# Romeo


## USER MANUAL

vrs. 1.2 - 20.06.2024

coemar

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.

# Index

# 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 email, and inform them you will formally notify them in writing through registered letter.

**Packing list**

Make sure the packaging contains:

**1 Romeo**

**1 Power cable**

**1 Instruction manual**

## 1.2 Transportation

The **Romeo** must be transported exclusively in its original packaging.

# 2. General information

## 2.1 Important Safety information

**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. 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, where the **Romeo** is installed, 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 fixture 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 **Romeo** 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 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.
2. Never install the fixture in an enclosed area lacking sufficient air flow; the room temperature must not exceed 40°C.
3. 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.

## 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

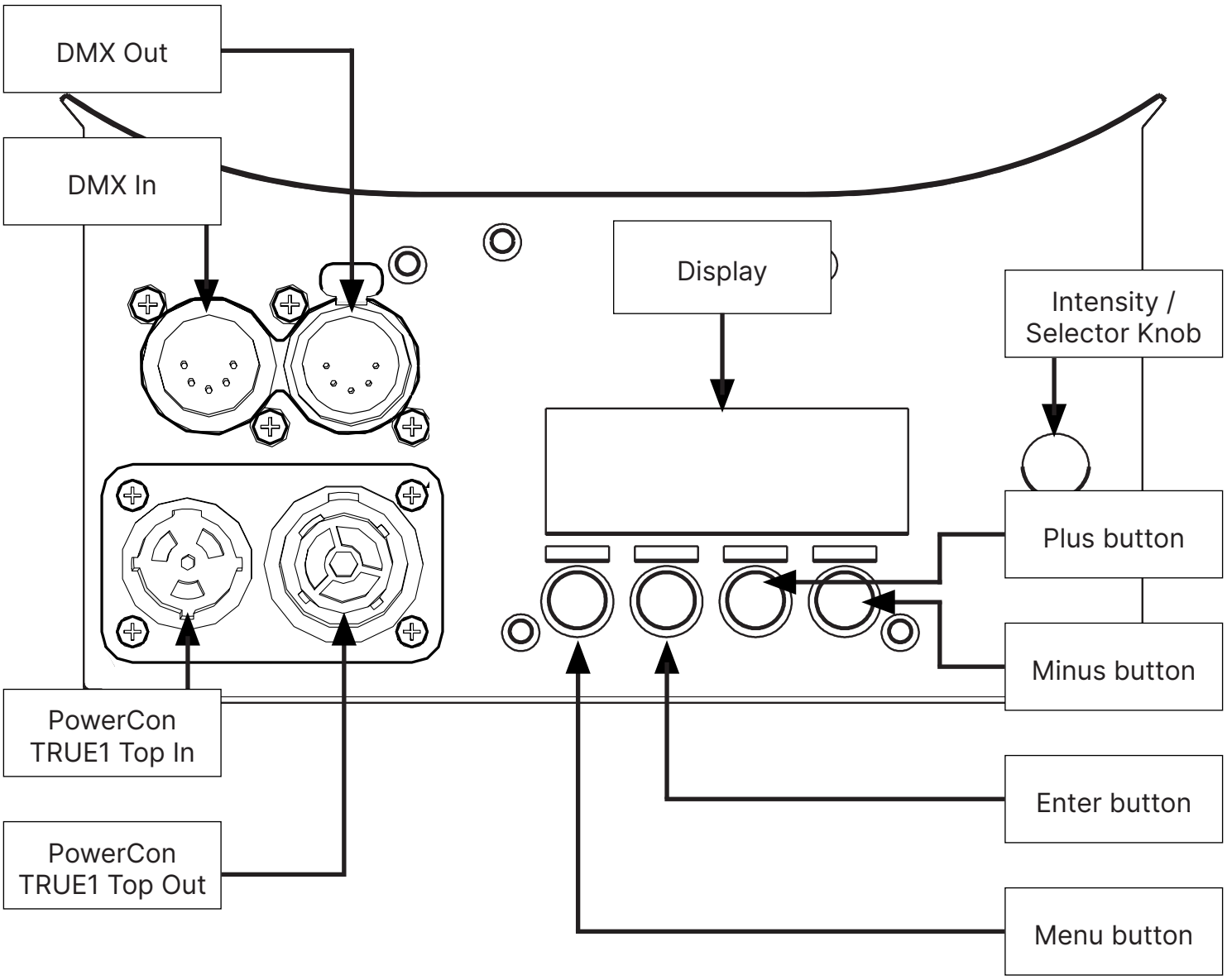
1. The fixture satisfies the essential requirements of the directive 2004/108/EC, 2006/95/EC, 2011/65/EC, 2002/96/EC & 2003/108/EC.
2. The fixture is in accordance with the standard EN 50419 (RoHS) and satisfies the requirements of the directive 2002/96/EC (WEEE).

# 3. Product specifications

## 3.1 Technical characteristics

| | |
|---|---|
| **Power supply** | 90-240 V, auto-sensing, 50-60 Hz |
| **Romeo 600 maximum power consumption** | 170 W |
| **Romeo 700 maximum power consumption** | 200 W (T/D versions)<br>230 W (VariWhite)<br>350 W (FullSpectrum version) |
| **Power factor** | Cosϕ > 0.95 |
| **Color temperature** | 3.200 K (Tungsten) or 5.600 K (Daylight)<br><br>Proportional control 2.700 → 6.000 K (VariWhite version)<br><br>RGBCLA COB LED (Red, Green, Blue, Cyan, Lime, Amber)<br>Color mixing with hue and saturation control |
| **Operating Ta (°C/F) range** | -0 to 40°C (32 to 104° F), two thermal protection at 95°C/203°F (LED) and 85°/185°F (Board) |
| **IP rating** | 20 |

## 3.2 Back panel description



# 4. Installation

## 4.1 Mechanical installation

With **Romeo** will be possible to give new life to your projector.

**N.B. to know how to mount the Kit on the Robert Juliat please follow the instructions that you can see in the VIDEO received by us.**

**Warning!!**

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

# 5. Powering up

## 5.1 Operating voltage and frequency

The unit may operates at voltages ranges from 90 to 240 V at a frequency of 50 or 60 Hz. It is not needed to effect any setup procedures: **Romeo** will automatically adjust its operation to suit any frequency or voltage within this range.

