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Congratulations on having purchased a **Coemar** product. You have assured yourself of a fixture of the highest quality, both in componentry and in the technology used. We renew our invitation to you to complete the service information on the previous page, to expedite any request for service information or spares (in case of problems encountered either during, or subsequent to, installation). This information will assist in providing prompt and accurate advice from your **Coemar** service centre. Following the instructions and procedures outlined in this manual will ensure the maximum efficiency of this product for years to come.

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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 currier and your supplier immediately by telephone, fax or e-mail, and inform them you will formally notify them in writing through registered letter.

#### **Packing list**

Ensure the packaging contains: 1 LEDko TM Profile FullSpectrum 6 1 Instruction manual

#### **1.2** Transportation

The **LEDko TM Profile FullSpectrum 6** 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: 0,5 m.
- **3.** Minimum distance from the closet illuminable surface: 0,5 m.
- **4.** 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 LED replacement.
- **2.** For the connection to the mains, adhere strictly to the guidelines outlined in this manual.

- The level of technology of LEDko TM Profile FullSpectrum 6 requires the use of specialised personnel for all service applications; refer all work to your authorised Coemar service centre.
- **4.** A good earth connection is essential for the proper functioning of the projector. Never connect the fixture if there is no earth connection.
- **5.** Mains cables must not come into contact with other cables.
- 6. Do not operate the projector with wet hands or in an area where water is present.
- **7.** 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.
- 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 ambient 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

- The fixture satisfies the essential requirements of the directive 2004/108/EC, 2006/95/EC, 2011/65/EC, 2002/96/EC & 2003/108/EC.
- 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	90-230Vac, 50-60Hz
Maximum current	1.74 A @ 230 Vac, 4.44 A @ 90 VaC
Power factor	$\cos\phi = 0.9$
Power consumption	400 W
Color temperature	Red, Green, Blu, White, Lime, Amber color mixing
Weight (without optic)	36.0 Kg - 79.0 lbs
Minimum ambient temperature	-20 °C / -4 °F
Maximum ambient temperature	+35 °C / +95 °F
IP rating	IP20

### **3.2** Dimensions







## 3.3 Unit's main components



	Components description				
Α	Body case				
В	Front lens				
С	Locking handle				
D	Yoke				
Ε	Base handle				
F	Display panel				

**3.4** Display panel & Power panel description





\*Power panel

## 4. Installation

### 4.1 Mechanical installation

**LEDko TM Profile FullSpectrum 6** may be floor mounted or it can be hunged from an appropriate structure in any position. The unit is provided with four rubber feet mounted on its base, allowing it to be placed on a flat surface.

For installations on a reticular structure, we recommend to use specific "**A**" hooks, suitable for supporting the weight.



#### Warning!!

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

### 4.2 Safety chain

When hanging **LEDko TM Profile FullSpectrum 6** it is recommended to use a safety chain, as required by current legislation. The safety chain must pass through the hole "**B**" and then fixed to the structure itself. If using steel cables and chains not **Coemar**'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).



#### 4.3 Adjusting unit's tilt and pan

In order to adjust the tilt or the pan of the unit simply loose the locking handle "**C**" on the yoke, adjust the tilt or the pan and lock the yoke by tightening the locking handle again.



## 5. Powering up

#### 5.1 Operating voltage and frequency

The unit may operates at voltages ranges from 90 to 230VaC at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **LEDko TM Profile FullSpectrum 6** 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. **GKIT02**).

#### **Connection to mains power**

**LEDko TM Profile FullSpectrum 6** is equipped with two power connectors, one as input and one as output, which can be used to feed up to 6 (at 230 VAC) or 3 (90 VAC) fixtures.

The max absorption of LEDko TM Profile FullSpectrum 6 is reported in the following table:

- 230 VaC 1.74 A constant during normal exercise.

- 90 VaC 4.44 A constant during normal exercise.



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#### Warning!!

- The use of a thermal/magnetic circuit breaker is recommended. Strict adherence to regulatory norms is strongly recommended.
- **LEDko TM Profile FullSpectrum 6** 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 TM Profile FullSpectrum 6**.
- 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 TM Profile FullSpectrum 6**.



