

USER MANUAL

vrs. 1.1 - 04.04.2023

Compatible up to software version 0.74



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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.

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 VariWhite HD +

1 Instruction manual

1 Gobo holder

1 Main power plugs

1.2 Transportation

The **LEDko VariWhite HD** + 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.

- 3. The level of technology of LEDko VariWhite HD + 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.
- 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 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 36 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

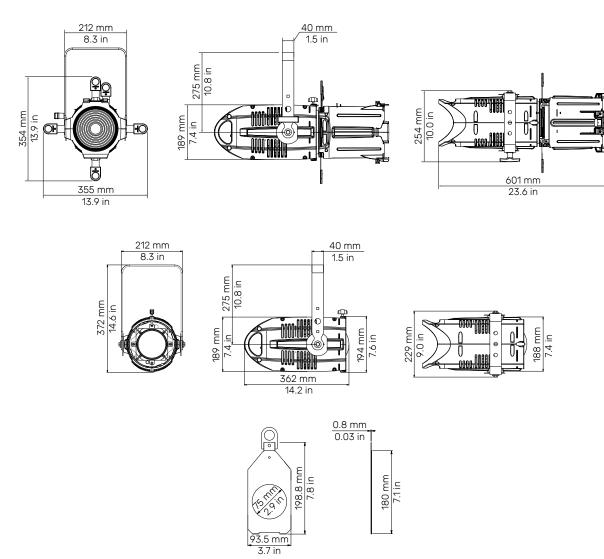
- 1. The fixture satisfies the essential requirements of the directive 2004/108/EC, 2006/95/EC, 2011/65/EC, 2002/96/EC & 2003/108/EC.
- 2. The fixture is in accordance with the standard EN 50419 (RoHS) and satisfies the requirements of the directive 2002/96/EC (WEEE).

3. Product specifications

3.1 Technical characteristics

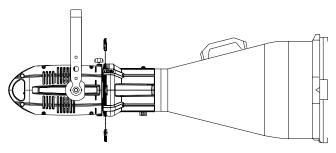
Power supply	80-264 V, auto-sensing, 50/60 Hz
Maximum current	0.97 A at 230 V - 1.95 A at 115 V
Power factor	$Cos\phi = 0.98$
Max power consumption	220 W
Color temperature	All whites from 2.700 to 6.000 K
Color Rendering Index (CRI)	CRI ≥ 95 up to 97
Weight (without optic)	6 Kg - 13.2 lbs
Ambient Operating Temperature	0°C - +40°C (32°F - 104°F)
IP rating	20

3.2 Dimensions

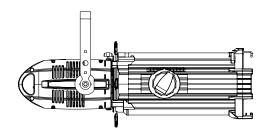


^{*} with Soft Profile Fresnel optic

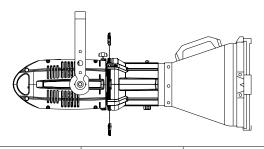
3.3 Weights and dimensions of the projector with various optics



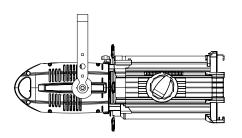
Optic	Length	Projector's weight
Profile 5°, Lens Tube	1201 mm (47.2 in)	11.15 Kg (24.58 lbs)



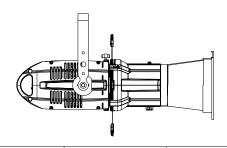
Optic	Length	Projector's weight
Profile Zoom 15°-35°	886 mm (34.9 in)	13.05 Kg (28.77 lbs)



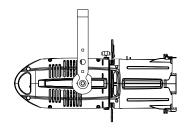
Optic	Length	Projector's weight
Profile 10°, Lens Tube	900 mm (35.4 in)	9 Kg (19.8 lbs)



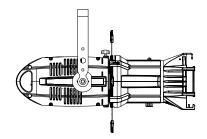
Optic	Length	Projector's weight
ofile Zoom 25°-50°	783 mm (30.8 in)	11.2 Kg (24.69 lbs)



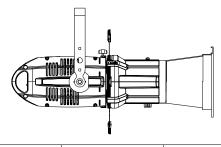
Optic	Length	Projector's weight
Profile 14°, Lens Tube	750 mm (29.5 in)	8.97 Kg (19.78 lbs)



Optic	Length	Projector's weight
Profile Zoom 28°-40°		8.3 Kg (18.3 lbs)
Soft Profile Fresnel	601 mm (23.7 in)	7.75 Kg (17.09 lbs)
Soft Profile PC		8.25 (18.19 lbs)

