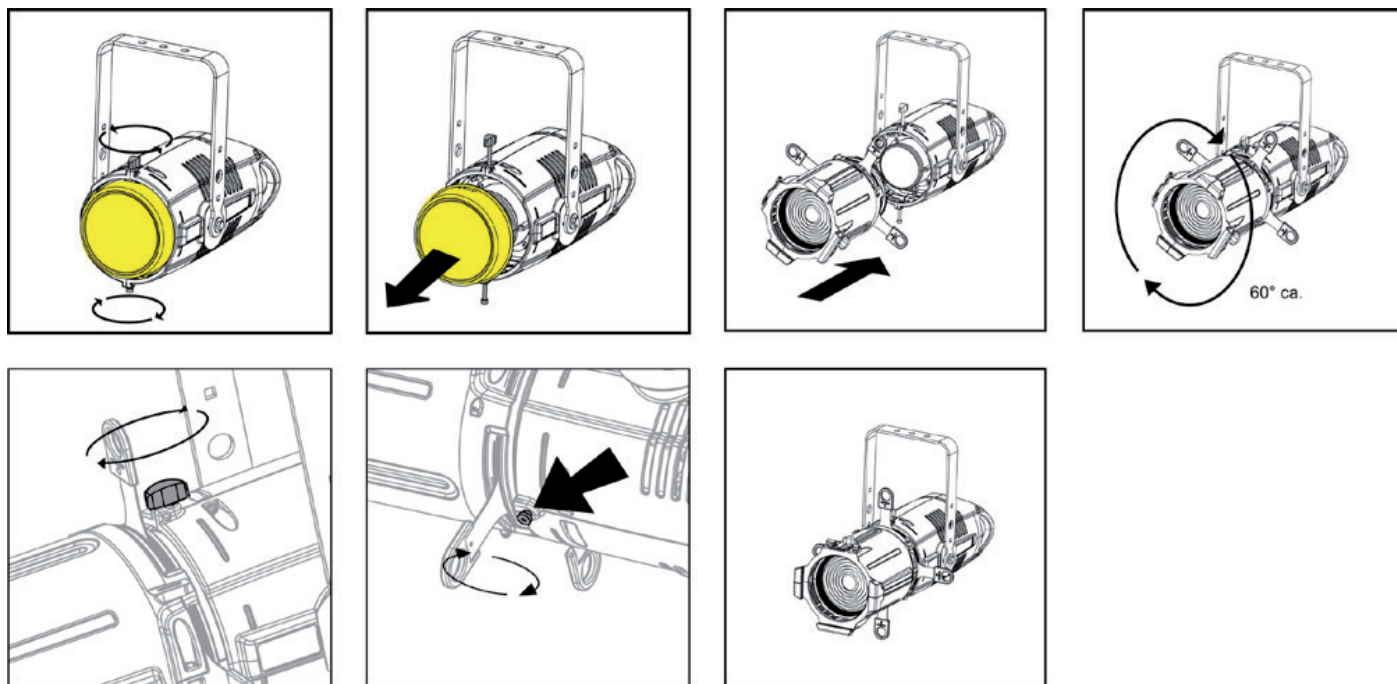
Components description	
A	Adjustable yoke
B	Iris (optional)
C	Gobo holder (included)
D	Lens adjusting handles
E	Yoke locking handle
F	Gel frame locking spring
G	Profile blade
H	Interchangeable optic

3.5 Back panel description



4. Installation

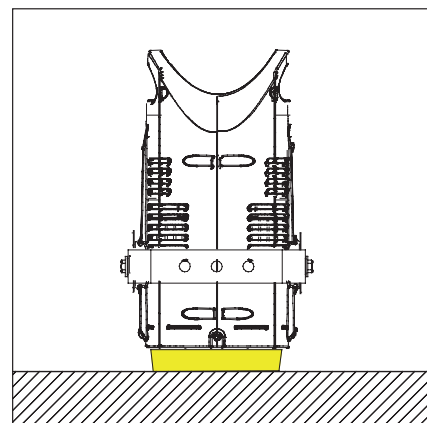
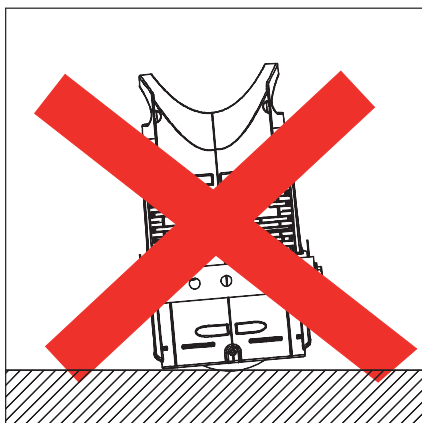
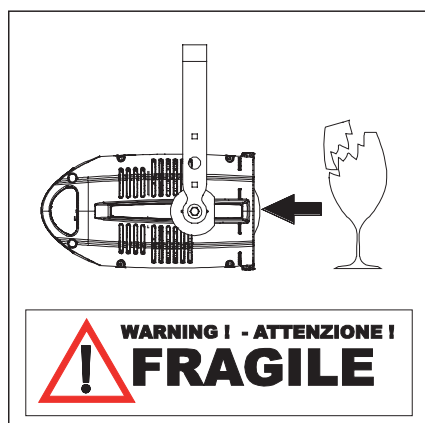
4.1 Optical installation



Remove the frontal cap by loosening the upper and lower screws enough to free the cap itself, set the optic's flange tilted about 60°. Insert the optic's flange into the body's receptacle and turn the optic 60° until it is firmly assembled to the projector body, free to rotate but not free to detach itself from the body. Ensure the optic to the body by tightening the two screws previously loosened.

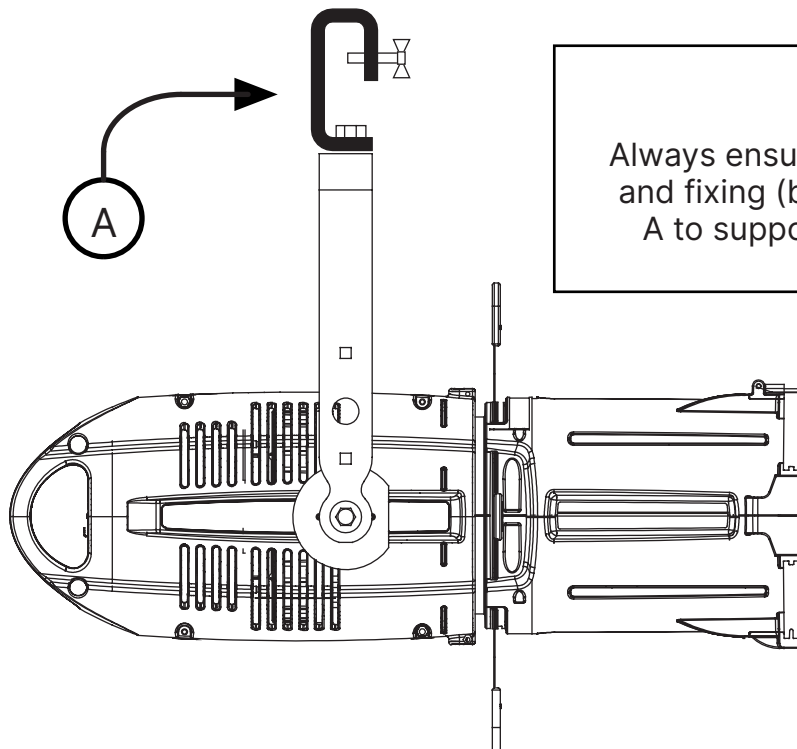
Warning!!

When the protective cap is removed, never lean the fixture facing down.
The front lens can be seriously damaged.



4.2 Mechanical installation

LEDko FullSpectrum 6 HD-R may be hung from an appropriate structure in any position or on tripod. If hanging the fixture from a lighting truss or similar, we recommend the use of an appropriate clamp “A”, as shown in the following diagram.



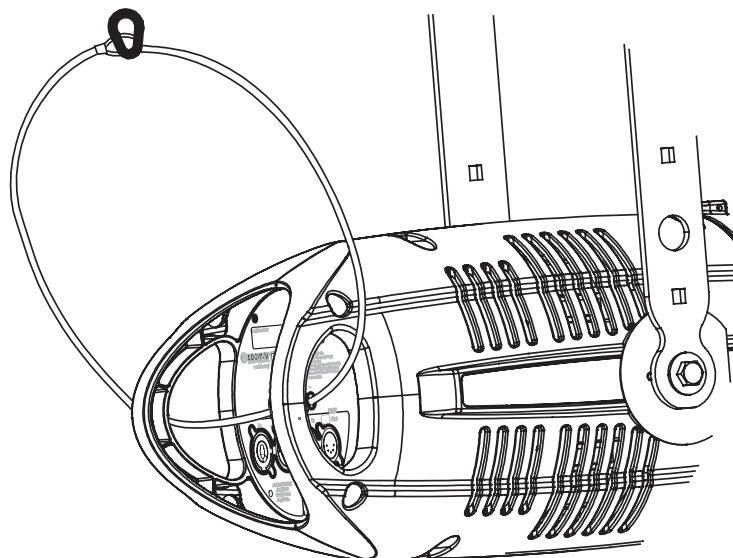
Warning!!

Always ensure that your support structure and fixing (bolts, clamps, etc...) are rated A to support the weight of the fixture.

4.3 Safety chain

When hanging it is recommended to use a safety chain, as required by current legislation. The safety chain must pass through the handles of the unit and then attached to the structure.

If using steel cables and chains not 's production, make sure they are suitable to support the weight of the unit according to normative UL/ETL (required: the weight of 6 complete devices for at least one hour).



4.4 Adjusting unit's tilt

In order to adjust the tilt of the unit simply loose the side handle adjust the tilt and lock the yoke by tightening the handle again.

5. Powering up

5.1 Operating voltage and frequency

The unit may operate at voltage ranges from 80 to 264 V at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **LEDko FullSpectrum 6 HD-R** will automatically adjust its operation to suit any frequency or voltage within this range.

5.2 Connection to mains power

Mains cable characteristics

The mains cable provided is thermally resistant, complying to the most recent International standards.