#### 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 32 address channels for its complete operation and is controlled by a DMX 512 signal.

#### DMX addressing

When powered up initially, each projctor will show "A001", which indicates that the fixture will start responding from the first DMX channel; **LEDko TM Profile FullSpectrum 6** uses 32 DMX channels, which means that it will respond to the commands from channel 1 to channel 32 of your DMX 512 controller. Accordingly a second unit should be addressed as A033, a third one as A065 and so on. The operation must be carried out on every **LEDko TM Profile FullSpectrum 6** which has an address different from A001.

#### Altering the DMX address:

- 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.

#### 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 ↓	32 channels					
1	X axis, base movement (pan) corse					
2	X axis, base movement (pan) fine					
3	Y axis, base movement (tilt) corse					
4	Y axes, base movement (tilt) fine					
5	Movement Speed					
6	Master Dimmer					
7	Dimmer Fine					
8	Red					
9	Green					
10	Blue					
11	White					
12	Lime					
13	Amber					
14	White Tone					
15	Green Saturation					
16	Spare Channel					

17	Iris Diaphragm
18	Focus
19	Zoom
20	Plus Zoom
21	Frost
22	Framing Shutter 1
23	Framing Shutter 1 angle
24	Framing Shutter 2
25	Framing Shutter 2 angle
26	Framing Shutter 3
27	Framing Shutter 3 angle
28	Framing Shutter 4
29	Framing Shutter 4 angle
30	Framing Rotation
31	Special Functions
32	Motors Reset

### 8.2 DMX Chart 32 channels

channel 32	function	type of control	effect	decimal		decimal pe		percentage		
1	X axis, base movement	proportional	proportional coarse control of the base motor movement	0	-	255	0%	-	100%	
2	X axis, base movement	proportional	proportional fine control of the base motor movement	0	-	255	0%	-	100%	
3	Y axis, yoke movement	proportional	proportional coarse control of the yoke motor movement	0	-	255	0%	-	100%	
4	Y axis, yoke movement	proportional	proportional fine control of the yoke motor movement	0	-	255	0%	-	100%	
		step	standard (fast)	0	-	10	0%	-	4%	
r.	movement	step	ultra fast movement (best for programming positions)	11	-	25	4%	-	10%	
5	speed	proportional	vector mode (from fast to slow)	26	-	127	10%	-	50%	
		proportional	tracking mode (from fast to slow)	128	-	247	50%	_	97%	
		step	smooth mode	248	-	255	97%	-	100%	
6	master dimmer	proportional	gradual adjustment of luminous intensity from 0 to 100%	0	-	255	0%	-	100%	
-7		step	no effect	0	-	9	0%	-	4%	
/	dimmer fine	proportional	fine dimmer control 16 bit	10	-	255	4%	-	100%	
8	red	proportional	proportional control of the RED percentage from 0 to 100%	0	-	255	0%	-	100%	
9	green	proportional	proportional control of the GREEN percentage from 0 to 100%	0	-	255	0%	-	100%	
10	blue	proportional	proportional control of the BLUE percentage from 0 to 100%	0	-	255	0%	-	100%	
11	cyan	proportional	proportional control of the CYAN percentage from 0 to 100%	0	-	255	0%	-	100%	
12	lime	proportional	proportional control of the LIME percentage from 0 to 100%	0	-	255	0%	-	100%	
13	amber	proportional	proportional control of the AMBER percentage from 0 to 100%	0	-	255	0%	-	100%	
			no effect	0	-	9	0%	-	4%	
			2.700 K	10	-	30	4%	-	12%	
			from 2.700 K to 3.200 K	31	-	52	12%	-	20%	
			3.200 K	53	-	74	21%	-	29%	
			from 3.200 K to 4.000 K	75	-	96	29%	-	38%	
14	white to a	oter	4.000 K	97	-	118	38%	-	46%	
14	while tone	siep	from 4.000 K to 5.000 K	119	-	140	47%	-	55%	
			5.000 K	141	-	162	55%	-	64%	
			from 5.000 K to 5.600 K	163	-	184	64%	-	72%	
			5.600 K	185	-	206	73%	-	81%	
			from 5.600 K to 6.500 K	207	-	228	81%	-	89%	
			6.500 K	229	-	255	90%	-	100%	