## 5.2 Connection to mains power

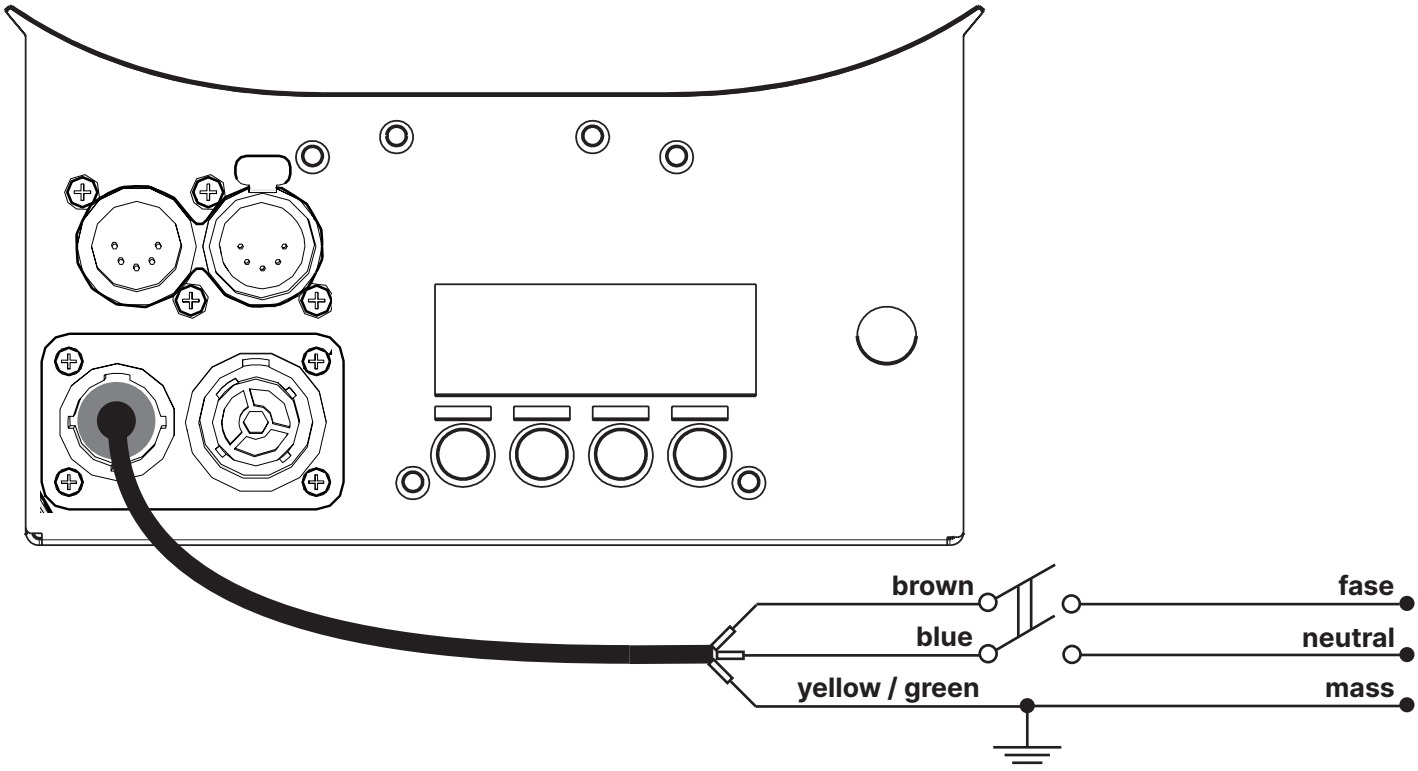
**Mains cable characteristics**

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**

**Romeo** 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 (115 V) fixtures.



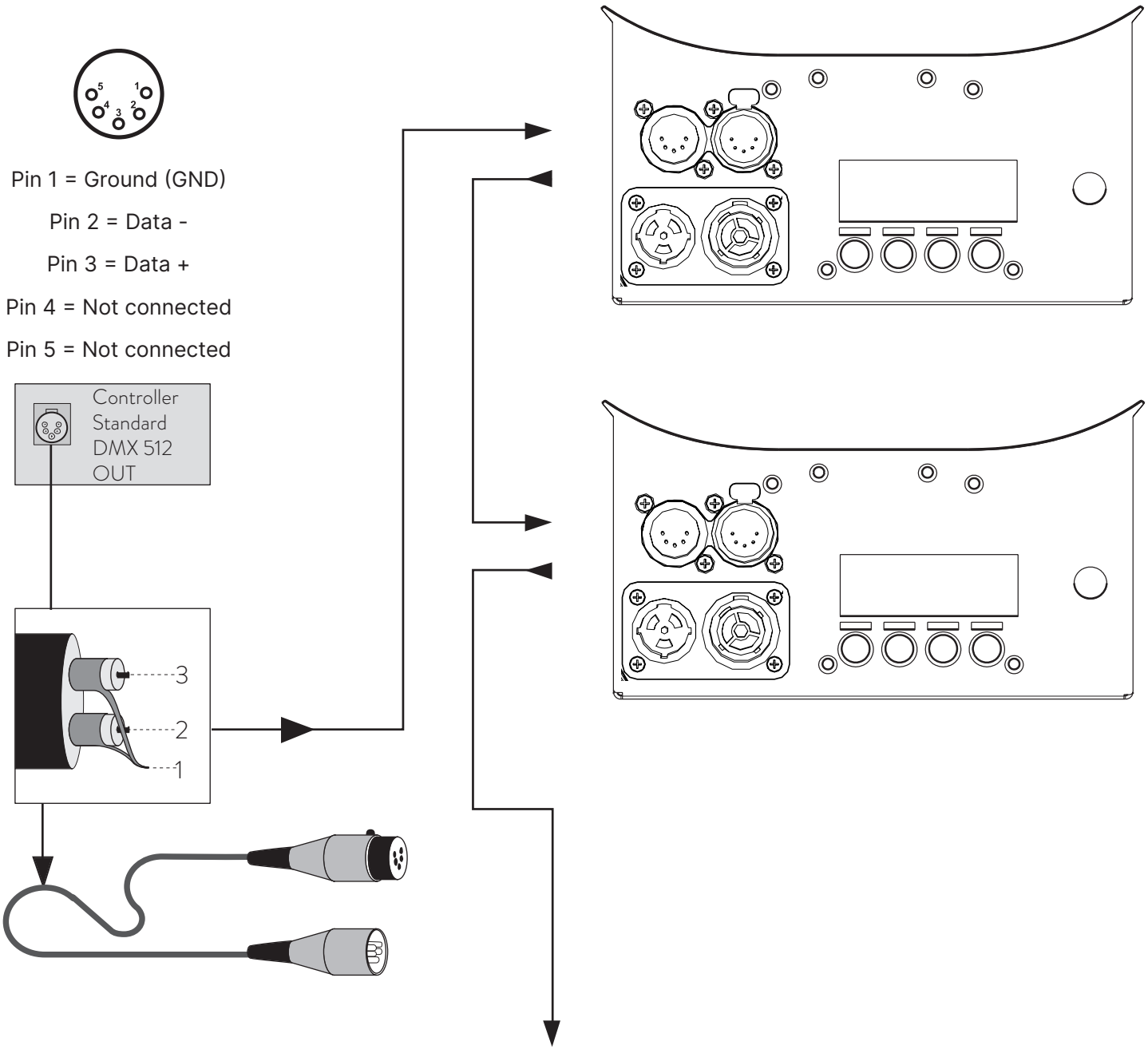

**Warning!!**

The use of a thermal/magnetic circuit breaker is recommended. Strict adherence to regulatory norms is strongly recommended. Ensure that the mains characteristics are within the recommended range for the use of **Romeo**. All 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 **Romeo** 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 Romeo 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 **16** / **7** / **1**, **Studio mode**, **RGB mode**, **fine RGB mode** or **Sunrise mode** (FullSpectrum version)**, 5**, **SUNRISE**, **RAW**, **2**, **1**, **6** or **MK1 mode** (VariWhite version) and **5**, **1** (T/D versions) address channels for its complete operation and is controlled by a DMX 512 signal.

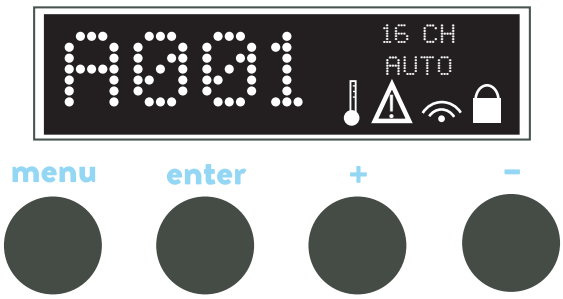
**DMX addressing**

When powered up initially, each projector will show “A001”, which indicates that the fixture will start responding from the first DMX channel; **Romeo** 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 **Romeo** 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 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 Fixed White version

## 8.1 DMX modes Fixed White version

| DMX channels ↓ | 5 channels | 1 channel |
|---|---|---|
| 1 | Master Dimmer | Master Dimmer |
| 2 | Spare Channel | |
| 3 | Dimmer Fine | |
| 4 | Strobe | |
| 5 | Special Function | |

## 8.2 DMX Chart 5 and 1 channels

| channel 5 | channel 1 | function | type of control | effect | decimal | | | percentage | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **1** | **1** | **master dimmer** | proportional | adjust luminous output intensity from 0 to 100% | 0 | - | 255 | 0% | - | 100% |
| **2** | **-** | **spare channel** | step | no effect | 0 | - | 255 | 0% | - | 100% |
| **3** | **-** | **dimmer fine** | proportional | fine dimmer control 16 bit | 0 | - | 255 | 0% | - | 100% |
| **4** | **-** | **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% |
| **5** | **-** | **special functions** | step | park | 0 | - | 9 | 0% | - | 4% |
| | | | | 600 Hz | 10 | - | 22 | 4% | - | 9% |
| | | | | no effect | 23 | - | 84 | 9% | - | 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% |
| | | | | LED control frequency tuning 1.500 Hz | 200 | - | 205 | 78% | - | 80% |
| | | | | LED control frequency tuning 2.000 Hz | 206 | - | 211 | 81% | - | 83% |
| | | | | LED control frequency tuning 5.000 Hz | 212 | - | 217 | 83% | - | 85% |
| | | | | no effect | 218 | - | 240 | 85% | - | 94% |
| | | | | LED control frequency tuning 20.000 Hz | 241 | - | 255 | 95% | - | 100% |

# 9. DMX chart VariWhite version

## 9.1 DMX modes VariWhite version

| DMX channels ↓ | 5 channels | 2 channels | 1 channel | Sunrise mode | Raw mode | 2 (MK1) channels | 6 channels |
|---|---|---|---|---|---|---|---|
| 1 | Master Dimmer | Master Dimmer | Master Dimmer | Master Dimmer | Warm White Led | Master Dimmer | Master Dimmer |
| 2 | Dimmer Fine | White Tone | | Dimmer Fine | Warm White Led Fine | White Tone | Dimmer Fine |
| 3 | White Tone | | | Proportional White Tone | Cold White Led | | White Tone |
| 4 | Strobe Effect | | | Step White Tone | Cold White Led Fine | | White Temperature Fine |
| 5 | Special Function | | | Special Function | | | Strobe Effect |
| 6 | | | | | | | Special Function |

## 9.2 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% |
| **3** | **white tone** | 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% | - | 34% |
| | | step | 4.000 K | 88 | - | 114 | 35% | - | 45% |
| | | 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 6.000 K | 223 | - | 249 | 87% | - | 98% |
| | | step | 6.000 K | 250 | - | 255 | 98% | - | 100% |
| **4** | **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% |
| **5** | **special functions** | step | park | 0 | - | 9 | 0% | - | 4% |
| | | | no effect | 10 | - | 84 | 4% | - | 33% |
| | | | fan at low-noise mode | 85 | - | 96 | 33% | - | 38% |
| | | | fan at studio mode | 97 | - | 108 | 38% | - | 42% |
| | | | fan at auto-silent mode | 109 | - | 120 | 43% | - | 47% |
| | | proportional | fan speed control mode | 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% |

## 9.3 DMX Chart 2/1 channels

| channel 2 | channel 1 | function | type of control | effect | decimal | percentage |
|---|---|---|---|---|---|---|
| 1 | 1 | **master dimmer** | proportional | adjust luminous output intensity from 0 to 100% | 0 - 255 | 0% - 100% |
| 2 | - | **white tone** | proportional | proportional value from 2.700 K to 6.000 K | 0 - 255 | 0% - 100% |

## 9.4 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 - 86 | 0% - 34% |
| | | | 4.000 K | 87 | 34% |
| | | | proportional value from 4.000 to 5.000 K | 88 - 152 | 35% - 60% |
| | | | 5.000 K | 153 | 60% |
| | | | proportional value from 5.000 to 5.600 K | 154 - 192 | 60% - 75% |
| | | | 5.600 K | 193 | 76% |
| | | | proportional value from 5.600 K to 6.000 K | 194 - 254 | 76% - 100% |
| | | | 6.000 K | 255 | 100% |
| 4 | step cct | step | no effect | 0 - 9 | 0% - 4% |
| | | | 2.700 K | 10 - 50 | 4% - 20% |
| | | | 3.200 K | 51 - 91 | 20% - 36% |
| | | | 4.000 K | 92 - 132 | 36% - 52% |
| | | | 5.000 K | 133 - 173 | 52% - 68% |
| | | | 5.600 K | 174 - 213 | 68% - 84% |
| | | | 6.000 K | 214 - 255 | 84% - 100% |
| 5 | special functions | step | park | 0 - 9 | 0% - 4% |
| | | | no effect | 10 - 84 | 4% - 33% |
| | | | fan at low-noise mode | 85 - 96 | 33% - 38% |
| | | | fan at studio mode | 97 - 108 | 38% - 42% |
| | | | fan at auto-silent mode | 109 - 120 | 43% - 47% |
| | | proportional | fan speed control mode | 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.