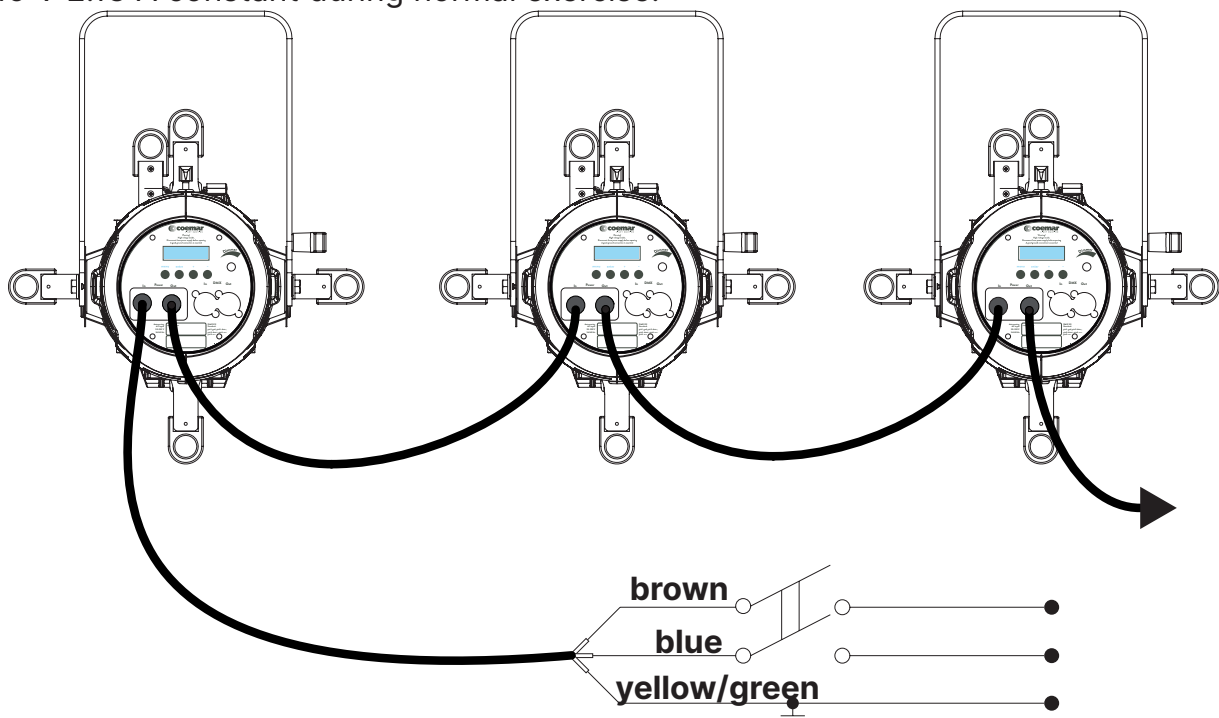
Note: in case of cable replacement, similar cable with comparable thermal resistant qualities must be used exclusively (cable 3 X 1,5 ø external 10 mm, rated 300/500V, tested to 2 KV, operating temperature -40°C + 180°C, Coemar cod. CV5311).

Connection to mains power

LEDko FullSpectrum 6 HD-R is equipped with two power connectors, one as input and one as output, which can be used to feed up to 8 (at 230 V) or 4 (at 115 V) fixtures.

The max absorption of **LEDko FullSpectrum 6 HD-R** is reported in the following table:

- 230 V 1.06 A constant during normal exercise.
- 115 V 2.13 A constant during normal exercise.



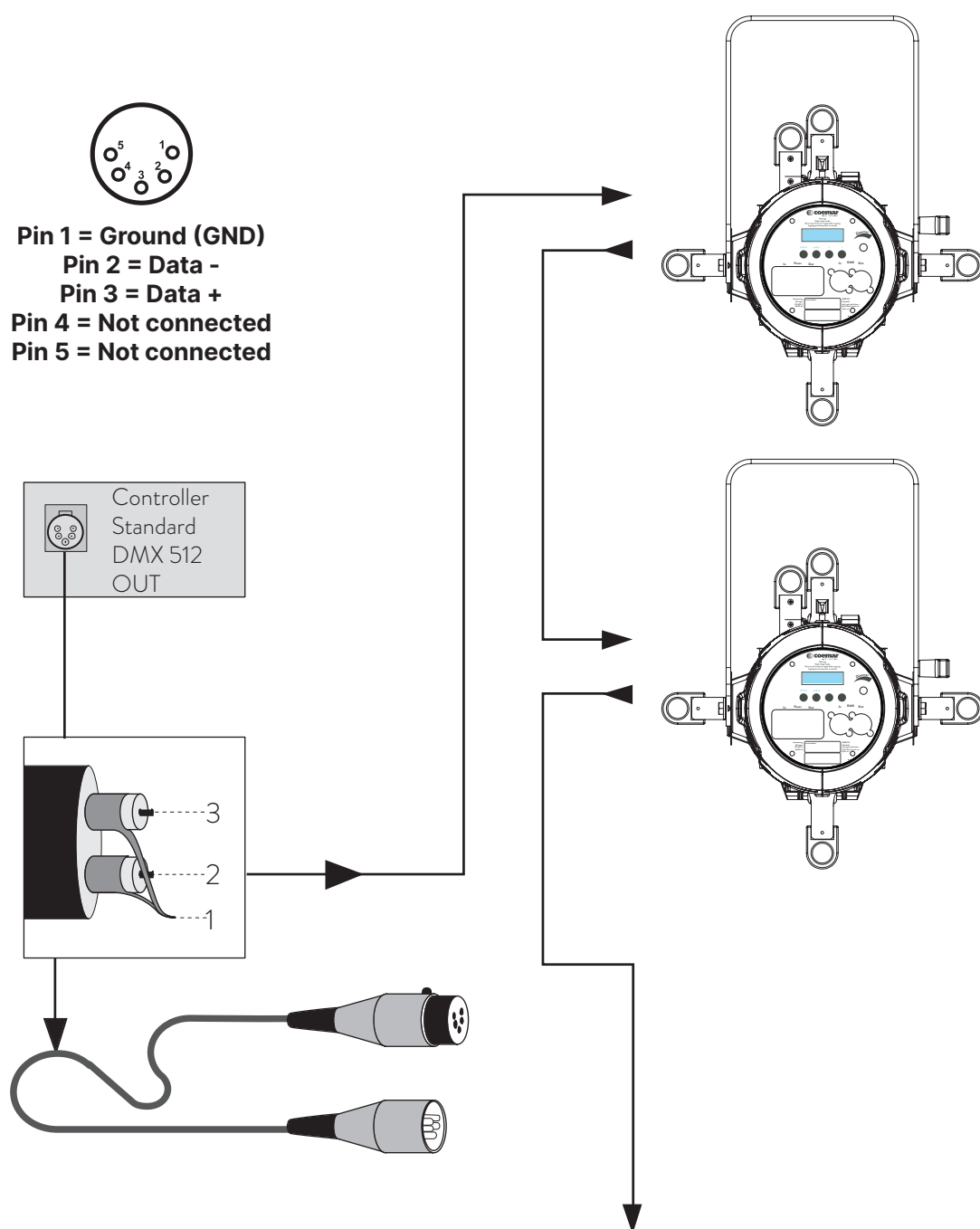
Warning!!

- The use of a thermal/magnetic circuit breaker is recommended. Strict adherence to regulatory norms is strongly recommended.
- **LEDko +** should not be powered through a dimmer as this may damage the internal switching power supply.
- Prior to connecting the device to mains power, ensure that the mains characteristics are within the recommended range for the use of **LEDko +**.
- All cabling and connections should be carried out by a suitably qualified personnel.

6. Control signal connections

6.1 Control signal connection by XLR5 plugs

The digital control signal is transmitted to the projector via a two pole cable screened in according to the International standards for DMX 512 data transmission. The connection must be serial, using connectors XLR5 male and female located on the back of **LEDko Full-Spectrum 6 HD-R** labelled DMX512 IN e OUT.



Warning!

Make sure that screening and conductors are not in contact one another or with the metal housing of the connector.

Pin#1 and housing must never be connected to the power supply unit.

7. Turning on the projector

After having followed the preceding steps described, proceed with the power supply and turn on the projector connecting it to the mains power.

The software version installed on the internal microprocessors will be shown on the display, suddenly it will show the current DMX addressing. If the address blinks, it means that the DMX signal has not been received. Check the connection cable and the mixer functioning.

7.1 DMX address of the unit

Each projector can use **16 / 7 / 1**, **Studio mode**, **RGB mode**, **fine RGB mode** or **Sunrise mode** for its complete operation and is controlled by a DMX 512 signal.

DMX addressing

When powered up initially, each projector will show A001, which indicates DMX address 001; for example, when set at 16 channels a projector thus addressed will respond to commands of channel 1 to 16 from your DMX 512 controller. A second unit must be addressed as A017, a third one as A033 and so on. The operation must be carried out on every LEDko FullSpectrum 6 HD which has an address different from A001.

Altering the DMX address:

1. Press the + or – button until the display shows the required DMX address. The digits on the display will blink to indicate that the variation has not been registered.
2. Press the enter key to confirm your selection. The digits on the display panel will cease to blink and the projector will now respond to the new address.

Note: by holding the + or – button down the scrolling will be faster; thus allowing a faster selection



menu

enter

+

-



It means the projector has entered protection



It means there is an error, it flashes intermittently with address



Wireless Enabled



The keys are locked

Warning!!

If you alter the DMX address with no DMX signal connected, the digits on the display panel will continue to flash even after you have pressed ENTER button to confirm the address.

8. DMX chart

8.1 DMX modes

DMX channels ↓	16 channels	7 channels	1 channel	Studio mode	RGB mode	fine RGB mode	Sunrise mode
1	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer
2	Red	Red		White Tone	Dimmer Fine	Dimmer Fine	Dimmer Fine
3	Green	Green		Green Saturation	Red	Red	Proportional CCT
4	Blue	Blue		Saturation	Green	Red Fine	Step CCT
5	Cyan	Cyan		Hue	Blue	Green	Green Saturation
6	Lime	Lime		Dimmer Fine	White Tone	Green Fine	Special Function
7	Amber	Amber		Special Function	Saturation	Blue	
8	Strobe Effect				Strobe Effect	Blue Fine	
9	Dimmer Fine				Special Function	White Tone	
10	Special Function					Saturation	
11	Red Tone					Strobe Effect	
12	Green Tone					Special Function	
13	Blue Tone						
14	White Tone						
15	Green Saturation						
16	Saturation						

8.2 DMX Chart 16, 7, 1 channels

channel 16 7 1			function	type of control	effect	decimal		percentage	
1	1	1 ²	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	- 255	0%	- 100%
2	2	-	red	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
3	3	-	green	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
4	4	-	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
5	5	-	cyan	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
6	6	-	lime	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
7	7	-	amber	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
8	-	-	strobe effect	step	no effect	0	- 9	0%	- 4%
				proportional	variable speed strobe effect, from slow to fast	10	- 57	4%	- 22%
				step	stop strobe	58	- 59	23%	- 23%
				proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	- 108	24%	- 42%
				step	stop strobe	109	- 110	43%	- 43%
				proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	- 159	44%	- 62%
				step	stop strobe	160	- 161	63%	- 63%
				proportional	random strobe effect with variable speed from slow to fast	162	- 207	64%	- 81%
				step	stop strobe	208	- 209	82%	- 82%
				proportional	random strobe effect with variable speed from slow to fast	210	- 255	82%	- 100%
9	-	-	dimmer fine	proportional	fine dimmer control 16 bit	0	- 255	0%	- 100%
10	-	-	special functions	step	park	0	- 9	0%	- 4%
					no effect	10	- 84	4%	- 33%
					fan at SILENT mode	85	- 96	33%	- 38%
					fan at STUDIO mode	97	- 108	38%	- 42%
					fan at AUTO mode	109	- 120	43%	- 47%
				proportional	fan speed control	121	- 133	47%	- 52%
				step	enables the automatic display blackout	134	- 185	53%	- 73%
					disables the automatic display blackout	186	- 199	73%	- 78%
					no effect	200	- 255	78%	- 100%