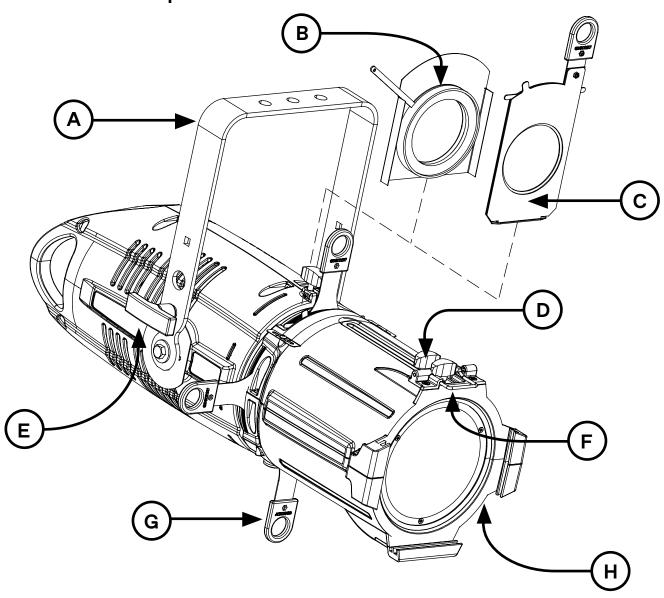


Optic	Length	Projector's weight
Profile 19°, Lens Tube		9.15 Kg (20.17 lbs)
Profile 26°, Lens Tube	670 (26.2 in)	9.05 Kg (19.95 lbs)
Profile 36°, Lens Tube	670 mm (26.3 in)	9.35 Kg (20.61 lbs)
Profile 50°, Lens Tube		9.05 Kg (19.95 lbs)



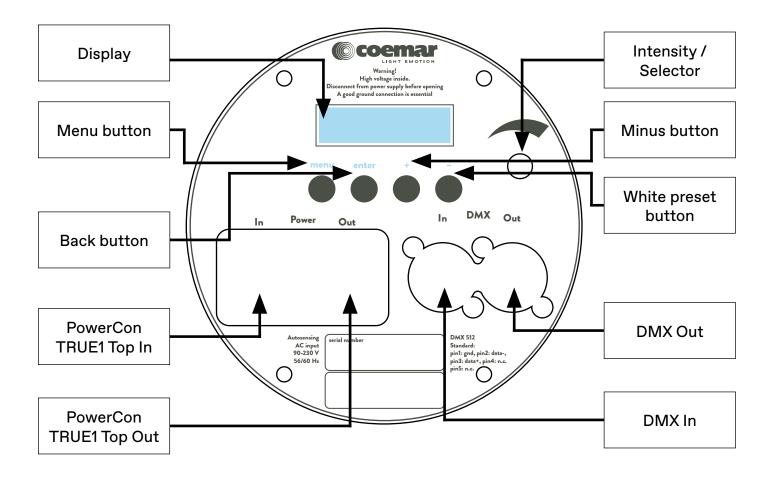
Optic	Length	Projector's weight
Profile 70°, Lens Tube	750 (20 5 :-)	8.68 Kg (19.14 lbs)
Profile 90°, Lens Tube	750 mm (29.5 in)	8.95 Kg (19.73 lbs)

3.4 Unit's main components



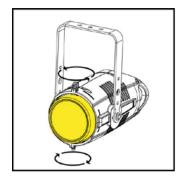
	Components description
Α	Adjustable yoke
В	Iris (optional)
С	Gobo holder
D	Lens adjusting handles
E	Yoke locking handle
F	Gel frame locking spring
G	Profile blade
Н	Interchangeable optic

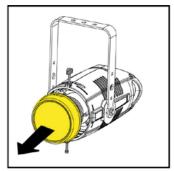
3.5 Back panel description

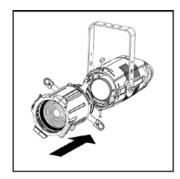


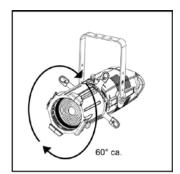
4. Installation

4.1 Optical installation

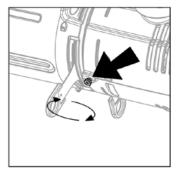


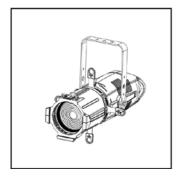












Remove the frontal cap by loosening the upper and lower screws enough to free the cap itself, set the optic's flange tilted about 60°. Insert the optic's flange into the body's receptacle and turn the optic 60° until it is firmly assembled to the projector body, free to rotate but not free to detach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

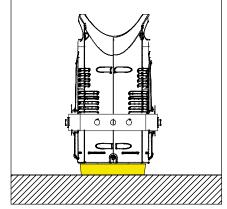
Warning!!