		step no effect			0			0%	/ 0
		proportional	exalts green color and diminishes magenta presence	0	-	126	0%	-	49%
15	green	step	no effect	1	2	7	5	50	%
		proportional	exalts magenta color and diminishes green presence	128	-	254	50%	-	100%
		step	no effect	2	25	5	1(	%	
16	spare channel	step	no effect	0	-	255	0%	-	100%
17	iris diaphragm	step	open	0	-	9	0%	-	4%
17	(LIN-Linear)	proportional	from maximum to minimum aperture	10	-	255	4%	-	100%
		step	open	0	-	9	0%	-	4%
		proportional	from maximum to minimum aperture	10	-	124	4%	-	49%
	iris diaphragm	step	minimum diameter	125	-	129	49%	-	51%
17	(with internal	proportional	pulsing with proportional increase in speed	130	-	189	51%	-	74%
	PULS effect)	step	open	190	-	192	75%	-	75%
		proportional	pulse and ash effect with proportional increase in speed	193	-	255	76%	-	100%
18	focus	proportional	proportional control of focus	0	-	255	0%	-	100%
19	zoom	proportional	proportional control of zoom effect wheel from narrow to wide beam	0	-	255	0%	-	100%
			no effect	0	-	127	0%	-	50%
20	plus zoom	step	additional beam widening	128	-	255	50%	-	100%
			no effect	0	-	127	0%	-	50%
21	frost	step	enable frost effect	128	-	255	50%	-	100%
22	framing shutter 1	proportional	proportional control over the insertion of the first framing shutter from outside the beam to fully inserted into the beam	0	-	255	0%	-	100%
	framing		positive angle	0	-	120	0%	-	47%
23	shutter 1	proportional	parallel movement	121	-	135	47%	-	53%
	angle		negative angle	136	-	255	53%	-	100%
24	framing shutter 2	proportional	proportional control over the insertion of the second framing shutter from outside the beam to fully inserted into the beam	0	-	255	0%	-	100%
	framing		positive angle	0	-	120	0%	-	47%
25	shutter 2	proportional	parallel movement	121	-	135	47%	-	53%
	angle		negative angle	136	-	255	53%	-	100%
26	framing shutter 3	proportional	proportional control over the insertion of the third framing shutter from outside the beam to fully inserted into the beam	0	-	255	0%	-	100%
	framing		positive angle	0	-	120	0%	-	47%
27	shutter 3	proportional	parallel movement	121	-	135	47%	-	53%
	angle		negative angle	136	-	255	53%	-	100%
28	framing shutter 4	proportional	proportional control over the insertion of the fourth framing shutter from outside the beam to fully inserted into the beam	0	-	255	0%	-	100%
	framing		positive angle	0	-	120	0%	-	47%
29	shutter 4	proportional	parallel movement	121	-	135	47%	-	53%
	angle		negative angle	136	-	255	53%	-	100%

30	framing rotation	proportional	complete control over the rotation of the framing shutters	0	-	255	0%	-	100%
			park	0	-	9	0%	-	4%
		atap	600 Hz	10	-	84	4%	-	33%
		step	LED fan at low speed	85	-	96	33%	-	38%
			LED fan self regulated speed	97	-	108	38%	-	42%
		proportional	LED fan speed control from minimum to maximum	109	-	120	43%	-	47%
			LED fan at maximum speed	121	-	133	47%	-	52%
			no effect	134	-	199	53%	-	78%
31 <sup>1</sup>	special		LED control frequency tuning 1000 Hz	200	-	205	78%	-	80%
	runction	LED control frequency tuning 2000 Hz	206	-	211	81%	-	83%	
	step	LED control frequency tuning 3000 Hz	212	-	217	83%	-	85%	
		LED control frequency tuning 4000 Hz	218	-	223	85%	-	87%	
		LED control frequency tuning 5000 Hz	224	-	229	88%	-	90%	
			LED control frequency tuning 6000 Hz	230	-	235	90%	-	92%
			LED control frequency tuning 7000 Hz	236	-	241	93%	-	95%
			LED control frequency tuning 8000 Hz	242	-	247	95%	-	97%
			LED control frequency tuning 9000 Hz	248	-	255	97%	-	100%
			park	0	-	29	0%	-	11%
			pan and tilt reset (once only)	30	-	76	12%	-	30%
32	motors reset	motors reset step	all motor reset except pan and tilt (once only)	77	-	123	30%	-	48%
			reset of all the motors (once only)	124	-	170	49%	-	67%
			no effect	171	-	255	67%	-	100%