11 ¹	-	-	red tone	step	no effect	0	-	9	0%	-	4%
					COR01 - GELS RED 1	10	-	34	4%	-	13%
					COR02 - GELS RED 2	35	-	59	14%	-	23%
					COR03 - GELS RED 3	60	-	84	24%	-	33%
					COR04 - GELS RED 4	85	-	109	33%	-	43%
					COR05 - GELS RED 5	110	-	134	43%	-	53%
					COR06 - GELS RED 6	135	-	159	53%	-	62%
					COR07 - GELS RED 7	160	-	184	63%	-	72%
					COR08 - GELS RED 8	185	-	209	73%	-	82%
					COR09 - GELS RED 9	210	-	234	82%	-	92%
					COR10 - GELS RED 10	235	-	255	92%	-	100%
12 ¹	-	-	green tone	step	no effect	0	-	9	0%	-	4%
					COG01 - GELS GREEN 1	10	-	34	4%	-	13%
					COG02 - GELS GREEN 2	35	-	59	14%	-	23%
					COG03 - GELS GREEN 3	60	-	84	24%	-	33%
					COG04 - GELS GREEN 4	85	-	109	33%	-	43%
					COG05 - GELS GREEN 5	110	-	134	43%	-	53%
					COG06 - GELS GREEN 6	135	-	159	53%	-	62%
					COG07 - GELS GREEN 7	160	-	184	63%	-	72%
					COG08 - GELS GREEN 8	185	-	209	73%	-	82%
					COG09 - GELS GREEN 9	210	-	234	82%	-	92%
					COG10 - GELS GREEN 10	235	-	255	92%	-	100%
13 ¹	-	-	blue tone	step	no effect	0	-	9	0%	-	4%
					COB01 - GELS BLUE 1	10	-	34	4%	-	13%
					COB02 - GELS BLUE 2	35	-	59	14%	-	23%
					COB03 - GELS BLUE 3	60	-	84	24%	-	33%
					COB04 - GELS BLUE 4	85	-	109	33%	-	43%
					COB05 - GELS BLUE 5	110	-	134	43%	-	53%
					COB06 - GELS BLUE 6	135	-	159	53%	-	62%
					COB07 - GELS BLUE 7	160	-	184	63%	-	72%
					COB08 - GELS BLUE 8	185	-	209	73%	-	82%
					COB09 - GELS BLUE 9	210	-	234	82%	-	92%
					COB10 - GELS BLUE 10	235	-	255	92%	-	100%
14	-	-	white tone	step	no effect	0	-	9	0%	-	4%
					2.700 K	10	-	15	4%	-	6%
				proportional	proportional value from 2.700 K to 3.200 K	16	-	30	6%	-	12%
				step	3.200 K	31	-	45	12%	-	18%
				proportional	proportional value from 3.200 K to 4.000 K	46	-	60	18%	-	24%
				step	4.000 K	61	-	75	24%	-	29%
				proportional	proportional value from 4.000 K to 5.000 K	76	-	90	30%	-	35%
				step	5.000 K	91	-	105	36%	-	41%
				proportional	proportional value from 5.000 K to 5.600 K	106	-	120	42%	-	47%
				step	5.600 K	121	-	135	47%	-	53%
				proportional	proportional value from 5.600 K to 7.000 K	136	-	150	53%	-	59%
				step	7.000 K	151	-	165	59%	-	65%
				proportional	proportional value from 7.000 K to 8.000 K	166	-	180	65%	-	71%
				step	8.000 K	181	-	195	71%	-	76%
				proportional	proportional value from 8.000 K to 9.000 K	196	-	210	77%	-	82%
				step	9.000 K	211	-	225	83%	-	88%
				proportional	proportional value from 9.000 K to 10.000 K	226	-	240	89%	-	94%
				step	10.000 K	241	-	255	95%	-	100%

15 ³	-	-	green saturation	step	no effect	0			0%		
				proportional	exalts the green color in the mixing and diminishes the presence of magenta	1	-	127	0%	-	50%
				step	no effect	128			50%		
				proportional	diminishes the presence of green in the mixing and exalts the magenta color	129	-	254	51%	-	99%
				step	no effect	255			100%		
16 ⁴	-	-	saturation	proportional	the white tone fades to the tone built with the RGBCLA channels	0	-	255	0%	-	100%
Note 1: channels involving 11 - 12 - 13 macro colors can also be obtained by mixing channels 2 - 3 - 4 - 5 - 6 - 7.											
Note 2: the one channel function mode can be selected through the “DMX SETTINGS” menu.											
Note 3: the rest position of the green saturation is 128. Diminishing the DMX value augments the presence of the green color. Increasing the DMX value augments the presence of magenta.											
Note 4: increasing the value of the saturation DMX channel the white tone (channel 14) will fade to the color selected by the channel 2 - 3 - 4 - 5 - 6 - 7.											
Projector: LEDko FullSpectrum 6 HD-R					Chart name: DMX512 function				software version: 0.76 or following		
Edition: 1											

8.3 DMX Chart Studio mode

channel	function	type of control	effect	decimal		percentage	
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	- 255	0%	- 100%
2	white tone	step	2.700 K	0	- 15	0%	- 6%
		proportional	proportional value from 2.700 K to 3.200 K	16	- 30	6%	- 12%
		step	3.200 K	31	- 45	12%	- 18%
		proportional	proportional value from 3.200 K to 4.000 K	46	- 60	18%	- 24%
		step	4.000 K	61	- 75	24%	- 29%
		proportional	proportional value from 4.000 K to 5.000 K	76	- 90	30%	- 35%
		step	5.000 K	91	- 105	36%	- 41%
		proportional	proportional value from 5.000 K to 5.600 K	106	- 120	42%	- 47%
		step	5.600 K	121	- 135	47%	- 53%
		proportional	proportional value from 5.600 K to 7.000 K	136	- 150	53%	- 59%
		step	7.000 K	151	- 165	59%	- 65%
		proportional	proportional value from 7.000 K to 8.000 K	166	- 180	65%	- 71%
		step	8.000 K	181	- 195	71%	- 76%
		proportional	proportional value from 8.000 K to 9.000 K	196	- 210	77%	- 82%
		step	9.000 K	211	- 225	83%	- 88%
		proportional	proportional value from 9.000 K to 10.000 K	226	- 240	89%	- 94%
		step	10.000 K	241	- 255	95%	- 100%
3 ¹	green saturation	step	no effect	0		0%	
		proportional	exalts the green color in the mixing and diminishes the presence of magenta	1	- 127	0%	- 50%
		step	no effect	128		50%	
		proportional	diminishes the presence of green in the mixing and exalts the green color	129	- 254	51%	- 99%
		step	no effect	255		100%	
4	saturation	proportional	the white tone fades to the tone built with the HUE channel	0	- 255	0%	- 100%
5 ²	hue	proportional	reproduce the color crossfades around the color space	0	- 255	0%	- 100%
6	dimmer fine	proportional	fine dimmer control 16 bit	0	- 255	0%	- 100%
7	special functions	step	park	0	- 9	0%	- 4%
			no effect	10	- 84	4%	- 33%
			fan at SILENT mode	85	- 96	33%	- 38%
			fan at STUDIO mode	97	- 108	38%	- 42%
			fan at AUTO mode	109	- 120	43%	- 47%
		proportional	fan speed control	121	- 133	47%	- 52%
		step	enables the automatic display blackout	134	- 185	53%	- 73%
			disables the automatic display blackout	186	- 199	73%	- 78%
			no effect	200	- 255	78%	- 100%
Note 1: the rest position of the green saturation is 128. Diminishing the DMX value augments the presence of the green color. Increasing the DMX value augments the presence of magenta.							
Note 2: increasing the value of the saturation DMX channel (channel 4) the white light will fade to the color selected with the HUE channel (channel 5)							
Projector: LEDko FullSpectrum 6 HD-R Edition: 1			Chart name: DMX512 function		software version: 0.76 or following		

8.4 DMX Chart RGB mode

channel	function	type of control	effect	decimal		percentage	
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	- 255	0%	- 100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0	- 255	0%	- 100%
3	red	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
4	green	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
5	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
6	white tone	step	no effect	0	- 9	0%	- 4%
			2.700 K	10	- 15	4%	- 6%
		proportional	proportional value from 2.700 K to 3.200 K	16	- 30	6%	- 12%
		step	3.200 K	31	- 45	12%	- 18%
			proportional value from 3.200 K to 4.000 K	46	- 60	18%	- 24%
		step	4.000 K	61	- 75	24%	- 29%
			proportional value from 4.000 K to 5.000 K	76	- 90	30%	- 35%
		step	5.000 K	91	- 105	36%	- 41%
			proportional value from 5.000 K to 5.600 K	106	- 120	42%	- 47%
		step	5.600 K	121	- 135	47%	- 53%
			proportional value from 5.600 K to 7.000 K	136	- 150	53%	- 59%
		step	7.000 K	151	- 165	59%	- 65%
			proportional value from 7.000 K to 8.000 K	166	- 180	65%	- 71%
		step	8.000 K	181	- 195	71%	- 76%
			proportional value from 8.000 K to 9.000 K	196	- 210	77%	- 82%
		step	9.000 K	211	- 225	83%	- 88%
			proportional value from 9.000 K to 10.000 K	226	- 240	89%	- 94%
		step	10.000 K	241	- 255	95%	- 100%
7 ¹	saturation	proportional	the white tone fades to the tone built with the RGB channels	0	- 255	0%	- 100%
8	strobe effect	step	no effect	0	- 9	0%	- 4%
		proportional	variable speed strobing effect, from slow to fast	10	- 57	4%	- 22%
		step	stop strobe	58	- 59	23%	- 23%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	- 108	24%	- 42%
			stop strobe	109	- 110	43%	- 43%
		proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	- 159	44%	- 62%
			stop strobe	160	- 161	63%	- 63%
		proportional	random strobe effect with variable speed from slow to fast	162	- 207	64%	- 81%
		step	stop strobe	208	- 209	82%	- 82%
		proportional	random strobe effect with variable speed from slow to fast	210	- 255	82%	- 100%