When the protective cap is removed, never lean the fixture facing down.

The front lens can be seriously damaged.

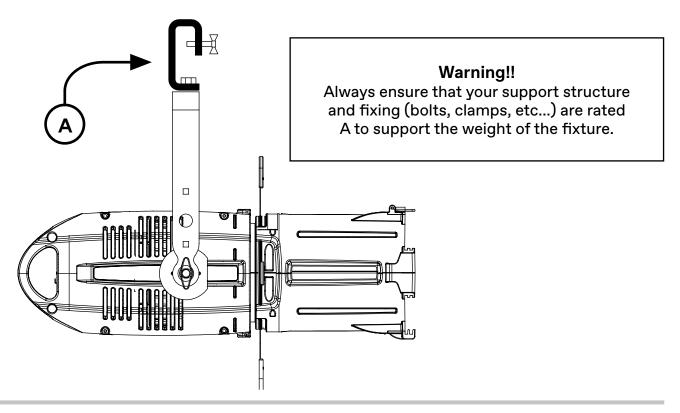






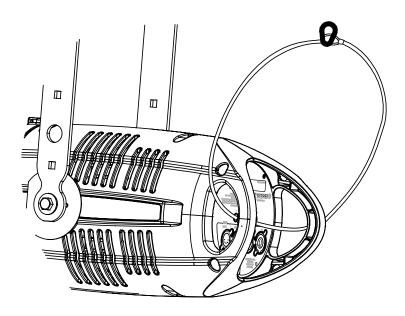
4.2 Mechanical installation

LEDko VariWhite HD + 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.



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 operates at voltages ranges from 80 to 264 V at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **LEDko VariWhite HD +** 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.

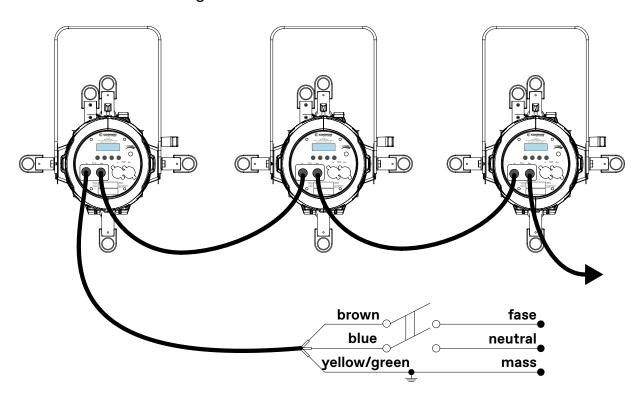
Note: in case of cable replacement, similar cable with comparable thermal resistant qualities must be used exclusively (cable 3 X 1,5 ø external 10 mm, rated 300/500V, tested to 2 KV, operating temperature -40°C + 180°C, Coemar cod. CV5311).

Connection to mains power

LEDko VariWhite HD + 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 VariWhite HD** + is reported in the following table:

- 230 V 0.97 A constant during normal exercise.
- 115 V 1.95 A constant during normal exercise.



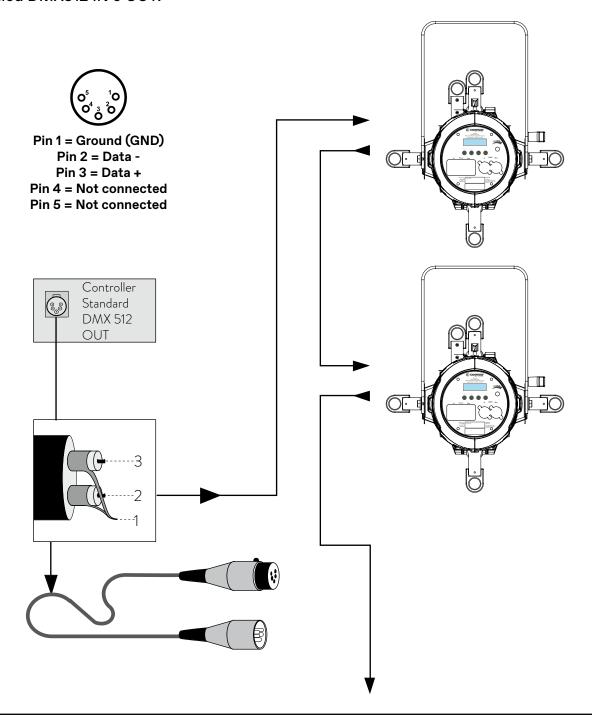
Warning!!