Note 1: when returning to the park function (0-9 decimal points), the frequency returns to the value set previously

## 9. Display panel functions

#### 9.1 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 TM Profile FullSpectrum 6**, 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.

#### 9.2 Rapid count

Through the display panel of **LEDko TM Profile FullSpectrum 6** 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.

DISPLAY	MAIN
SETUP	FUNCTION
MEASURES	DEMO

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. Press the menu button to choose between the submenus (**DISPLAY SETUP**, **MAIN FUNCTION, MEASURE or DEMO**) by pressing the "+" or "-" buttons.

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

#### 9.3 Display Setup Menu

DISPLAY	MAIN
SETUP	FUNCTIONS
MEASURES	DEMO

## DISPLAY SETUP

- DISPLAY REVERSE
- BACKGROUND COLOR
- DISPLAY TIME OUT
- CONTRAST

## DISPLAY SETUP

- DISPLAY REVERSE
- BACKGROUND COLOR
- DISPLAY TIME OUT
- CONTRAST

### DISPLAY SETUP

- DISPLAY REVERSE
- BACKGROUND COLOR
- DISPLAY TIME OUT
- CONTRAST

#### **DISPLAY REVERSE:**

Set the verse of the display by choosing between STANDARD or REVERSE.

#### **BACKGROUND COLOR:**

Set the background color of the display by choosing between STANDARD (blue background and white writing) or REVERSE (white background and blue writing).

#### DISPLAY TIME OUT:

Set the time out of the display, choose between ON or OFF.

## DISPLAY SETUP

- DISPLAY REVERSE BACKGROUND COLOR
- DISPLAY TIME OUT

#### - CONTRAST

#### **CONTRAST:**

Set the percentage of the contrast of the display.

### 9.4 Main Function Menu

DISPLAY	MAIN
SETUP	FUNCTIONS
MEASURES	

## MAIN FUNCTIONS

- PAN/TILT
- DIMMER FADING SPEED
- GAMMA CORRECTION
- IRIS
- FAN SETTING
- BASE FAN VOLTS

## MAIN FUNCTIONS

- PAM/TILT
- DIMMER FADING SPEED
- GAMMA CORRECTION
- IRIS
- FAN SETTING
- BASE FAN VOLTS

## MAIN FUNCTIONS

- PAM/TILT
- DIMMER FADING SPEED

#### - GAMMA CORRECTION

- IRIS
- FAN SETTING
- BASE FAN VOLTS

#### PAN/TILT:

Choose the PAN or TILT settings between **PAN DIRECTION, PAN SPEED, TILT DIRECTIO, TILT SPEED or PAN/TILT LOCK DETECTION (ON or OFF)**.

#### DIMMER FADING SPEED:

Set the dimmer's IN or OUT fading speed from 0 to 255.

#### GAMMA CORRECTION: Choose between EXPONENTIAL, LOGARITHMIC or LINEAR.

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## MAIN FUNCTIONS

#### - PAM/TILT

- DIMMER FADING SPEED
- GAMMA CORRECTION

#### - IRIS

- FAN SETTING
- BASE FAN VOLTS

### MAIN FUNCTIONS

- PAN/TILT
- DIMMER FADING SPEED
- GAMMA CORRECTION
- IRIS
- FAN SETTING
- BASE FAN VOLTS

## MAIN FUNCTIONS

- PAM/TILT
- DIMMER FADING SPEED
- GAMMA CORRECTION
- IRIS
- FAN SETTING
- BASE FAN VOLTS

## MAIN FUNCTIONS

- LED FREQUENCY
- FOCUS
- RESET
- RECALL DEFAULT SETTING

#### IRIS:

Set the IRIS and choose between **LINEAR or PULSE**.