9	special functions	step	park	0	-	9	0%	-	4%
			no effect	10	-	84	4%	-	33%
			fan at SILENT mode	85	-	96	33%	-	38%
			fan at STUDIO mode	97	-	108	38%	-	42%
			fan at AUTO mode	109	-	120	43%	-	47%
		proportional	fan speed control	121	-	133	47%	-	52%
		step	enables the automatic display blackout	134	-	185	53%	-	73%
			disables the automatic display blackout	186	-	199	73%	-	78%
			no effect	200	-	255	78%	-	100%
Note 1: increasing the value of the saturation DMX channel the white tone (channel 6) will fade to the color selected by the channel 3, 4 or 5									
Projector: LEDko FullSpectrum 6 HD-R		Chart name: DMX512 function			software version: 0.76 or following				
Edition: 1									

8.5 DMX Chart fine RGB mode

channel	function	type of control	effect	decimal		percentage	
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	- 255	0%	- 100%
2	dimmer fine	step	fine dimmer control 16 bit	0	- 255	0%	- 100%
3	red	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
4	red fine	step	fine red control 16 bit	0	- 255	0%	- 100%
5	green	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
6	green fine	step	fine green control 16 bit	0	- 255	0%	- 100%
7	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
8	blue fine	step	fine blue control 16 bit	0	- 255	0%	- 100%
9	white tone	step	no effect	0	- 9	0%	- 4%
			2.700 K	10	- 15	4%	- 6%
		proportional	proportional value from 2.700 K to 3.200 K	16	- 30	6%	- 12%
		step	3.200 K	31	- 45	12%	- 18%
		proportional	proportional value from 3.200 K to 4.000 K	46	- 60	18%	- 24%
		step	4.000 K	61	- 75	24%	- 29%
		proportional	proportional value from 4.000 K to 5.000 K	76	- 90	30%	- 35%
		step	5.000 K	91	- 105	36%	- 41%
		proportional	proportional value from 5.000 K to 5.600 K	106	- 120	42%	- 47%
		step	5.600 K	121	- 135	47%	- 53%
		proportional	proportional value from 5.600 K to 7.000 K	136	- 150	53%	- 59%
		step	7.000 K	151	- 165	59%	- 65%
		proportional	proportional value from 7.000 K to 8.000 K	166	- 180	65%	- 71%
		step	8.000 K	181	- 195	71%	- 76%
		proportional	proportional value from 8.000 K to 9.000 K	196	- 210	77%	- 82%
		step	9.000 K	211	- 225	83%	- 88%
		proportional	proportional value from 9.000 K to 10.000 K	226	- 240	89%	- 94%
		step	10.000 K	241	- 255	95%	- 100%
10 ¹	saturation	proportional	the white tone fades to the tone built with the RGB channels	0	- 255	0%	- 100%
11	strobe	step	no effect	0	- 9	0%	- 4%
		proportional	variable speed strobing effect, from slow to fast	10	- 57	4%	- 22%
		step	stop strobe	58	- 59	23%	- 23%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	- 108	24%	- 42%
		step	stop strobe	109	- 110	43%	- 43%
		proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	- 159	44%	- 62%
		step	stop strobe	160	- 161	63%	- 63%
		proportional	random strobe effect with variable speed from slow to fast	162	- 207	64%	- 81%
		step	stop strobe	208	- 209	82%	- 82%
		proportional	random strobe effect with variable speed from slow to fast	210	- 255	82%	- 100%

12	special functions	step	park	0	-	9	0%	-	4%
			no effect	10	-	84	4%	-	33%
			fan at SILENT mode	85	-	96	33%	-	38%
			fan at STUDIO mode	97	-	108	38%	-	42%
			fan at AUTO mode	109	-	120	43%	-	47%
		proportional	fan speed control	121	-	133	47%	-	52%
		step	enables the automatic display blackout	134	-	185	53%	-	73%
			disables the automatic display blackout	186	-	199	73%	-	78%
			no effect	200	-	255	78%	-	100%

Note 1: increasing the value of the saturation DMX channel the white tone (channel 6) will fade to the color selected by the channel 3, 4 or 5

Projector: LEDko FullSpectrum 6 HD-R	Chart name: DMX512 function	software version: 0.76 or following
Edition: 1		

8.6 DMX Chart SUNRISE mode

channel	function	type of control	effect	decimal			percentage		
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	-	255	0%	-	100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0	-	255	0%	-	100%
3	proportional cct	proportional	2.700 K	0			0%		
			proportional value from 2.700 K to 4000 K	1	-	44	0%	-	17%
			4.000 K	45			18%		
			proportional value from 4.000 to 5.000 K	46	-	79	18%	-	31%
			5.000 K	80			31%		
			proportional value from 5.000 to 5.600 K	81	-	100	32%	-	39%
			5.600 K	101			40%		
			proportional value from 5.600 K to 10.000 K	102	-	254	40%	-	100%
			10.000 K	255			100%		
4	step cct	step	no effect	0	-	9	0%	-	4%
			2.700 K	10	-	36	4%	-	14%
			3.200 K	37	-	63	15%	-	25%
			4.000 K	64	-	90	25%	-	35%
			5.000 K	91	-	117	36%	-	46%
			5.600 K	118	-	144	46%	-	56%
			7.000 K	145	-	171	57%	-	67%
			8.000 K	172	-	198	67%	-	78%
			9.000 K	199	-	225	78%	-	88%
			10.000 K	226	-	255	89%	-	100%
5	green saturation	step	no effect	0			0%		
		proportional	exalts the green color in the mixing and diminishes the presence of magenta	1	-	127	0%	-	50%
		step	no effect	128			50%		
		proportional	diminishes the presence of green in the mixing and exalts the green color	129	-	254	51%	-	99%
		step	no effect	255			100%		
6	special functions	step	park	0	-	9	0%	-	4%
			no effect	10	-	84	4%	-	33%
			fan at SILENT mode	85	-	96	33%	-	38%
			fan at STUDIO mode	97	-	108	38%	-	42%
			fan at AUTO mode	109	-	120	43%	-	47%
		proportional	fan speed control	121	-	133	47%	-	52%
		step	enables the automatic display blackout	134	-	185	53%	-	73%
			disables the automatic display blackout	186	-	199	73%	-	78%
			no effect	200	-	255	78%	-	100%

Note 1: If channels 3 and 4 are used simultaneously, channel 4 prevails.

Projector:
LEDko FullSpectrum 6 HD-R
Edition: 1

Chart name: DMX512 function

software version: 0.76 or
following

9. Setup via RDM

9.1 Quick guide to menu

The LEDko FullSpectrum 6 HD-R required RDM (Remote Device Management) to set up fixtures. Using an RDM compliant DMX controller, you can communicate with all the fixtures on a data link without needing to connect to each fixture individually. RDM lets you set the DMX addresses of all the fixtures on the link, carry out fixture configuration and retrieve fixture data including details of any error that has been logged. If two or more identical fixtures are set up with the same DMX address and in the same DMX mode, they will receive the same instructions and behave identically. Setting up identical fixtures with the same address is a good tool for troubleshooting unexpected behavior and an easy way to achieve synchronized action. Setting DMX addresses via RDM involves running a scan to identify the fixtures that are present on the data link and then allocating addresses either automatically or manually.

To use RDM:

1. Obtain an RDM-compatible controller such as the RDM UPGRADE INTERFACE B (cod. AC10011A001) application running on a Windows PC.
2. Use a USB cable to connect the PC to a USB/DMX interface box
3. Connect the interface box to the data link.
4. Power the fixture on and carry out an RDM discovery / scan in your RDM-compatible controller.
5. You can then configure or retrieve data from the fixtures on the data link.

9.2 RDM Chart

PARAMETER	DESCRIPTION
DMX ADDRESS	Set DMX Address: (1-512)
CURVE	Set Dimming Curve: Linear, Logarithmic, Exponential, Halogen, Standard
FREQUENCY	Fixed at 20.000 Hz
LOCK PIN	Set Lock Pin
LOCK STATE	Set Screen Lock
FACTORY DEFAULT	Factory Reset
PERSONALITY	Set Personality: 16 / 7 / 1 / Studio mode / RGB mode / fine RGB mode / Sunrise mode
SENSOR	Visualize Sensor
LED HOURS	Visualize Led Life Hours
DEVICE HOURS	Visualize Device Life Hours

9.3 RDM Error Chart

ERROR	DESCRIPTION	SOLUTION
MEMORY	Memory Reading Error	Perform A "Factory Reset"
HW MEMORY	Memory Hardware Error	Contact Coemar
DMX ADDR	DMX Addressing Error	The Personality Dimension Exceeds 512 Channels
NTC ERROR	Temperature Sensor Disconnected	Check Wiring NTC Led
SHORT NTC	Short-Circuited Temperature Sensor	Check Wiring NTC Led
OVER TEMP	Electronic Board Overtemperature	Ambient temperature too high, place the projector in an environment with temperature below 40°C

10. Display panel functions

10.1 Quick guide to menu

To access the functions menus just press the MENU button. Then press + or – buttons to scroll the pages and press the ENTER button to access to any other function.

By suitably using all the functions of **LEDko FullSpectrum 6 HD-R**, which can be activated through its display panel, it is possible to change some of the parameters and to add some functions. Changing the preset settings made by Coemar can vary the functions of the projector so that it will respond differently to the controller; therefore carefully read about the functions described here before carrying out any possible selection.

10.2 Rapid count

Through the display panel of **LEDko FullSpectrum 6 HD-R** it is possible to quickly change the various numbers displayed for the different functions in the following 3 manners:

1. Pressing the + or – buttons will cause the count to be quicker.
2. Pressing first + and then – and then holding them down simultaneously will cause the numbers to jump to the highest value.
3. Pressing first – and then + and then holding them down simultaneously will cause the number to jump to the lowest value.

10.3 On-board selector

In order to change quickly the CCT, the colors and many other settings, you can use the “**Intensity / Selector Knob**”; for example to change the CCT push the “**Intensity / Selector Knob**” you will see the CCT displayed and scroll to the CCT desired, push the “**Intensity / Selector Knob**” and a new screen will appear on the display where you can chose the CCT from 2.700 K to 20.000 K, once decided push again the “**Intensity / Selector Knob**”, now you can chose the light intensity from 255 to 0, by pushing another time the “**Intensity / Selector Knob**”.

QUICK START MODE: If you push the “**Intensity / Selector Knob**” when it is displayed the DMX address, it will open the fast menu. In this case you can choose the CCT, once selected push again the “**Intensity / Selector Knob**” and than choose the light intensity from 0 to 255.



This will be the first screen that will appear on the display once the projector is turned on. To change the DMX address press the “+” button and chose the DMX address desired.

N.B. If the projector is not connected to the DMX signal, A001 will blink intermittently

10.4 Main functions menu

By pressing the “**MENU**” button you can enter the **LEDko FullSpectrum 6 HD-R**’s main menu. **N.B.** Instead of use the “+”, “-” or “ENTER” buttons it is possible to use the **DIMMER knob** by rotating it. Rotate the **DIMMER knob** in clockwise sense to replicate the “+” button, in counterclockwise sense to replicate the “-” button or push it to replicate the “**ENTER**” button.