## 9.5 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% | 0 | - | 255 | 0% | - | 100% |
| 2 | warm white led fine | proportional | warm white led fine control 16 bit | 0 | - | 255 | 0% | - | 100% |
| 3 | cold white led | proportional | adjust luminous output intensity of cold white led from 0 to 100% | 0 | - | 255 | 0% | - | 100% |
| 4 | cold white led fine | proportional | cold white led fine control 16 bit | 0 | - | 255 | 0% | - | 100% |

# 10. DMX chart FullSpectrum version

## 10.1 DMX modes FullSpectrum version

| 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 | | | | | | |

## 10.2 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.

## 10.3 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)

## 10.4 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 | 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% |
| 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% |
| | | 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 | 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:<br>LEDko FullSpectrum 6 HD Studio + | Chart name: DMX512 function | software version: 0.76 or following |
| Edition: 1 | | |

## 10.5 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% |
| | | step | 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:<br>LEDko FullSpectrum 6 HD Studio + | Chart name: DMX512 function | software version: 0.76 or following |
| Edition: 1 | | |

## 10.6 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:<br>LEDko FullSpectrum 6 HD Studio + | Chart name: DMX512 function | software version: 0.76 or following |
| Edition: 1 | | |

# 11. Setup via RDM

## 11.1 Quick guide to menu

The Fixture 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.

## 11.2 RDM Chart

| PARAMETER | DESCRIPTION |
|---|---|
| DMX ADDRESS | Set DMX Address: (1-512) |
| CURVE | Set Dimming Curve: Linear, Logarithmic, Exponential, Halogen, Standard |
| FREQUENCY | **Fixed White version:** from 600 to 20.000 Hz<br>**VariWhite and FullSpectrum version:** fixed at 20.000 Hz |
| LOCK PIN | Set Lock Pin |
| LOCK STATE | Set Screen Lock |
| FACTORY DEFAULT | Factory Reset |
| PERSONALITY | **T/D version personality:** 5 / 1<br>**VariWhite version personality:** 5 / 2 / 1 / Sunrise mode / Raw mode / 2 (MK1) channels / 6 channels<br>**FullSpectrum version 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 |

## 11.3 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 |

# 12. Display panel functions

## 12.1 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 **Romeo**, 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.

## 12.2 Rapid count

Through the display panel of **Romeo** 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.

## 12.3 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**".

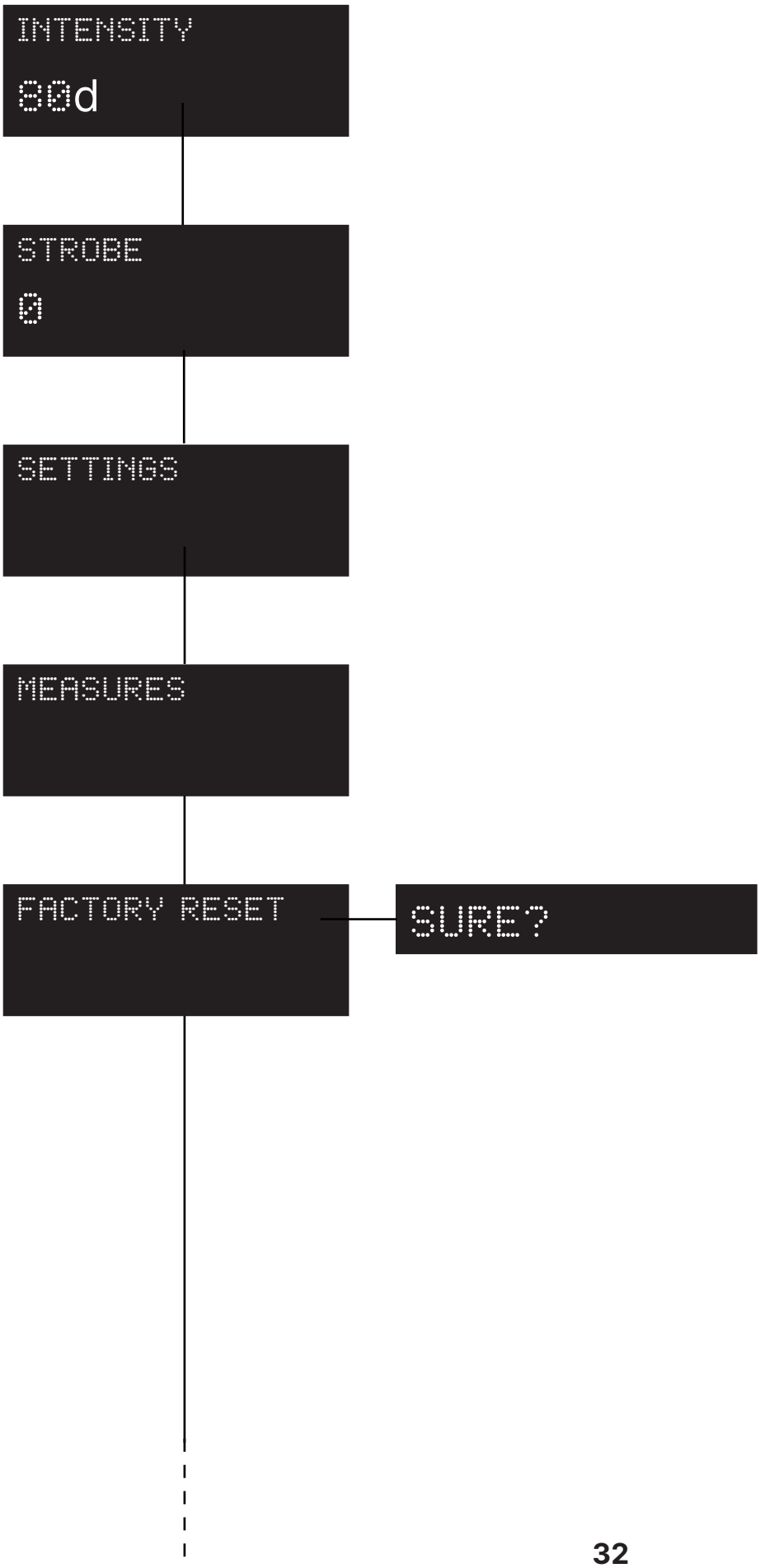
**QUICK START MODE:** If you push the "**Intensity / Selector Knob**" when it is displayed the DMX address, it will open the fast menu. In this case you can choose the CCT, once selected push again the "**Intensity / Selector Knob**" and than choose the light intensity from 0 to 255.


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

# 13. Fixed White version menu

## 13.1 Main functions




**INTENSITY:**

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

**STROBE:**

Manually sets the strobe DMX channel.

**SETTINGS:**

Manually sets various settings of the projector.

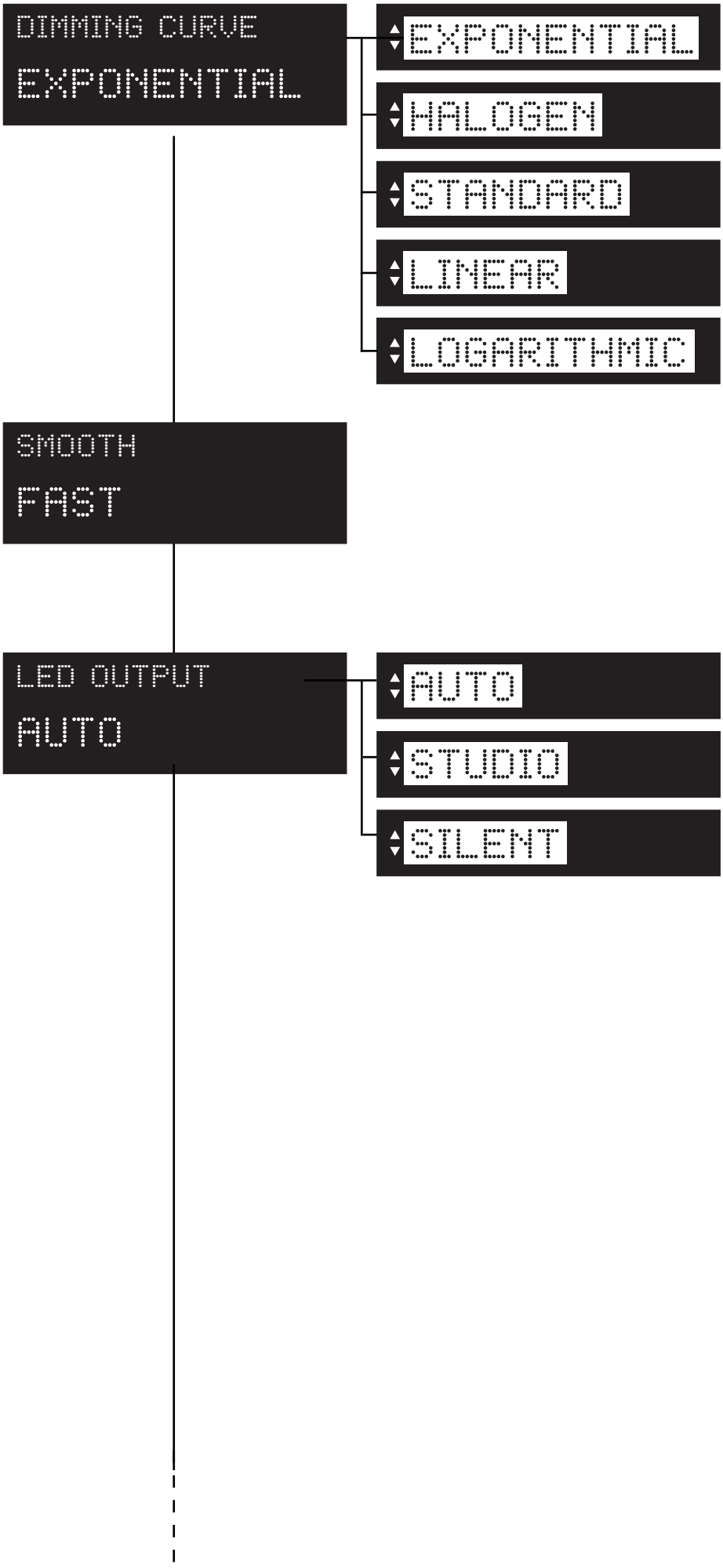
**MEASURES:**

Check all the measures and product status.