- The use of a thermal/magnetic circuit breaker is recommended. Strict adherence to regulatory norms is strongly recommended.
- **LEDko VariWhite HD** + 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 VariWhite HD +.
 - 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 VariWhite HD** + 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 the projector on

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 **5**, **SUNRISE**, **RAW**, **2** or **1** address channels for its complete operation and is controlled by a DMX 512 signal.

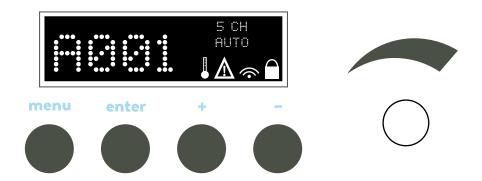
DMX addressing

When powered up initially, each projector will show "A001", which indicates that the fixture will start responding from the first DMX channel; **LEDko VariWhite HD** + also uses 5 DMX channels, which means that it will respond to the commands from channel 1 to channel 5 of your DMX 512 controller. Accordingly a second unit should be addressed as A006, a third one as A011 and so on. The operation must be carried out on every **LEDko VariWhite 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





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

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 Chart 5 channels

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%		
		step	2.700 K	0	-	6	0%	-	2%		
		proportional	proportional value from 2.700 K to 3.200 K	7	-	33	3%	-	13%		
		step	3.200 K	34	-	60	13%	-	24%		
		proportional	proportional value from 3.200 K to 4.000 K	61	-	87	24%	4% - 34%			
		step	4.000 K	88	-	114	35%	-	45%		
3	white tone	proportional	proportional value from 4.000 K to 5.000 K	115	-	141	45%	-	55%		
		step	5.000 K	142	-	168	56%	-	66%		
		proportional	proportional value from 5.000 K to 5.600 K	169	-	195	66%	-	76%		
		step	5.600 K	196	-	222	77%	-	87%		
		proportional	proportional value from 5.600 K to 6.500 K	223	-	249	87%	-	98%		
		step	6.500 K	250	-	255	98%	-	100%		
	sto	step	no effect	0	-	9	0%	ŀ	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%	-	42% 43% 62%		
4	strobe effect	proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	-	159	44%	-			
		step	stop strobe	160	-	161	63%	-	63%		
		proportional	random strobe effect with variable speed from slow to fast	162	-	207	64%	-	63%		
		step	stop strobe	208	-	209	82%	-	82%		
		proportional	random strobe effect with variable speed from slow to fast	210	-	255	82%	-	100%		
			park	0	-	9	0%	ŀ	62% 63% 81% 82% 100%		
			no effect	10	-	84	4%	-	33%		
		step	fan at LOW mode	85	-	96	33%	-	38%		
			fan at STUDIO mode	97	-	108	38%	-	42%		
5	special functions		fan at AUTO mode	109	-	120	43%	-	47%		
		proportional	fan speed control mode	121	-	133	47%	-	52%		
			enables the automatic display blackout	134	-	185	53%	-	73%		
		step disables the automatic display blac	disables the automatic display blackout	186	-	199	73%	-	78%		
			no effect	200	-	255	78%	-	100%		
Projector	: LEDko VariWhite	HD +	Chart name: DMX512 function	o				7.			
Edition: 1			Date: 04.04.2023	Soft	wa	ire ver	sion: 0	.14			

8.2 DMX Chart 2, 1 channels

channel		fation	turns of santual	affa at	decimal			norcontago			
2	1	function type of control		effect		CIN	naı	percentage			
1	1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%		-	255	0%	- 100%		
2	-	white tone	proportional	proportional value from 2.700 K to 6.500 K		-	255	0%	- 100%		
Projector: LEDko VariWhite HD +			HD+	Chart name: DMX512 function			Coffware versions 0.74				
Edition: 1				Date: 04.04.2023	Software version: 0.7			.74			