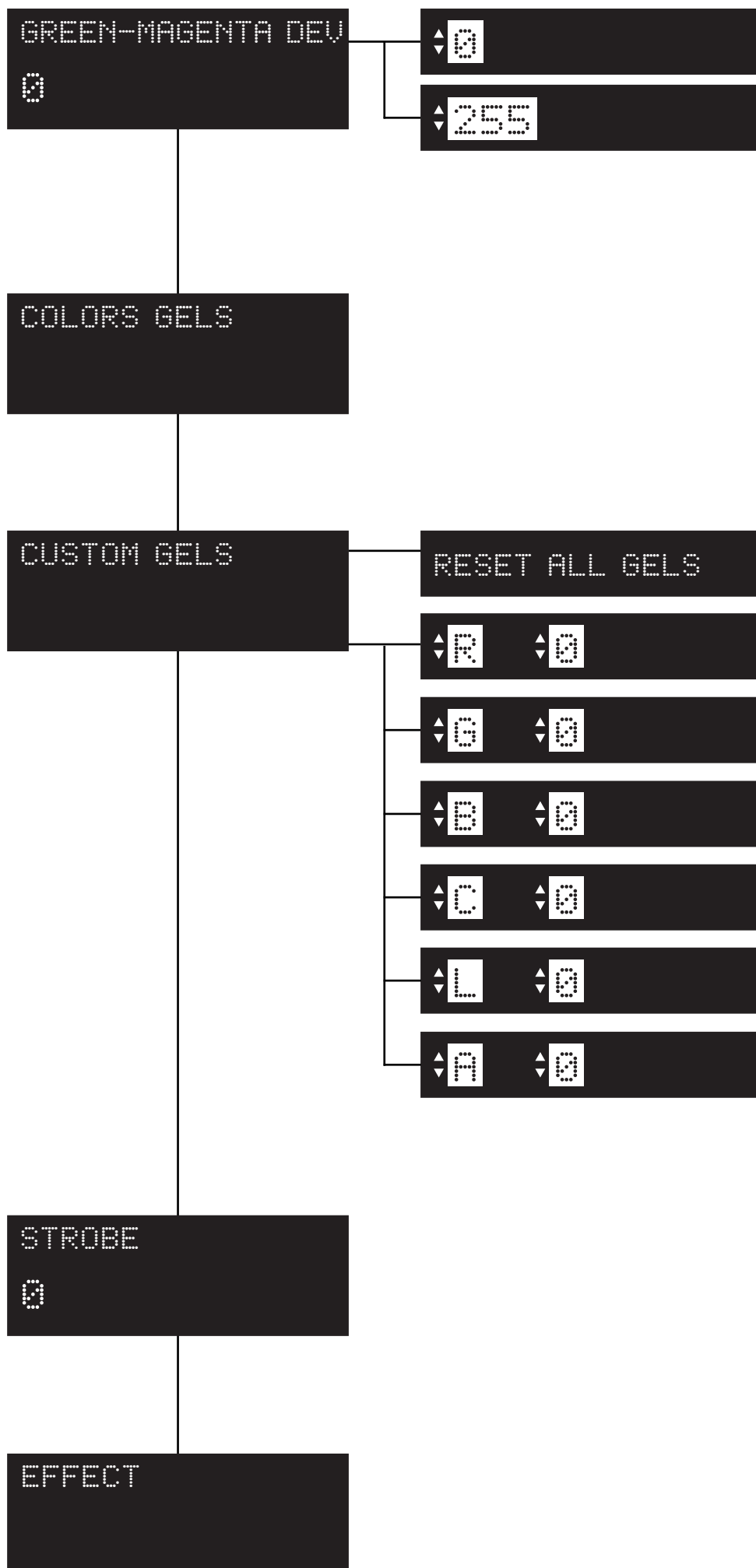
INTENSITY
80d

CCT
2700 K

- 2700 K
- 3000 K
- 3200 K
- 3500 K
- 4000 K
- 4500 K
- 5000 K
- 5600 K
- 6000 K
- 6500 K
- 20000 K

INTENSITY:
Allows to adjust the luminous output intensity from 0 to 255 (d: decimal units).

CCT:
This channel offers a preset library of various white CCT with a range that goes from 2.700 K and up to 20.000 K, manually selectable without the need of a DMX console.



GREEN-MAGENTA DEV:

Allows to adjust the luminous output intensity from 0 to 255 (d: decimal units).

COLOR GELS:

All the gels presets will appear under this menu.

CUSTOM GELS:

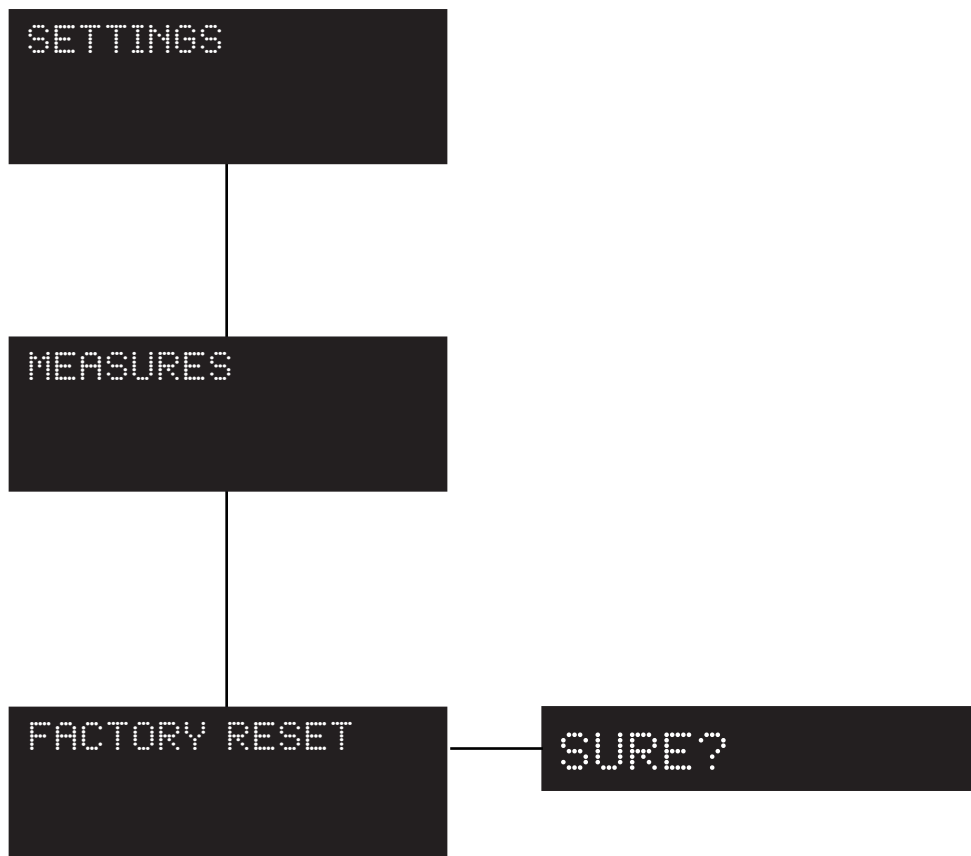
This settings allows you to create your own custom gel by mixing the six color at your will. Every color is adjustable from 0 to 255.

STROBE:

Manually sets the strobe DMX channel.

EFFECTS:

Effects settings (section **EFFECTS**).

**SETTINGS:**

Manually sets various settings of the projector (section **SETTINGS**).

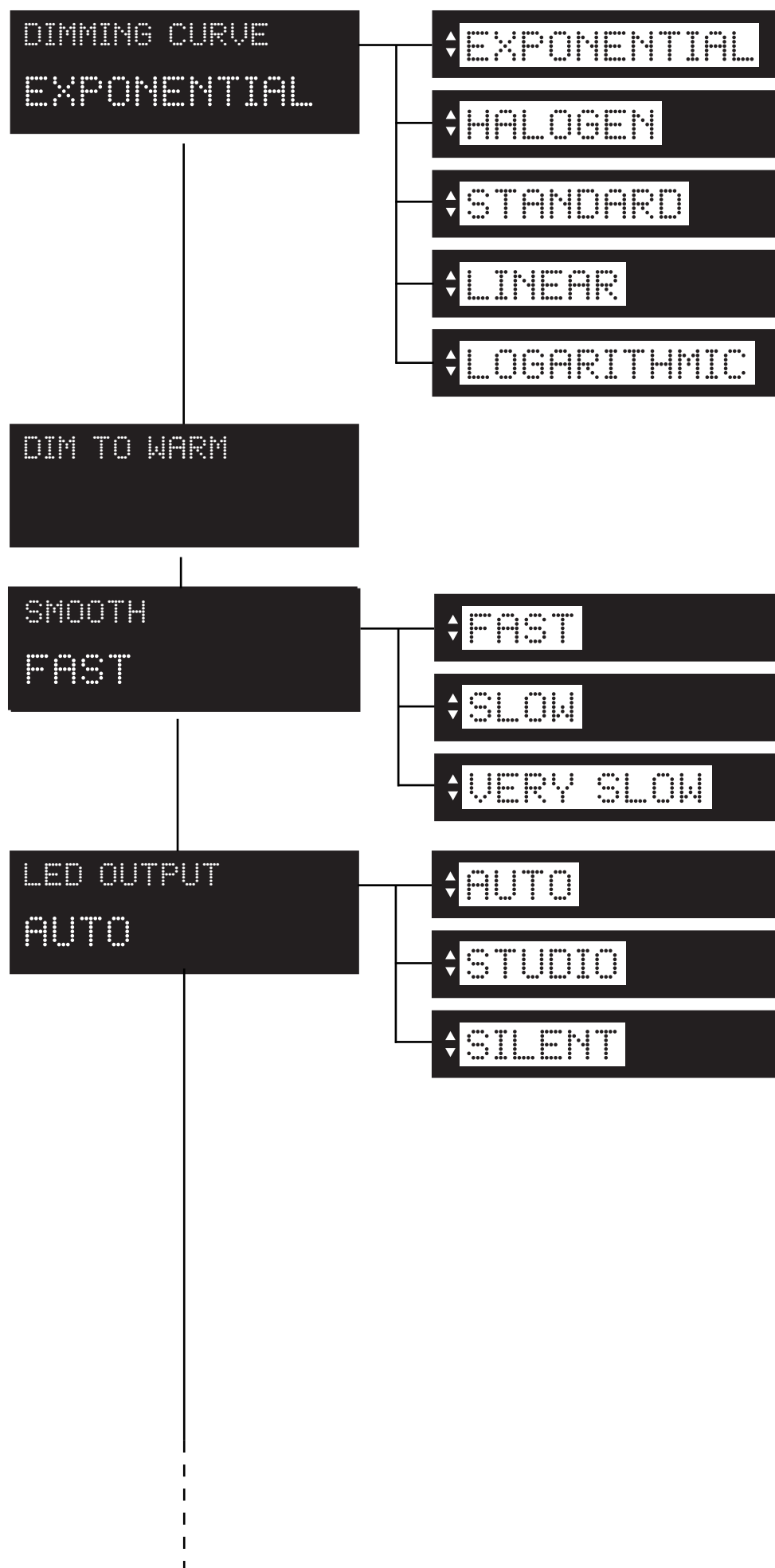
MEASURES:

Check all the measures and product status (section **MEASURES**).