**FACTORY RESET:**

Allows to return to the factory settings:
Light Intensity: 80
DMX Channels: 5 CH (Fixed White and VariWhite versions),
16 CH (FullSpectrum version)
Fan: Auto mode
Strobe: 0
Frequency: 600 Hz (Fixed White version), 20.000 Hz (VariWhite and FullSpectrum versions)

## 13.2 Settings




**DIMMING CURVE:**

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

**SMOOTH:**

Allows to change the speed of every dimming curve between **FAST** (standard)**, SLOW, VERY SLOW**.

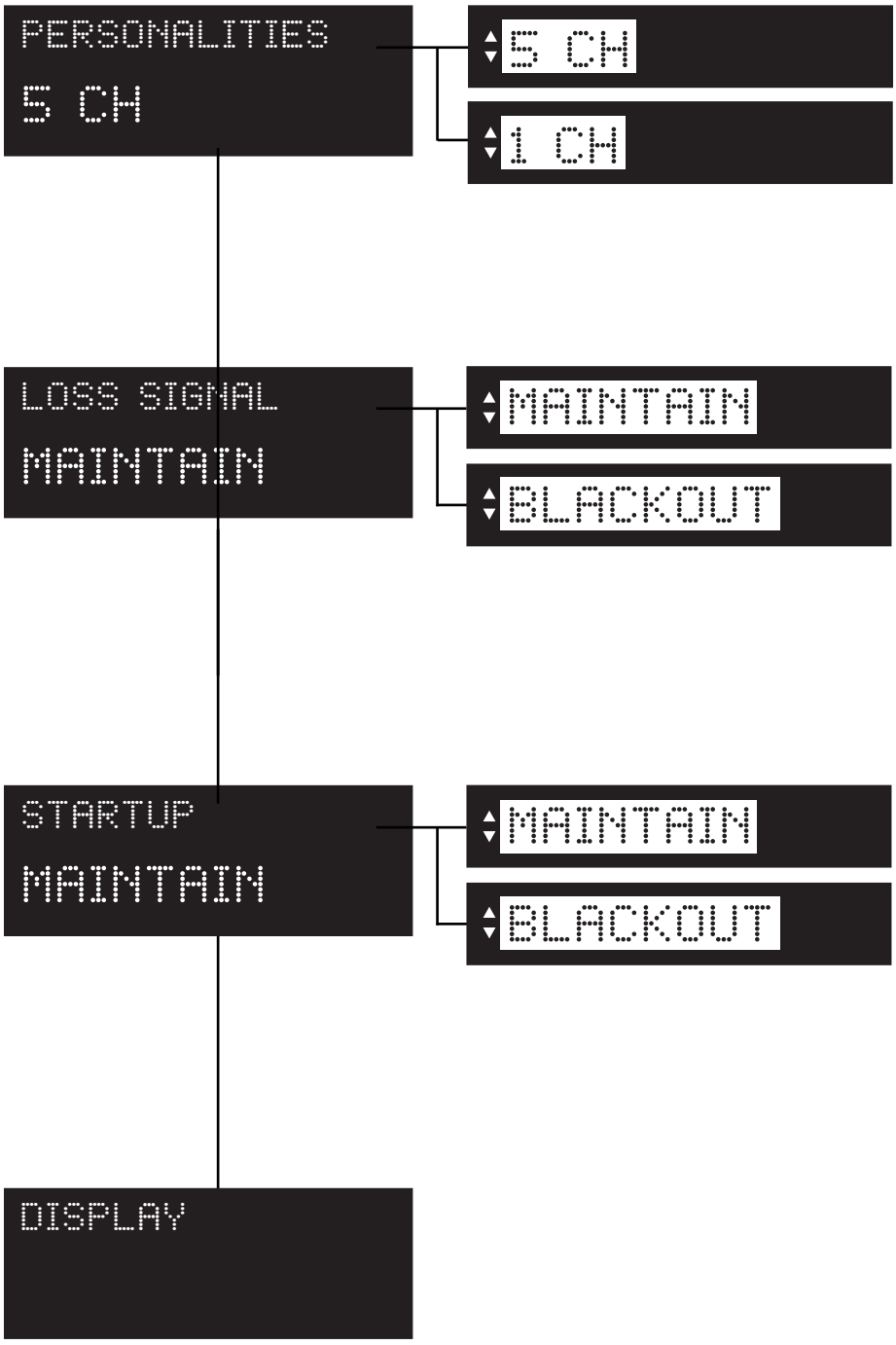
**LED OUTPUT:**

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 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.




**PERSONALITIES:**

It is possible to choose between **5** channels or **1** channel, 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).

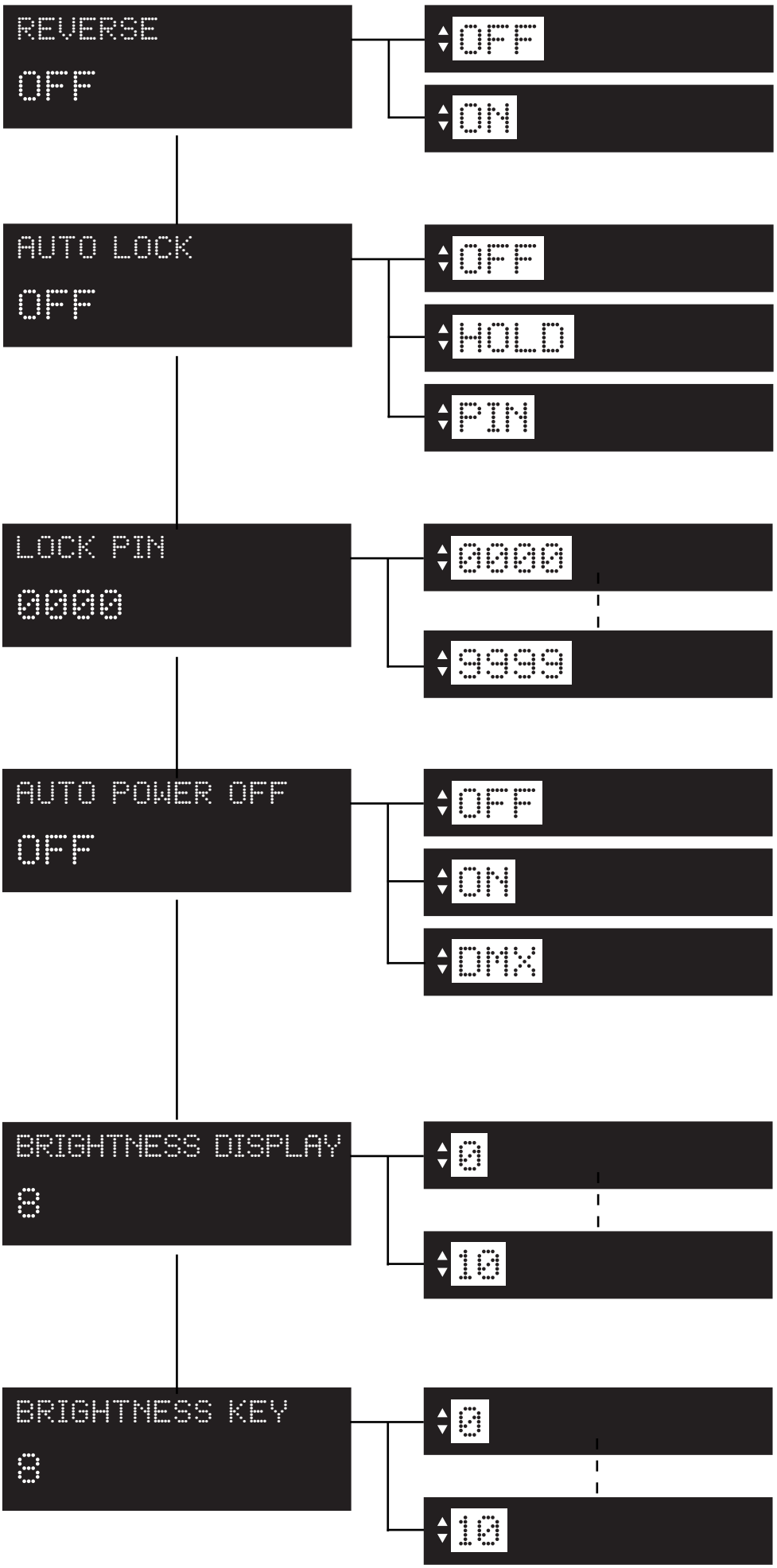
**STARTUP:**

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.