8.3 DMX Chart Sunrise mode

channel	function	type of control	effect	de	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%	
			2.700 K	0			0%			
			proportional value from 2.700 K to 4.000 K	1	-	86	0%	T	34%	
			4.000 K		87	,	3	349	%	
			proportional value from 4.000 K to 5.000 K	88	-	152	35%	-	60%	
3	proportional white tone	proportional	5.000 K	1	153	3	6	50°	%	
	writte torie		proportional value from 5.000 K to 5.600 K	154	-	192	60%	-	75%	
			5.600 K	1	19:	3	76%			
			proportional value from 5.600 K to 6.500 K	194 -		254	76%	-	100%	
	6.500 K	255			100%					
			no effect	0	-	9	0%	-	4%	
			2.700 K	10	-	50	4%	-	- 20% - 36%	
			3.200K	51	-	91	20%	-		
4	step white tone	step	4.000K	92	-	132	36%	-	52%	
			5.000K	133	-	173	52%	-	68%	
			5.600K	174	-	213	68%	-	84%	
			6.500K	214	-	255	84%	-	100%	
			park	0	-	9	0%	-	4%	
			no effect		-	84	4%	-	33%	
		step	fan at LOW mode	85	-	96	33%	-	38%	
			fan at STUDIO mode	97	-	108	38%	-	42%	
5	special functions		fan at AUTO mode	109	-	120	43%	-	47%	
		proportional	fan speed control mode		-	133	47%	-	52%	
			enables the automatic display blackout		-	185	53%	-	73%	
	step	disables the automatic display blackout	186	-	199	73%	-	78%		
			no effect 200 - 255		255	78%	_	100%		
Note 1: If	channels 3 and 4 a	re used simultan	eously, channel 4 prevails.							
Projector	: LEDko VariWhite	HD +	Chart name: DMX512 function	Sof+	۸,,	re ve	sion: 0	7/		
Edition: 1			Date: 04.04.2023	3011	vv c	are ver	31011. U	.14		

8.4 DMX Chart Raw mode

channel	function	type of control	effect		decimal		percentage		
1	warm white led	proportional	adjust luminous output intensity of warm white led from 0 to 100%		-	255	0%	-	100%
2	warm white led fine	proportional	warm white led fine control 16 bit		-	255	0%	-	100%
3	cold white led	proportional	adjust luminous output intensity of cold white led from 0 to 100%		-	255	0%	-	100%
4	cold white led fine	proportional	cold white led fine control 16 bit		-	255	0%	-	100%
Projector: LEDko VariWhite HD +		HD +	Chart name: DMX512 function		Coff				
Edition: 1			Date: 04.04.2023	Software version			SIOH: U	.14	

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 VariWhite HD** +, 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 VariWhite HD +** 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.

9.3 Intensity / Selector Knob

In order to change quickly the **CCT**, push the **Intensity / Selector**; a new screen will appear on the display where you can chose the CCT (from 2.700 K to 6.500 K), once decided push again the Intensity / Selector, now you can chose the light intensity from 255 to 0, by pushing another time the Intensity / Selector.

9.4 Main functions menu

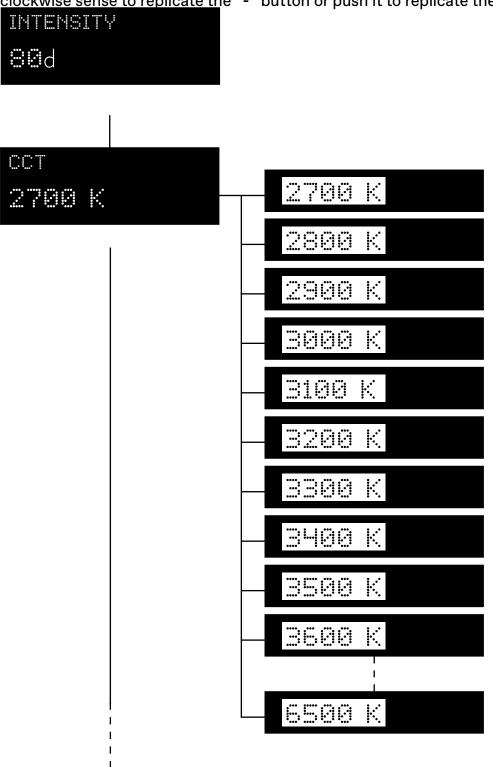


This will be the first screen that will appear on the display once the projector is turned on. To change the DMX address press the "+" button and chose the DMX address desired.

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

By pressing the "MENU" button you can enter the LEDko VariWhite HD +'s main menu. N.B. Instead of use the "+", "-" or "ENTER" buttons it is possible to use the Intensity / Selector Knob by rotating it.

Rotate the Intensity / Selector Knob in clockwise sense to replicate the "+" button, in counterclockwise sense to replicate the "-" button or push it to replicate the "ENTER" button.

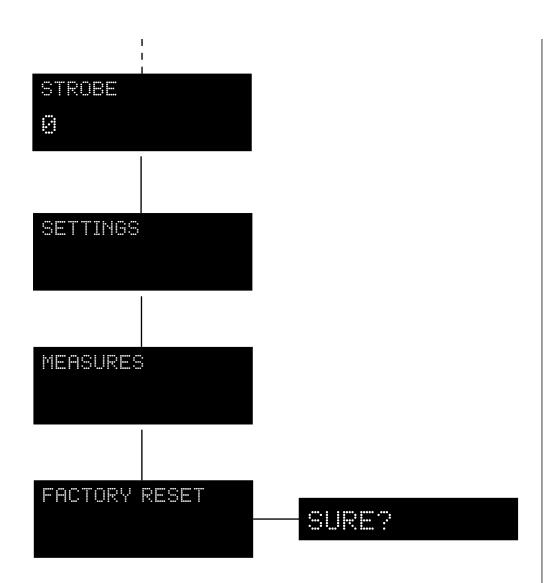


INTENSITY:

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 6.500 K, manually selectable without the need of a DMX console.