FACTORY RESET:

Allows to return to the factory settings:
Light Intensity: 80
DMX Channels: 16
Fan: Auto mode.

10.5 Settings



DIMMING CURVE:

It allows the selection of different dimmer curves: exponential (default), halogen, standard, linear and logarithmic.

DIM TO WARM:

Inserts a softening of the dimmer dynamics and red shift. It works for all the CCTs.

SMOOTH:

Allows to change the speed of every dimming curve between **FAST** (standard), **SLOW**, **VERY SLOW**.
(Firmware version: 0.76 or following)

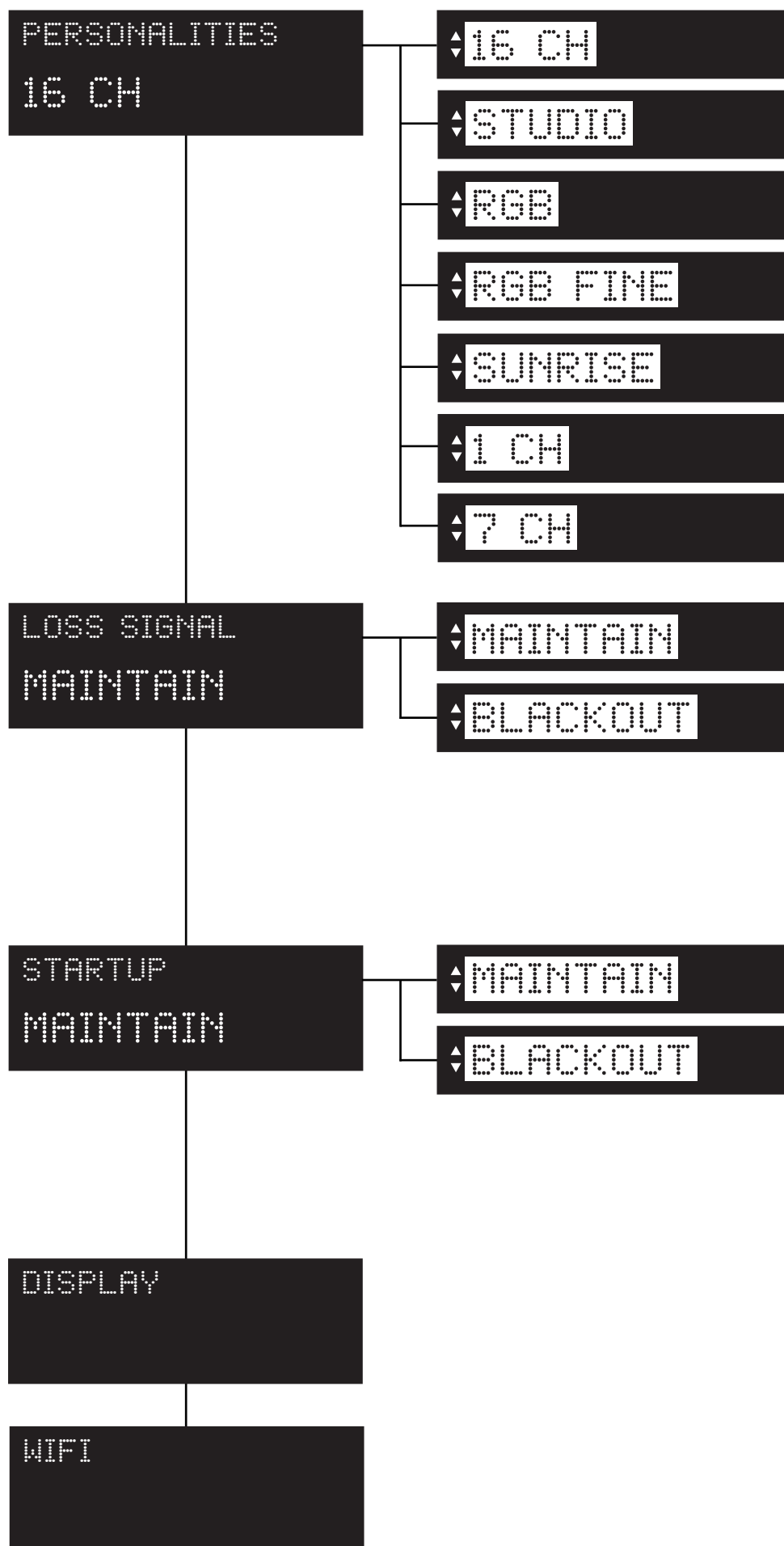
LED OUTPUT:

Manually sets the fan mode.

AUTO (default): Fan with automatic operating speed to guarantee maximum light output in all conditions of use, ideal for live events, exhibitions and architectural installations.

STUDIO: Fan at automatic operation speed with limited speed to guarantee silent operation of the product (moderately limited light output, will decrease in case of overheating) ideal for broadcast or theatre applications.

SILENT: This setting will keep the speed of the fan at the minimum level (moderately limited light output, will decrease in case of overheating) ideal for environments that require maximum silence.



PERSONALITIES:

It is possible to choose between **16**, **STUDIO**, **RGB**, **RGB FINE**, **SUNRISE**, **1** or **7** modalities, in which the projector will operate.

LOSS SIGNAL:

It is possible to choose between “maintain” (this function allows to keep the settings even in case of **LOSS SIGNAL**) and “blackout” (in case of **LOSS SIGNAL**, the projector will go into blackout).

STARTUP:

It is possible to choose between “maintain” (this function allows to keep the settings in case of **STARTUP**) and “blackout” (in case of **STARTUP**, the projector will go into blackout).

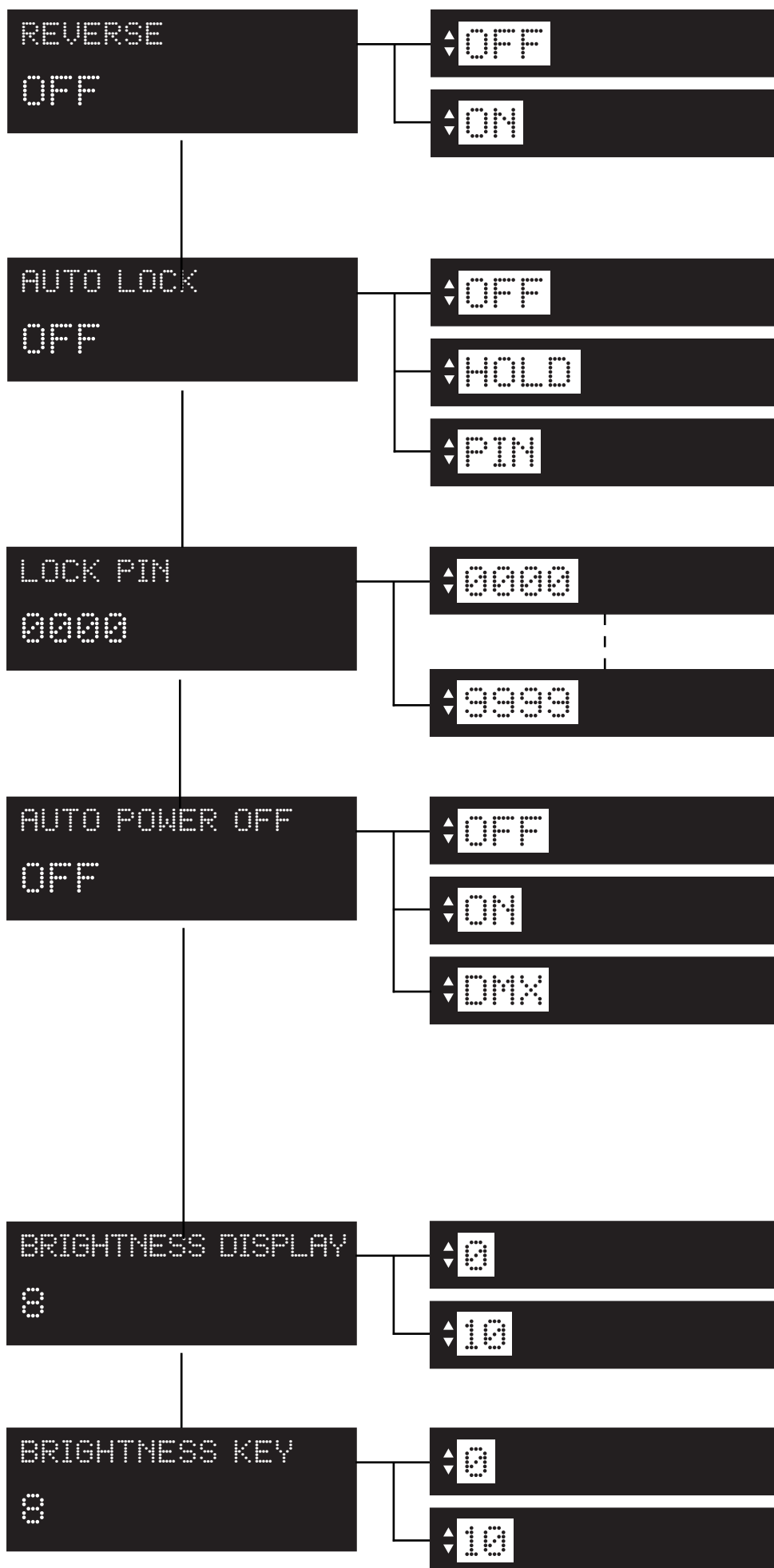
DISPLAY:

Display settings (section **DISPLAY**).

WIFI (OPTIONAL):

WiFi settings (section **WIFI**).

10.6 Display



REVERSE:

It allows to turn by 180° the reading of the display. When you chose "ON" wait the turn of the display without clicking.

AUTO LOCK:

Locks the keys.

OFF: Auto Lock function in OFF

HOLD: Press any key for 3 seconds to unlock.

PIN: Use your personal lock pin to unlock.

LOCK PIN:

Allows to set your personal lock pin (from 0000 to 9999).

AUTO POWER OFF:

OFF: Auto Power OFF in OFF

ON: Causes the projector display to turn off after 30 seconds of inactivity.