## 13.3 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.

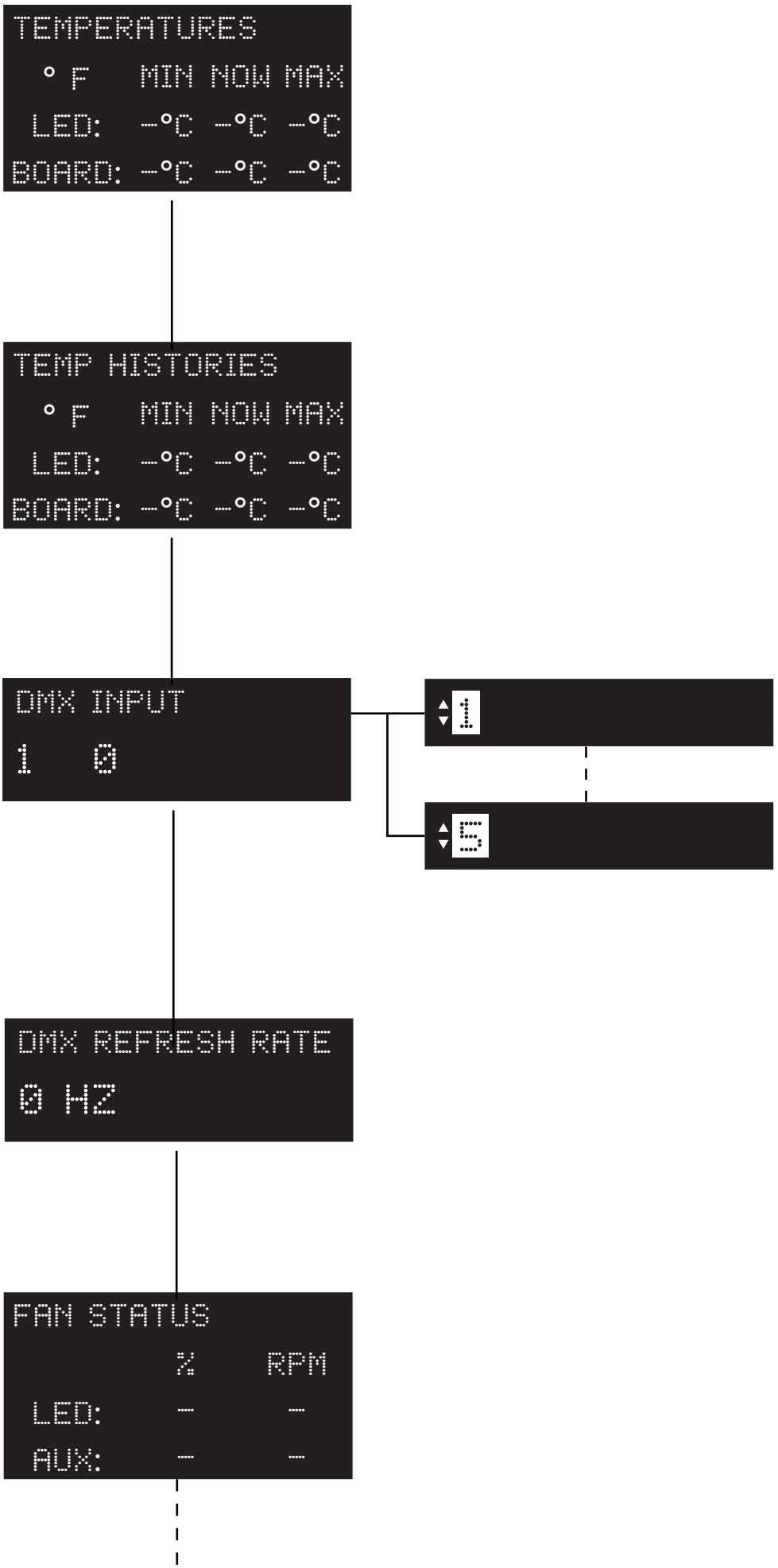
**LOCK PIN:**
Allows to set your personal lock pin (from 0000 to 9999).

**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).

## 13.4 Measures



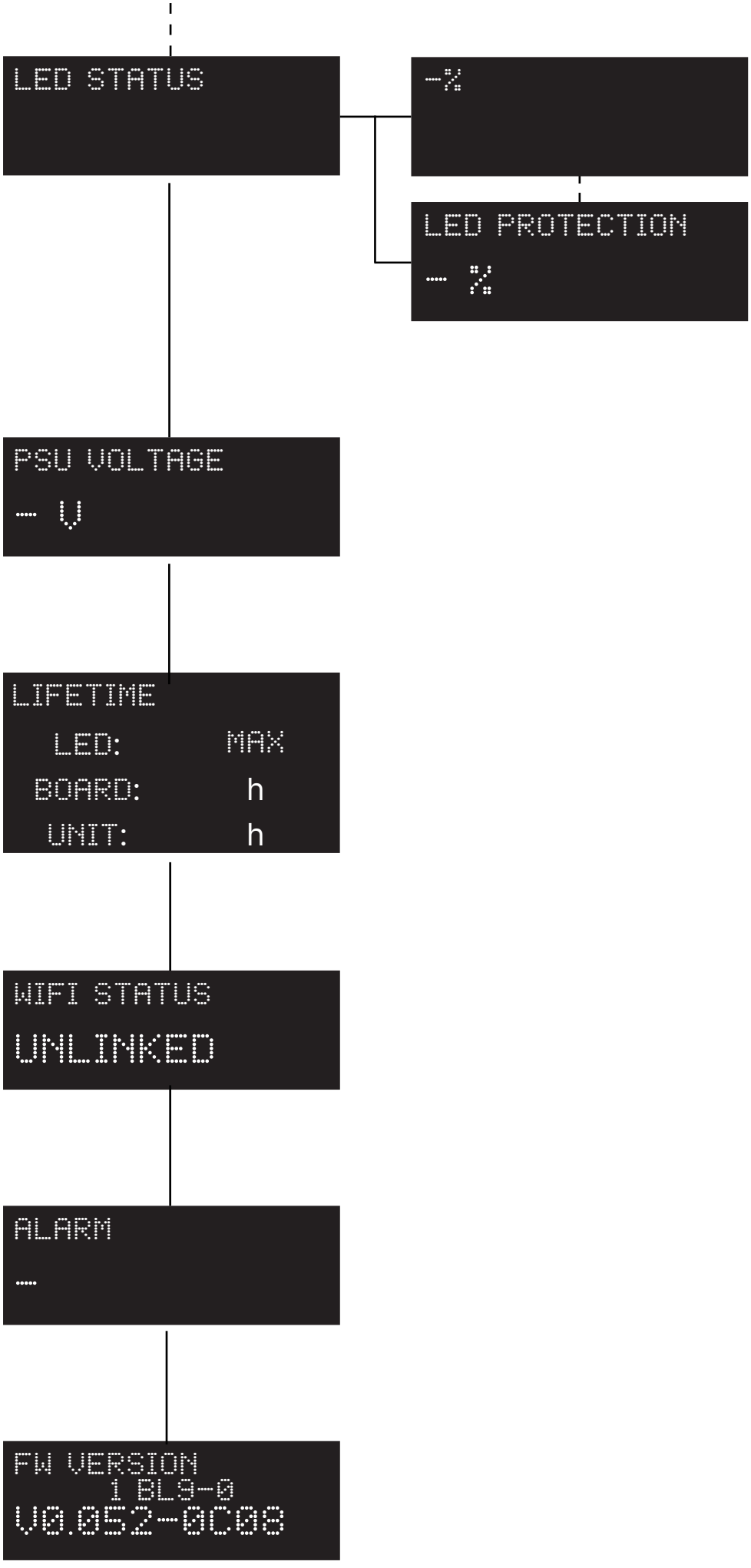

**TEMPERATURES:**
Shows the current temperature values of the fixture.
**LED:** shows the LED module temperature.
**BOARD:** shows the electronic board temperature.

**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.

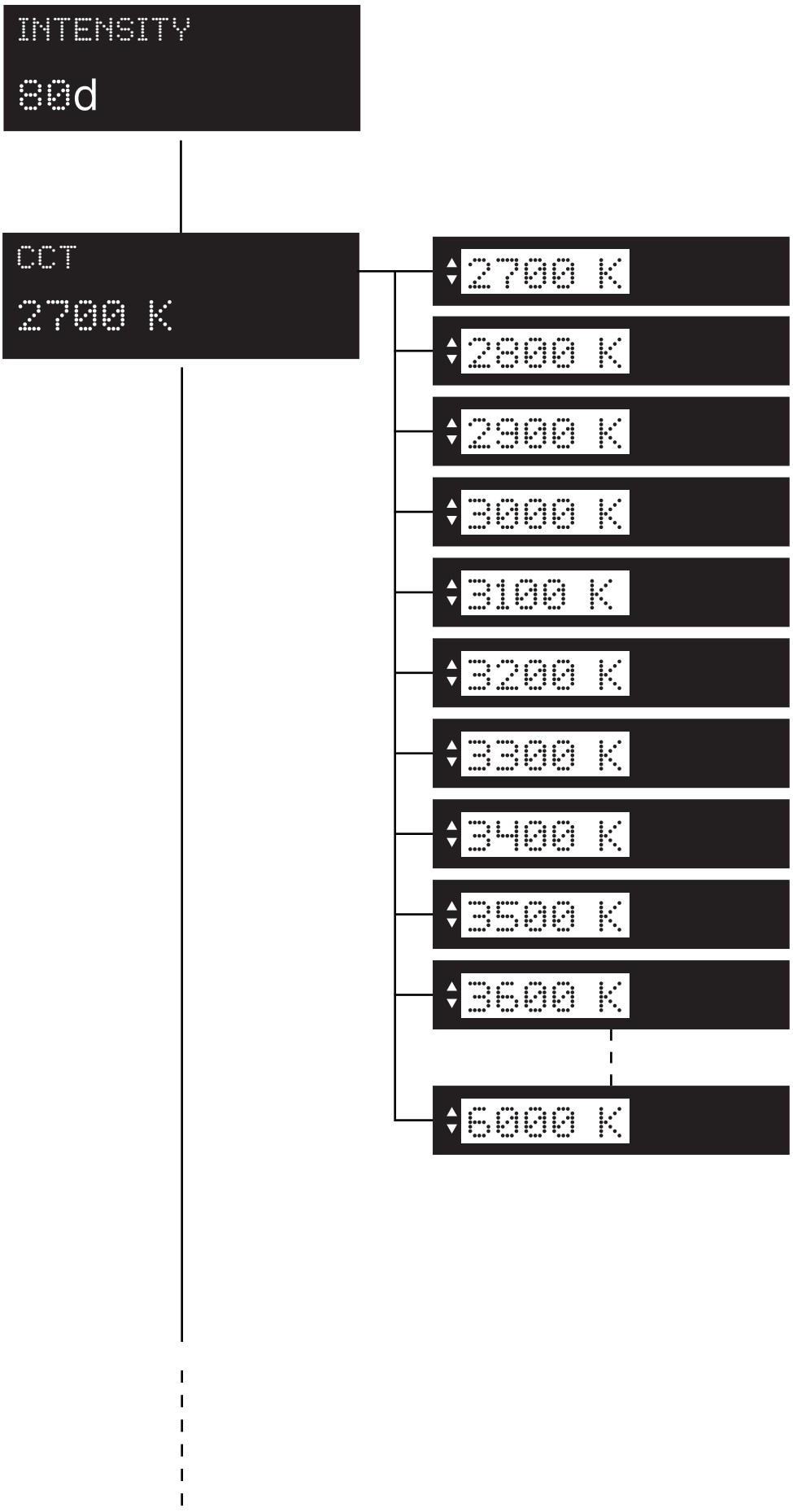
**LIFETIME:**
Shows the hour counter of the fixture.
**LED:** shows the overall LED module life.
**BOARD:** shows the overall LED module life currently installed. **UNIT LIFE:** shows the overall hours of life of the fixture.
**Note:** this items can be reset in case of LED module replacement.