STROBE:

Manually sets the strobe DMX channel.

SETTINGS:

Manually sets various settings of the projector (section 9.5 Settings).

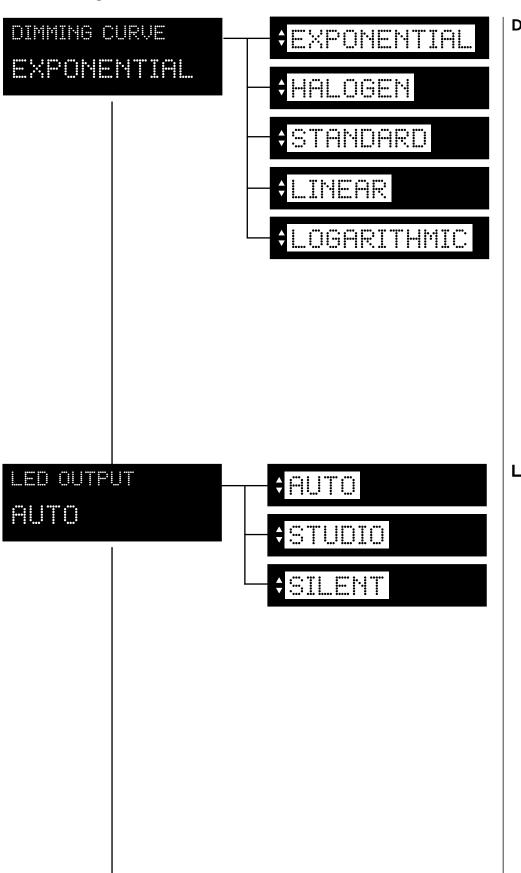
MEASURES:

Check all the measures and product status (section 9.7 Measures).

FACTORY RESET:

Allows to return to the factory settings: Light Intensity: 80 CCT: 4.400 K DMX Channels: 5 Fan: Auto mode Strobe: 0

9.5 Settings



DIMMING CURVE:

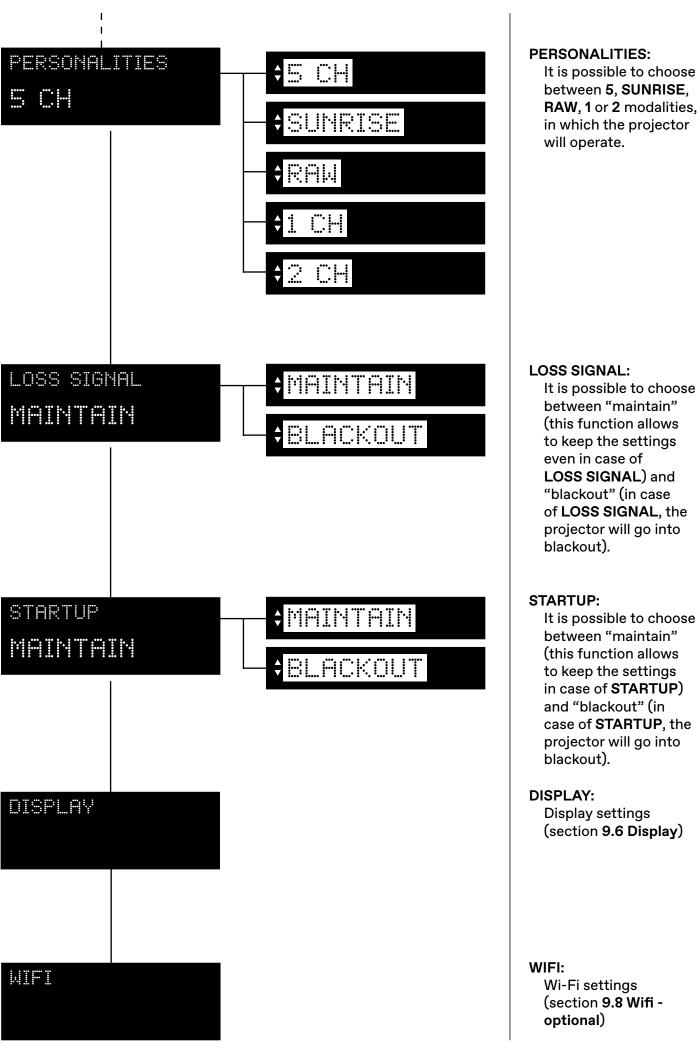
It allows the selection of different dimmer curves: exponential (default), halogen, standard, linear and logarithmic.