#### FANS SETTINGS:

Choose the fan settings between **MAXIMUM, SILENT** or LOWER.

#### **BASE FAN VOLTS:**

Choose the fan volts of the base.

#### LED FREQUENCY:

Choose the **Hz** frequency: 611, 1.000, 2.000, 3.000, 4.000, 5.000, 6.000, 7.000, 8.000, 9.000.

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## MAIN FUNCTIONS

#### - LED FREQUENCY

- FOCUS
- RESET
- RECALL DEFAULT SETTING

## MAIN FUNCTIONS

- LED FREQUENCY
- FOCUS
- RESET
- RECALL DEFAULT SETTING

## MAIN FUNCTIONS

- LED FREQUENCY
- FOCUS
- RESET
- RECALL DEFAULT SETTING

#### FOCUS:

Choose **MANUAL or AUTO** focus.

#### **RESET:**

 $\hat{\mathbf{x}}$ 

Choose what type of reset you want to implement **ALL**, **PAN/TILT ONLY or EFFECT ONLY**.

#### **RECALL DEFAULT SETTINGS:**

Allows to return to the factory settings

#### 9.5 Measures Menu

DISPLAY	MAIN
SETUP	FUNCTIONS
MEASURES	DEMO

## MEASURES

- TEMPERATURE
- VOLTAGE
- ALARM STATUS
- USAGE HOURS
- SOFTWARE VERSION

### MERSURES

- TEMPERATURE
- VOLTAGE
- ALARM STATUS
- USAGE HOURS
- SOFTWARE VERSION

### MERSURES

- TEMPERATURE
- VOLTAGE
- ALARM STATUS
- USAGE HOURS
- SOFTWARE VERSION

#### **TEMPERATURE:**

Shows the current temperature values of the fixture.

**LED plate**: shows the LED module temperature.

LED driver: shows

the electronic board temperature.

#### VOLTAGE:

Shows the power supply voltage **(V MOTOR o V LED)**.

#### VOLTAGE:

Shows the alarm status: **PAN LOCKED, NO DMX SIGNAL, ZOOM.** 

### MEASURES

- TEMPERATURE
- VOLTAGE
- ALARM STATUS
- USAGE HOURS
- SOFTWARE VERSION

## MERSURES

- TEMPERATURE
- VOLTAGE
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#### **TEMPERATURE:**

Shows the hour counter of the fixture. LED module life. LED driver life: 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.

#### **TEMPERATURE:**

Shows the firmware version currently installed in the fixture.

## **10**. Special Function and Error Messages

#### **10.1** 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.

#### **10.2 Error messages**

If a malfunction occurs, **LEDko TM** has a self-diagnostic system that will show the error message on the display. Call the **Coemar** Service Center.

## **11. Accessories and spare parts**

**LEDko TM** is a very versatile fixture, optional accessories for its customization are available under request, All the components of **LEDko TM** 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.

## **12**. Maintenance

#### 12.1 Firmware update

The firmware of **LEDko TM** can be updates through the RDM protocol (ANSI E1.20). Contact Coemar assistance to receive the software and the device updater (AC10011A000).

#### 12.2 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.

#### **12.3** 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.

## 13. 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 near you.

Question	Possible solution
<b>LEDko TM</b> does not emit light	<ul> <li>Projector not powered on:</li> <li>Make sure the power cord is plugged in or test the input voltage.</li> <li>Wrong DMX address:</li> <li>Check the DMX Address setting and the output signal of the controller.</li> </ul>
<b>LEDko TM</b> is not responding to DMX signal	<ul> <li>DMX signal may not reach FX PROJECTOR:</li> <li>Inspect the cable connection, correct poor connections or inefficient repair or replace damaged cables.</li> <li>Check DMX address of the unit.</li> </ul>

#### **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**

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#### 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.

# CE

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Coemar reserves the right to change specifications without prior notice