**ALARM:**
This menu eventually shows the alarm statuses if there is any.

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

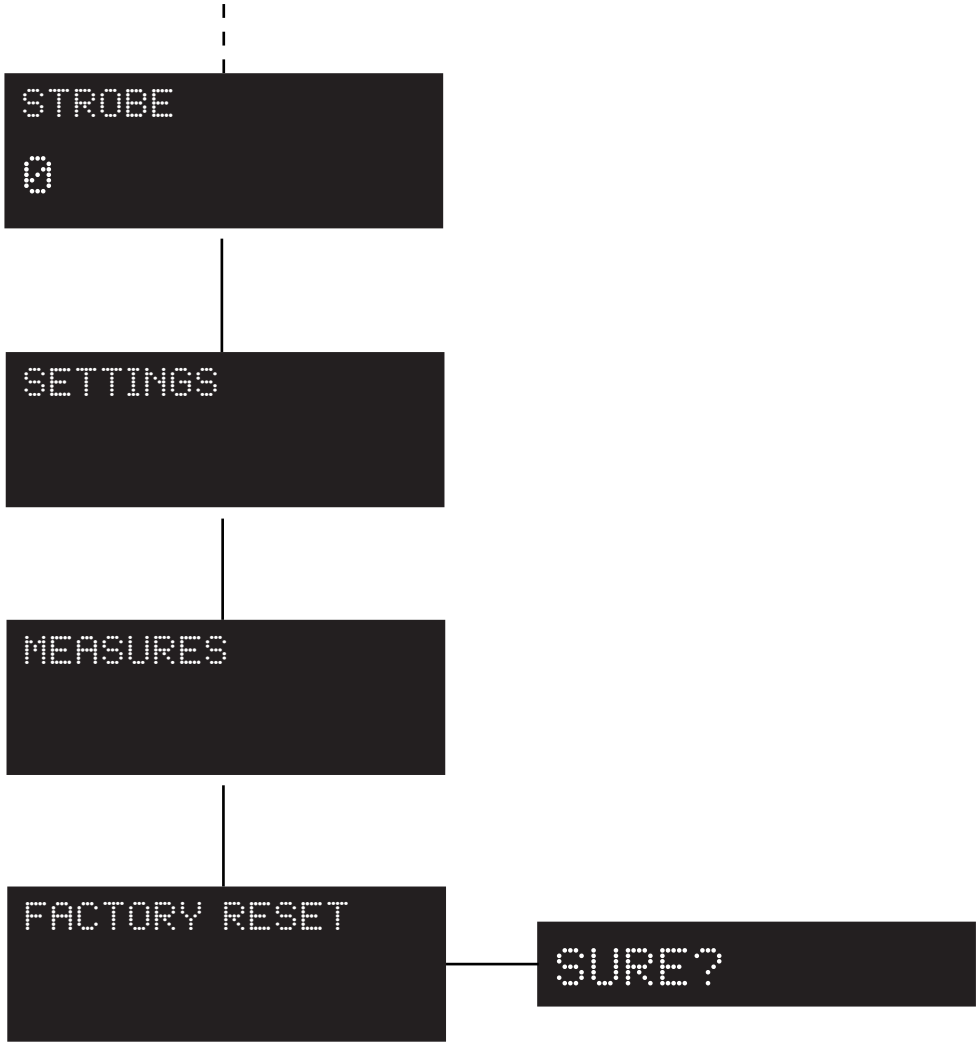
# 14. VariWhite version menu

## 14.1 Main functions




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



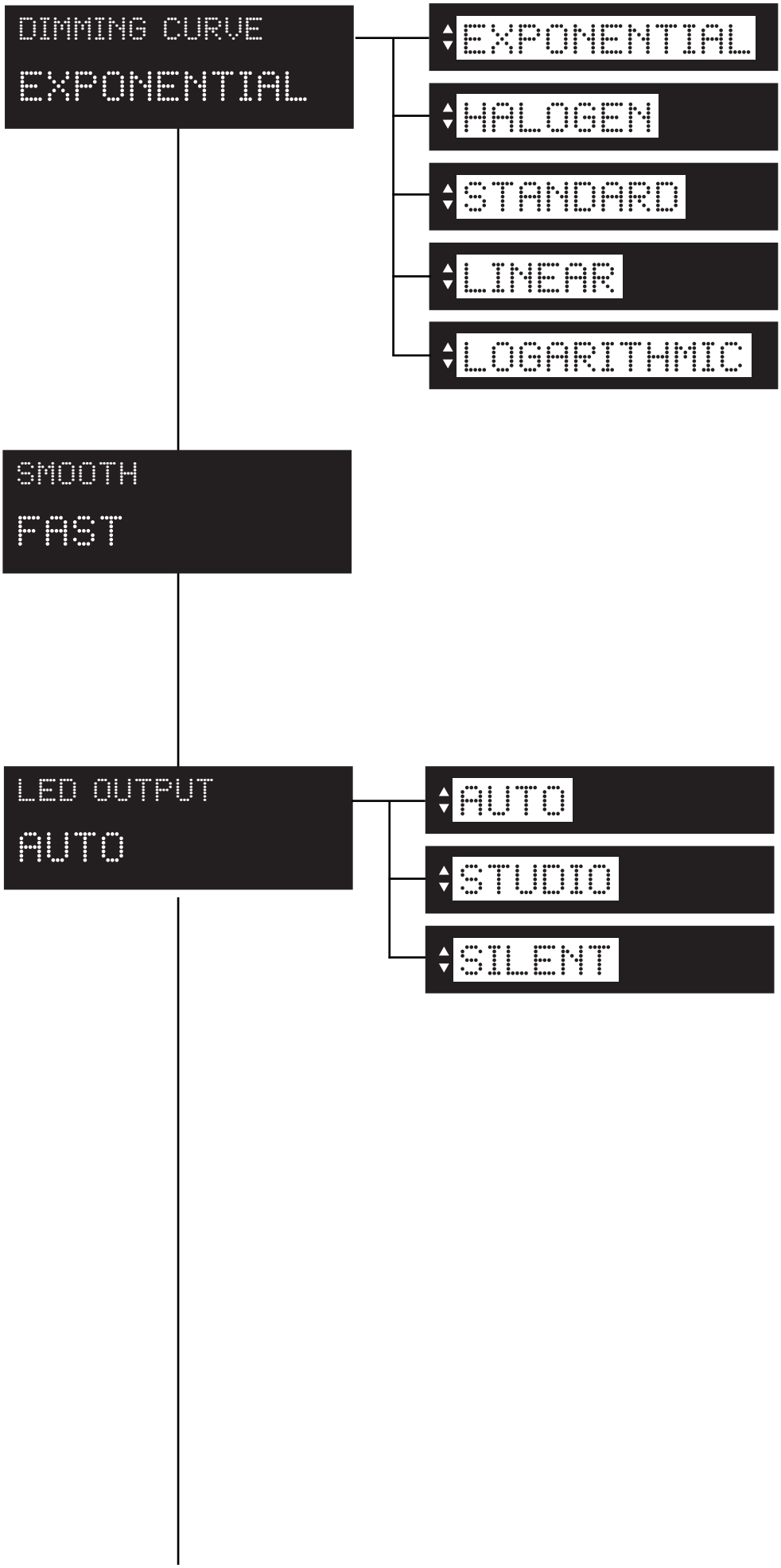

**STROBE:**
Manually sets the strobe DMX channel.

**SETTINGS:**
Manually sets various settings of the projector.

**MEASURES:**
Check all the measures and product status.

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

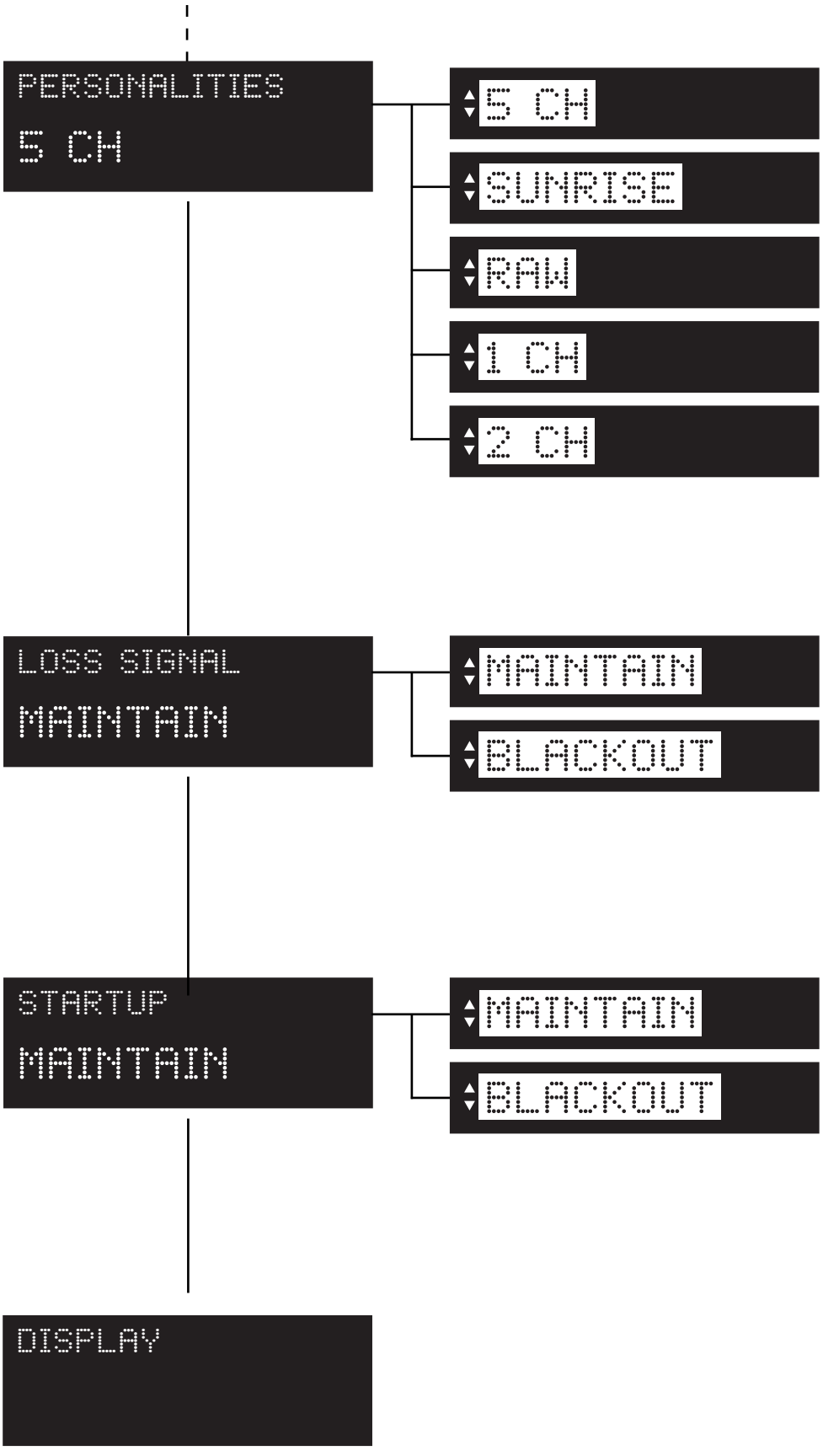
## 14.2 Settings




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