LED OUTPUT:

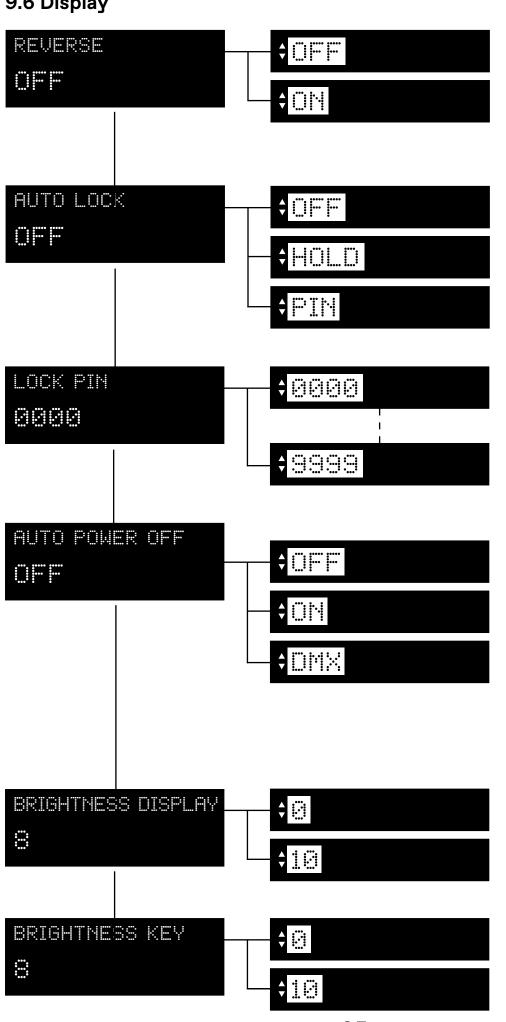
Manually sets the fan mode.

AUTO: 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 overheat) ideal for broadcast or theatre applications. SILENT: This setting will

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







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

BRIGHTNESS DISPLAY:

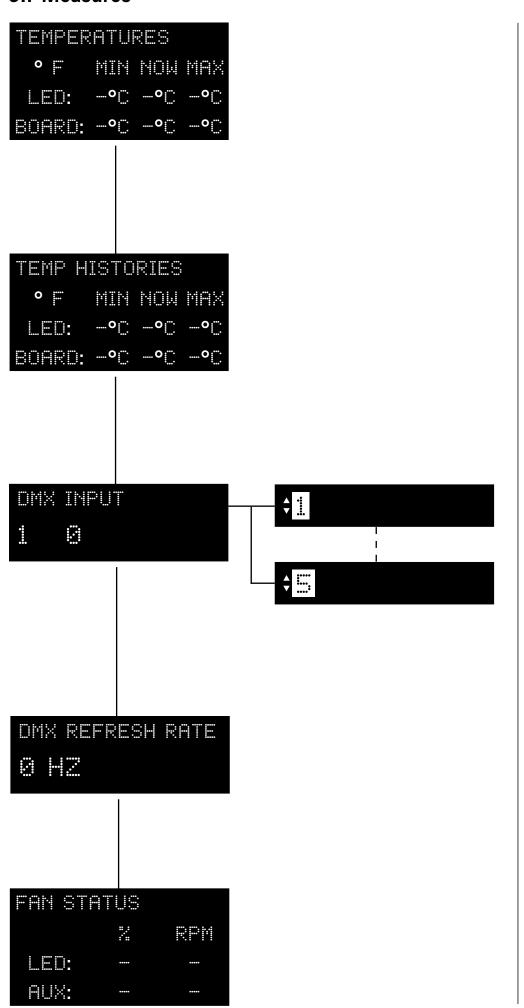
in case of signal loss

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).

9.7 Measures



TEMPERATURES:

Shows the current temperature values of the fixture.

LED: shows the LED module temperature. BOARD: shows the electronic board temperature.

TEMPERATURES HISTORIES:

temperature.

Shows the history temperature of the fixture.