DMX: Causes the projector display to turn off after 30 seconds of inactivity, but the display will turn automatically ON in case of signal loss

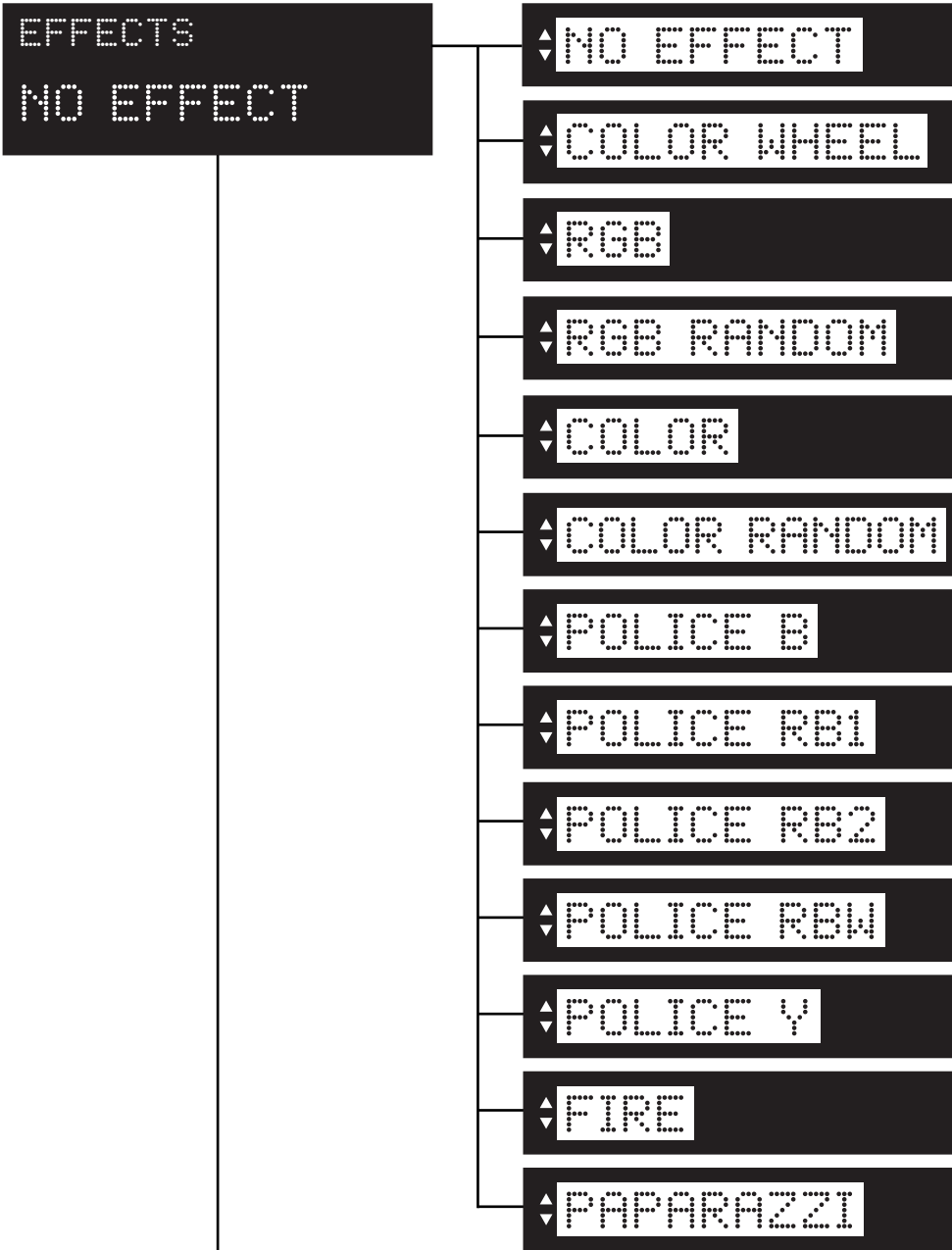
BRIGHTNESS DISPLAY:

Allows to change the brightness of the display (from 0 to 10).

BRIGHTNESS KEY:

Allows to change the brightness of the key (from 0 to 10).

10.7 Effects



EFFECTS:

It is possible to choose between the following effects:

COLOR WHEEL: replicates the color wheel by applying a fade effect between colors (Red, Yellow, Green, Cyan, Blue, Magenta);

RGB: replicates the RGB colors in rotation following the order Red, Green, Blue;

RGB RANDOM: replicates randomly the RGB colors in rotation

COLOR: replicates the color wheel (Red, Yellow, Green, Cyan, Blue, Magenta);

COLOR RANDOM: replicates randomly the color wheel (Red, Yellow, Green, Cyan, Blue, Magenta);

POLICE B: replicates the police flashing lights (type B);

POLICE RB1: replicates the police flashing lights (type RB1);

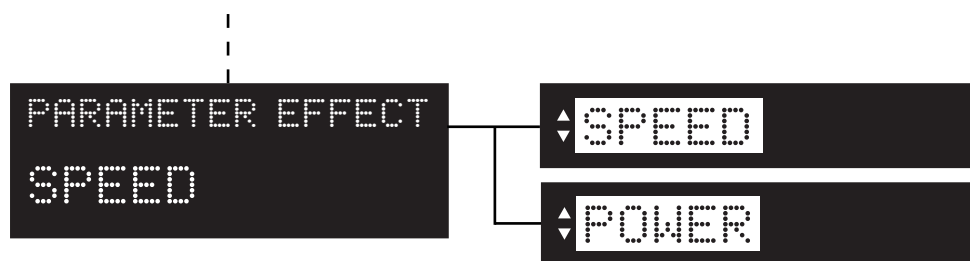
POLICE RB2: replicates the police flashing lights (type RB2);

POLICE RBW: replicates the police flashing lights (type RBW);

POLICE Y: replicates the yellow police flashing lights;

FIRE: replicates the effect of fire from minimum (candle type) to maximum (blaze type);

PAPARAZZI: replicates the Paparazzi effect, a random flashing white light.



PARAMETER EFFECT:

It allows to change the parameter of the effect selected.

SPEED: increases the speed of all effects;

POWER: increases the intensity of all effects;

N.B. When you select a parameter effect it works for all effects and not individually.

Here below a chart where you can see which parameter works with the associated effect.

EFFECT \ PARAMETER	PARAMETER	
	Speed	Power
Color Wheel	●	/
RGB	●	/
RGB Random	●	/
Color	●	/
Color Random	●	/
Police B	/	/
Police RB1	/	/
Police RB2	/	/
Police RBW	/	/
Police Y	/	/
Fire	●	●
Paparazzi	●	/

10.8 Measures

TEMPERATURES

° F	MIN	NOW	MAX
LED:	-°C	-°C	-°C
BOARD:	-°C	-°C	-°C

TEMP HISTORIES

° F	MIN	NOW	MAX
LED:	-°C	-°C	-°C
BOARD:	-°C	-°C	-°C

DMX INPUT

1	0
---	---

1

5

DMX REFRESH RATE

0 HZ

FAN STATUS

	%	RPM
LED:	-	-
AUX:	-	-

TEMPERATURES:

Shows the current temperature values of the fixture.

LED: shows the LED module temperature.

BOARD: shows the electronic board temperature.

TEMPERATURES HISTORIES:

Shows the history temperature of the fixture.

LED: shows the LED module temperature.

BOARD: shows the electronic board temperature.

DMX INPUT:

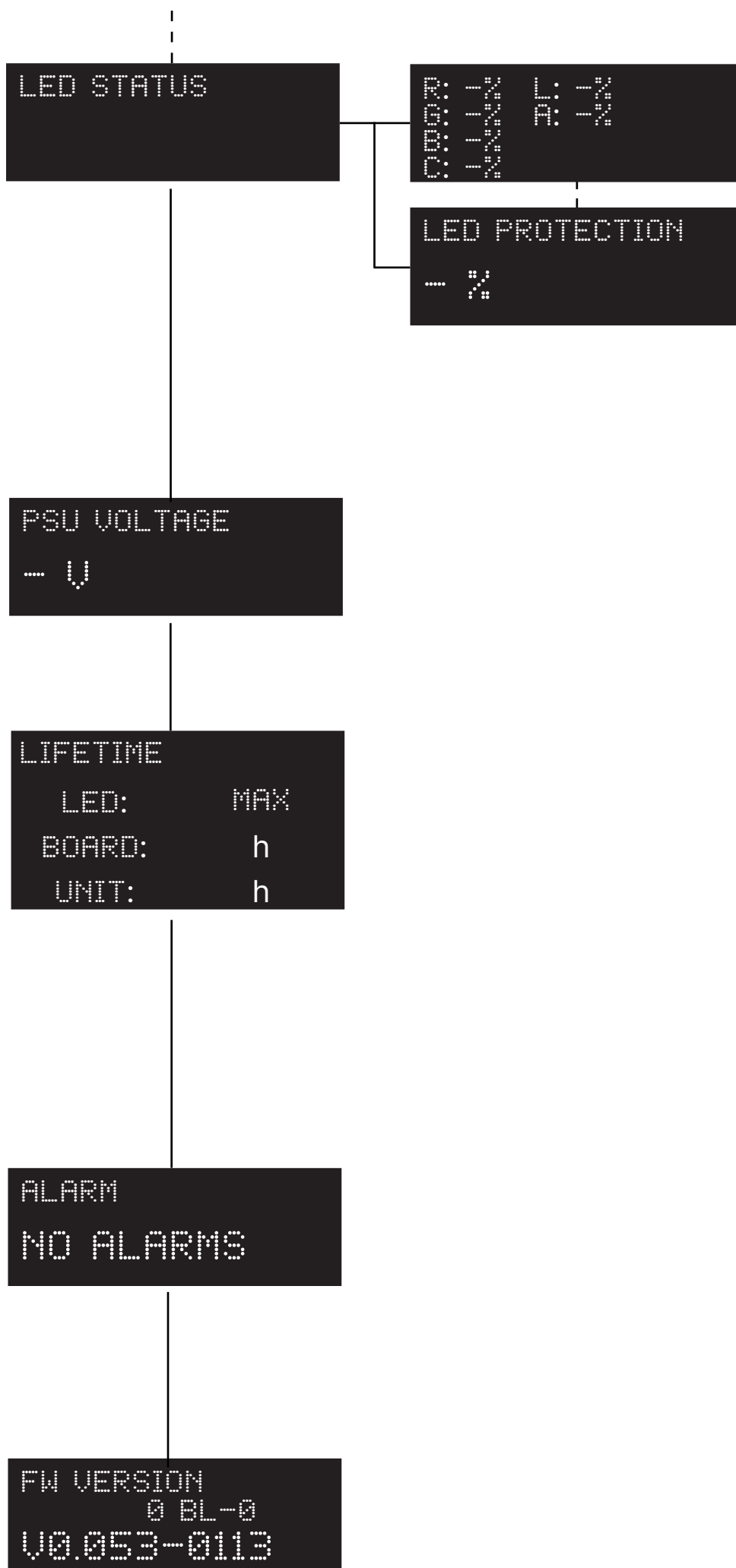
Shows the value of the DMX channels received by the fixture on every channel (from 1 to 5) that the fixture occupies on the line.

DMX REFRESH RATE:

Shows the refresh rate of the DMX signal sent by the console.

FAN STATUS:

Shows the percentage fan usage.



LED STATUS:
Shows the percentage value of the LED status.

LED PROTECTION:
Percentage of the maximum power in order to keep the projector in temperature.

PSU VOLTAGE:
Shows the power supply voltage.