**SMOOTH:**
Allows to change the speed of every dimming curve between **FAST** (standard)**, SLOW, VERY SLOW**.

**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 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.



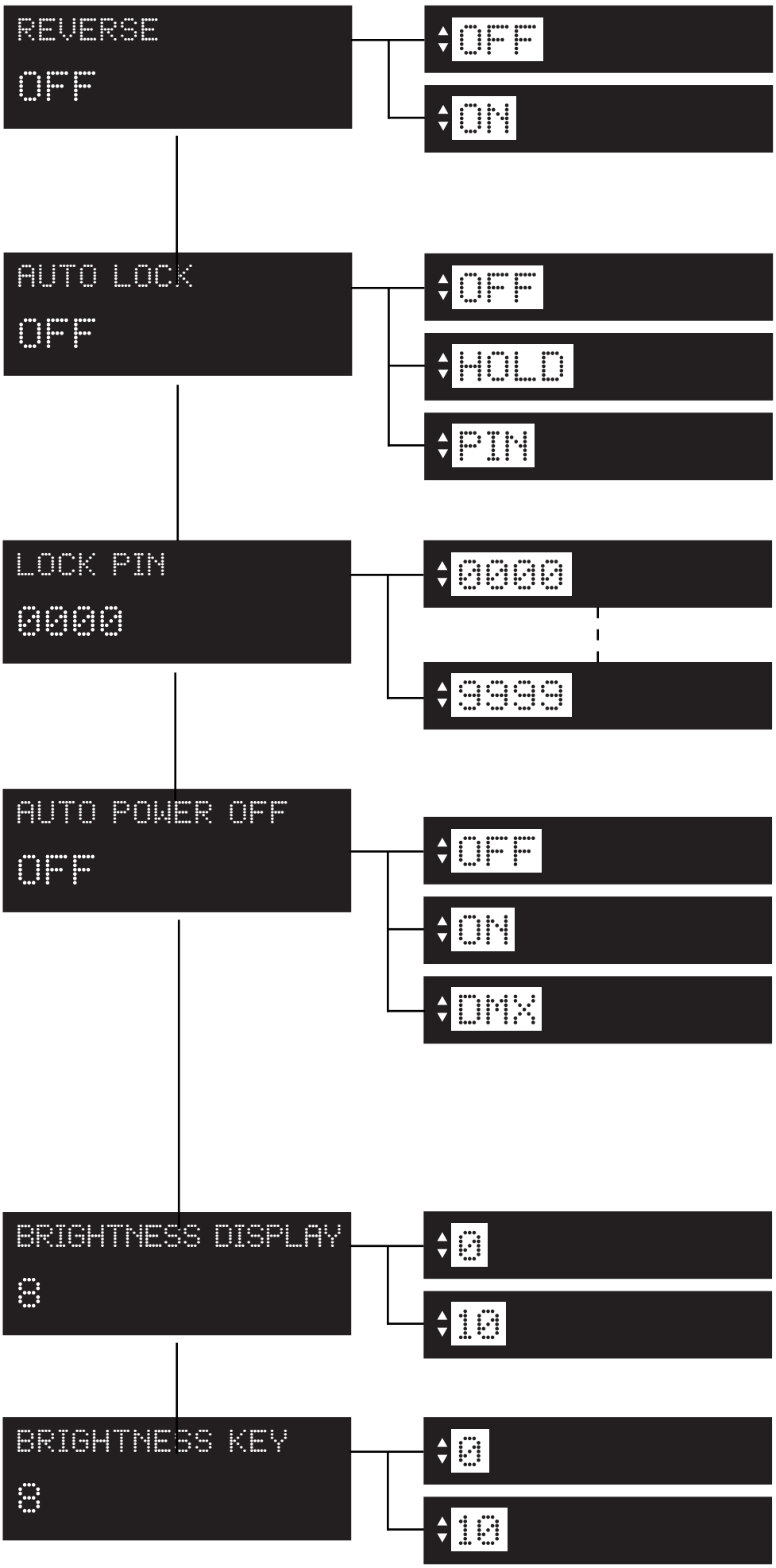

**PERSONALITIES:**
It is possible to choose between **5**, **SUNRISE**, **RAW**, **1** or **2** modalities, in which the projector will operate.

**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.

## 14.3 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.

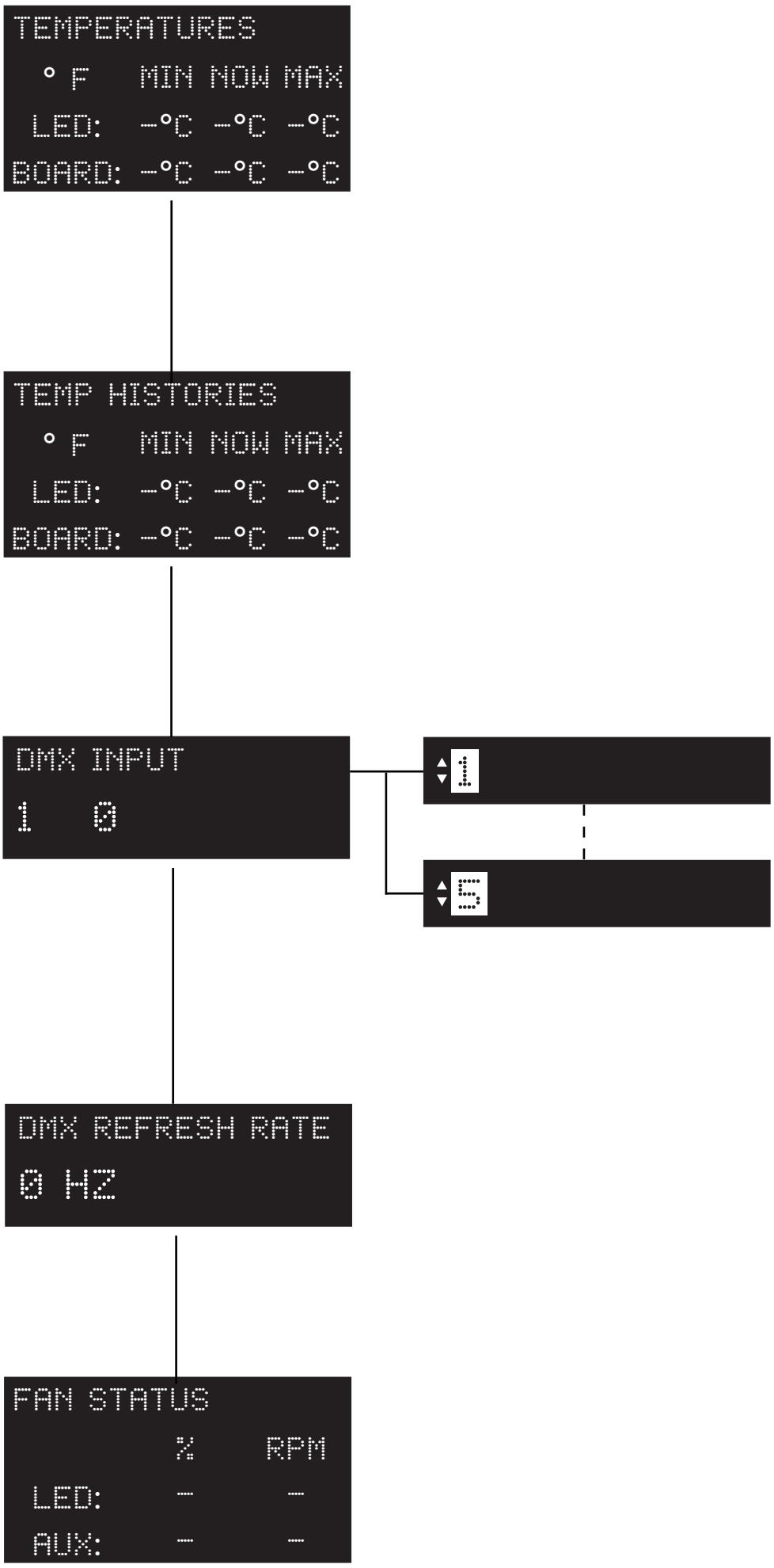
**LOCK PIN:**
Allows to set your personal lock pin (from 0000 to 9999).