LED: shows the LED module temperature. BOARD: shows the electronic board

DMX INPUT:

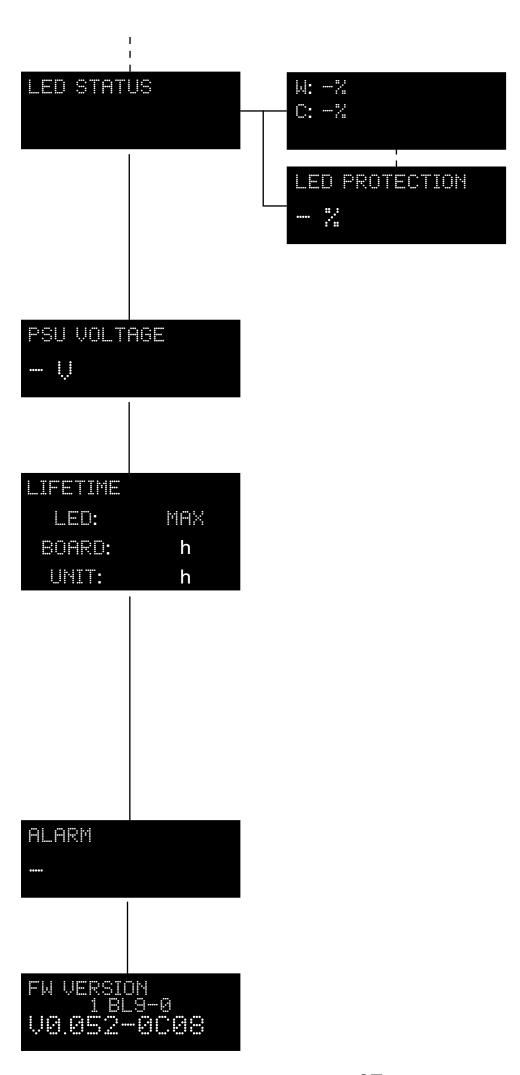
Shows the value of the DMX channels received by the fixture on every channel (from 1 to 5) that the fixture occupies on the line.

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

Note: this items can be reset in case of LED module replacement.

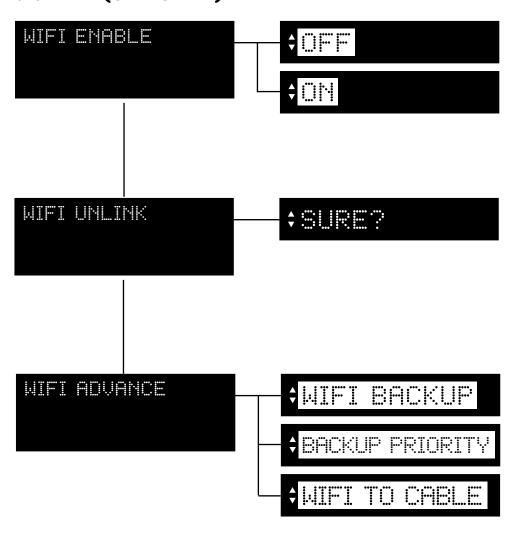
ALARM:

This menu eventually shows the alarm statuses if there is any(section 9.9 Error messages).

FIRMWARE VERSION:

Shows the firmware version currently installed in the fixture.

9.8 Wi-Fi (OPTIONAL)



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.

9.9 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 WHITE 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.

9.10 Error messages

If a malfunction occurs, **LEDko VariWhite HD +** 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.

10. Accessories and spare parts

LEDko VariWhite HD + 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 VariWhite HD + 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.

11. Maintenance

11.1 Firmware update

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

11.2 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.

11.3 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.

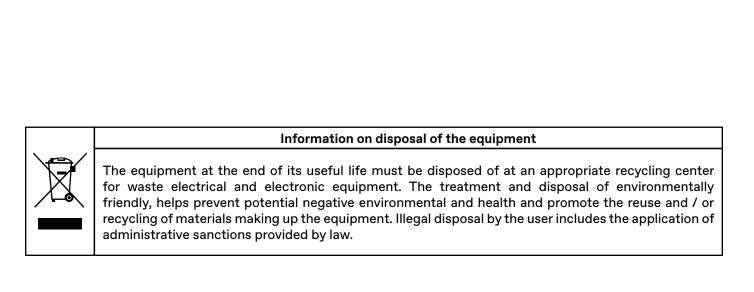
12. F.A.Q. and answers

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					
LEDko VariWhite HD + does not emit light	Projector not powered on: Make sure the power cord is plugged in or test the input voltage. Wrong DMX address: Check the DMX Address setting and the output signal of the controller.					
LEDko VariWhite HD + is not responding to DMX signal	 DMX signal may not reach LEDko VariWhite HD +: Inspect the cable connection, correct poor connections or inefficient repair or replace damaged cables. Check DMX address of the unit. 					

User notes

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