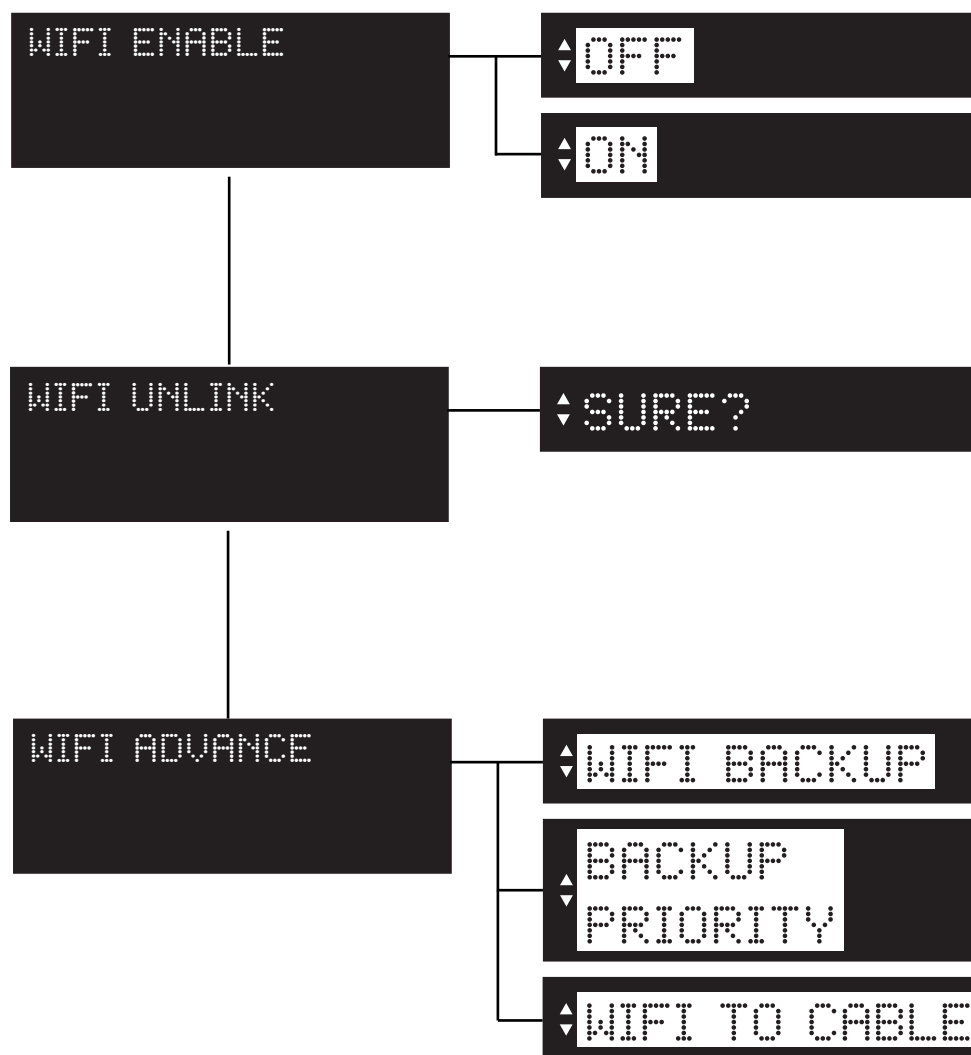
LIFETIME:
Shows the hour counter of the fixture.
LED: shows the overall LED module life.
BOARD: shows the overall LED module life currently installed.
UNIT LIFE: shows the overall hours of life of the fixture.
NOTE: this items can be reset in case of LED module replacement.

ALARM:
This menu eventually shows the alarm statuses if there is any (section **ERROR MESSAGES**).

FIRMWARE VERSION:
Shows the firmware version currently installed in the fixture (as you can see in the example).

11. Wi-Fi Menu (OPTIONAL)

11.1 Wi-Fi



WIFI ENABLE:

It allows enable all the Wi-Fi functions

WIFI UNLINK:

This function is used to disconnect the projector from the wireless transmitter.

WIFI ADVANCE:

WIFI BACKUP: Activate Backup mode (**Off / On**)

BACKUP PRIORITY:

Select the main DMX stream in backup mode: **cable or wireless**

WIFI TO CABLE: Replicate the DMX signal received via Wireless with the cable (**Off / On**)

ATTENTION: do not connect other sources, such as consoles, DMX when the function is active.

12. Special Function and Error Messages

12.1 Special functions of the fixture

Storing the DMX signal

To use the fixture without an active DMX console it is possible to store the DMX settings in two ways:

- Through the **PRESET** menu;
- Disconnecting the DMX signal when the fixture is on. When the signal is unconnected the fixtures stores the signal;

Automatic fan standby

To decrease the noise and the power consumption the cooling fan turns off after 40 seconds without emitting light.

12.2 Error messages

If a malfunction occurs, **LEDko FullSpectrum 6 HD-R** has a self-diagnostic system that will show the error message on the display. The following table will explain in detail the most common errors. If, despite of suggested intervention, the problem persists, call the **Coemar** Service Center.

Error code	Description
MEMORY	Memory Error Indicates that the projector has lost its memory and saved data
HW MEMORY	HW Memory Error Indicates that there is an Hardware Memory Error
DMX ADDR	DMX Address Error The projector address is too high and does not allow to receive all the necessary channels. We recall in this connection that some controllers do not generate all the 512 channels.
NTC ERROR	NTC Error LED temperature sensor missing or damaged.
SHORT NTC	Short NTC Error Error of the LED's sensor circuit.
FAN SPEED	Fan Speed Error Auto diagnostic routine found that the Fan may be damaged, contact Coemar assistance for the module replacement. IMPORTANT: to ensure the sensor is giving correct readings or that the fan rotates correctly, set the fan to the maximum level.
OVERTEMP	Over temperature Error Indicates that the product has reached a too high temperature.

13. Accessories and Spare parts

is a very versatile fixture, optional accessories for its customization are available under request:

Accessory name	Code
Front barrel for lens tube with burnished blades	BC10011A200
Profile 5°, lens tube	BC10011A041
Profile 10°, lens tube	BC10011A042
Profile 14°, lens tube	BC10011A023
Profile 19°, lens tube	BC10011A012
Profile 26°, lens tube	BC10011A013
Profile 36°, lens tube	BC10011A015
Profile 50°, lens tube	BC10011A016
Profile 70°, lens tube	BC10011A024
Profile 90°, lens tube	BC10011A025
Profile Zoom 15°- 35°	BC10011A017
Profile Zoom 25°- 50°	BC10011A019
Profile Zoom 28°- 40°	BC10011A003
Soft Profile Fresnel Zoom 14°- 40°	BC10011A002
Soft Profile PC Zoom 11°- 38°	BC10011A001
4 leaf barndoor	ACO4202
Gobo frame holder	BC10011A006
Iris	BC10011A010
Donut (190.5 mm)	BC10011A028
Half Top Hat (190.5 mm)	BC10011A027
Top Hat (190.5 mm)	BC10011A029
Color Frame Holder (190 mm)	BC10011A040
Donut (185 mm)	BC10011A036
Half Top Hat (185 mm)	BC10011A035
Top Hat (185 mm)	BC10011A037
Color Frame Holder (185 mm)	ACO4204

Donut (159 mm)	BC10011A032
Half Top Hat (159 mm)	BC10011A031
Top Hat (159 mm)	BC10011A033
Colour Frame Holder (159 mm)	BC10011A021
(Gobo Slot) Glass template holder (93.6 mm)	BC10011A030
Hook clamp, 48-51 mm, max. load 20 Kg.	BC10011A047
Light clamp silver, 48-51 mm, max. load 75 Kg.	BC10011A045
Light clamp black, 48-51 mm, max. load 75 Kg.	BC10011A046
Clamp silver, flat 13-30 mm/ø 15-50 mm, max. load 20 Kg.	BC10011A043
Clamp black, flat 13-30 mm/ø 15-50 mm, max. load 20 Kg.	BC10011A044

All the components of **LEDko FullSpectrum 6 HD-R** are available as spare parts from your Coemar dealer or Service. Accurate description of the fixture, model number and type will assist us in providing for your requirements in an efficient and effective manner.

14. Maintenance

14.1 Firmware update

The firmware of **LEDko FullSpectrum 6 HD-R** can be updated through the RDM protocol (ANSI E1.20). Contact **Coemar** assistance to receive the software and the device updater.

14.2 Periodic cleaning

Lenses

Even a thin layer of dust can reduce the luminous output and alter the consistency of the beam. Regularly clean all filters and lenses using a soft cotton cloth, dampened with a special lens cleaning solution.

Cleaning of the unit

Use a soft brush or a common vacuum cleaner or a source of compressed air for removing dust. For the cleaning of the housing use a soft cloth and a non-aggressive cleaner. Check that the internal fans and heat exchanger must be perfectly clean.

14.3 Periodic controls

Mechanical components

Check the correct working of the mechanical parts and, if needed, replace them. Make sure the projector is not mechanically damaged. If necessary, replace the worn parts.

Electrical components

Check all electrical connections, in particular for correct grounding and correct attachment of all extractable connectors. Press the connectors if necessary and reposition as before.

14.4 Fuses

LEDko FullSpectrum 6 HD-R has an automatic fuse that in most cases does not need to be replaced.

15. F.A.Q. and answers

The following list shows common issues that may be simply solved. If issues persist, the unit must be repaired by a qualified personnel or just contact your **Coemar** service.

Question	Possible solution
LEDko FullSpectrum 6 HD-R does not emit light	Projector not powered on: <ul style="list-style-type: none">• Make sure the power cable is plugged in or test the input voltage; Wrong DMX address: <ul style="list-style-type: none">• Check the DMX Address setting and the output signal of the controller;
LEDko FullSpectrum 6 HD-R is not responding to DMX signal	DMX signal may not reach LEDko FullSpectrum 6 HD-R: <ul style="list-style-type: none">• Inspect the cable connection, correct poor connections or inefficient repair or replace damaged cables;• Check DMX address of the unit;

Help from Coemar Technical Services

If you are having difficulties and your problem is not addressed by this document, contact Coemar Technical Services directly at one of this email address:

info@coemar.com / service@coemar.com

Or call the number **+39 0376 1514412**

When calling for help, take these steps first:

- Prepare a detailed description of the problem
- Go near the equipment for troubleshooting

User notes

[illegible]



Information on disposal of the equipment

The equipment at the end of its useful life must be disposed of at an appropriate recycling center for waste electrical and electronic equipment. The treatment and disposal of environmentally friendly, helps prevent potential negative environmental and health and promote the reuse and / or recycling of materials making up the equipment. Illegal disposal by the user includes the application of administrative sanctions provided by law.



Coemar Lighting s.r.l.
Via Carpenedolo 90
46043 Castiglione delle Stiviere, Mantova, Italy
phone. +39 0376/1514412 - fax +39 0376/1514380
info@coemar.com

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