**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).

## 14.4 Measures



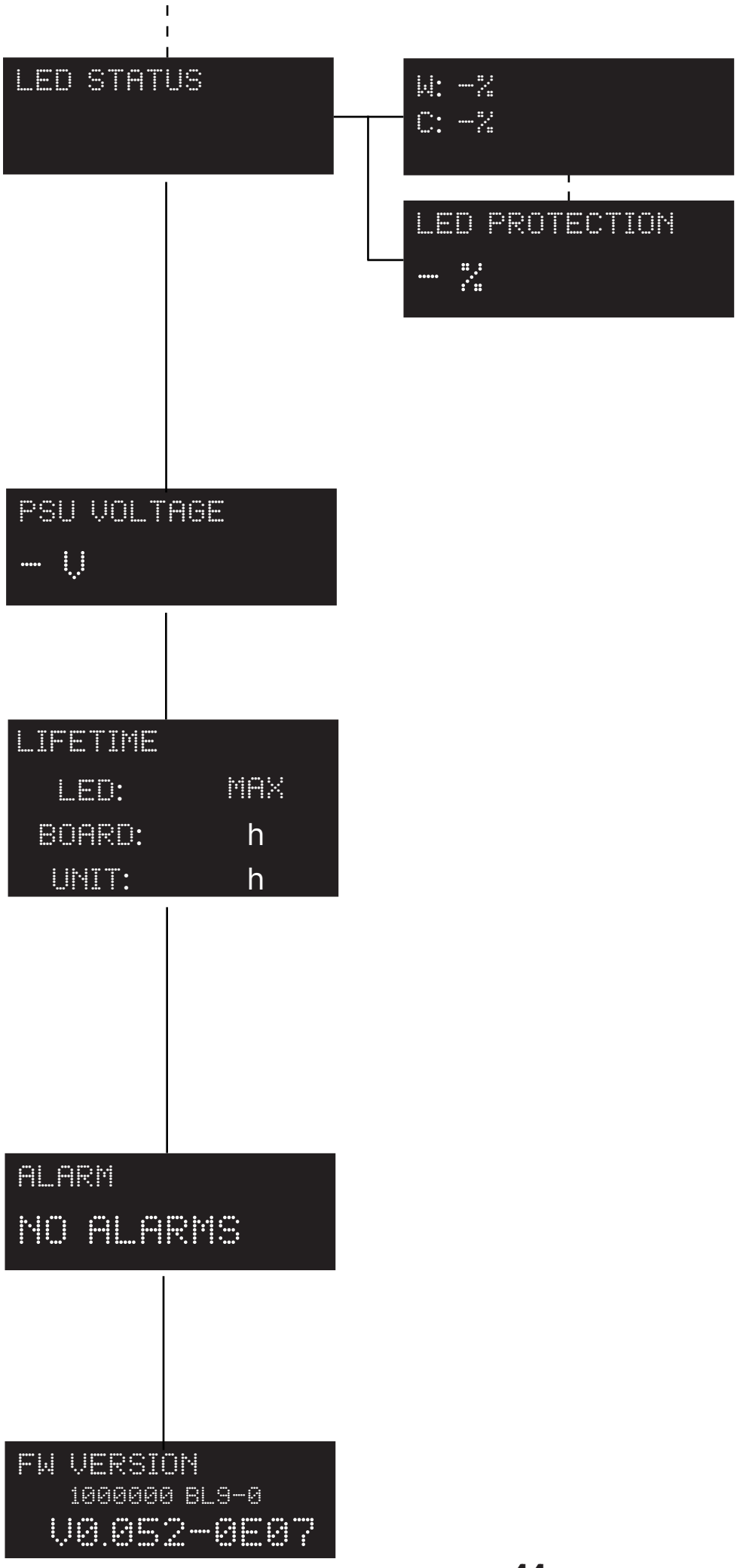

**TEMPERATURES:**
Shows the current temperature values of the fixture.
**LED:** shows the LED module temperature.
**BOARD:** shows the electronic board temperature.

**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.

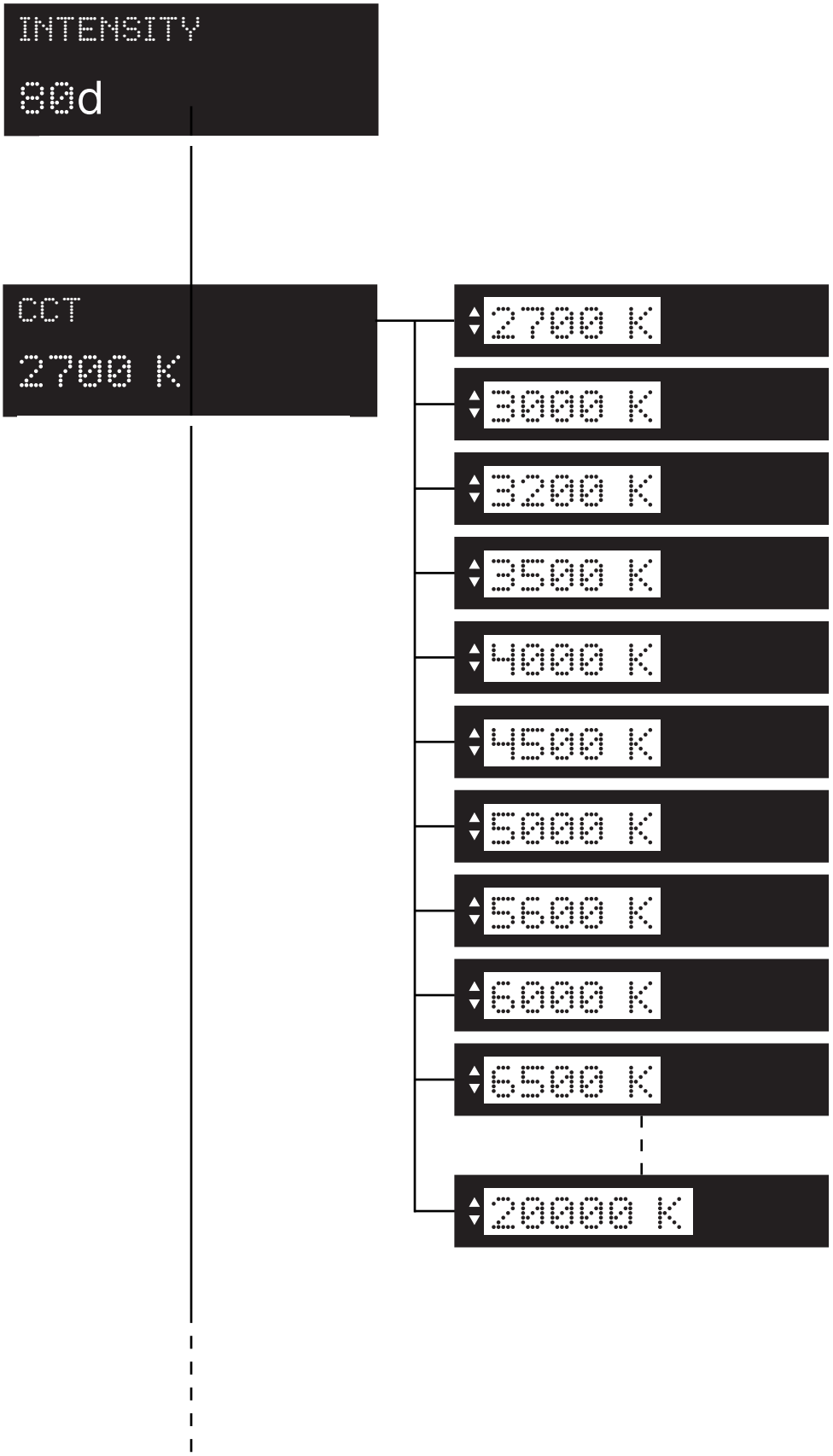
**LIFETIME:**
Shows the hour counter of the fixture.
**LED:** shows the overall LED module life.
**BOARD:** shows the overall LED module life currently installed. **UNIT LIFE:** shows the overall hours of life of the fixture.
**Note:** this items can be reset in case of LED module replacement.

**ALARM:**
This menu eventually shows the alarm statuses if there is any.

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

# 15. FullSpectrum version menu

## 15.1 Main functions menu

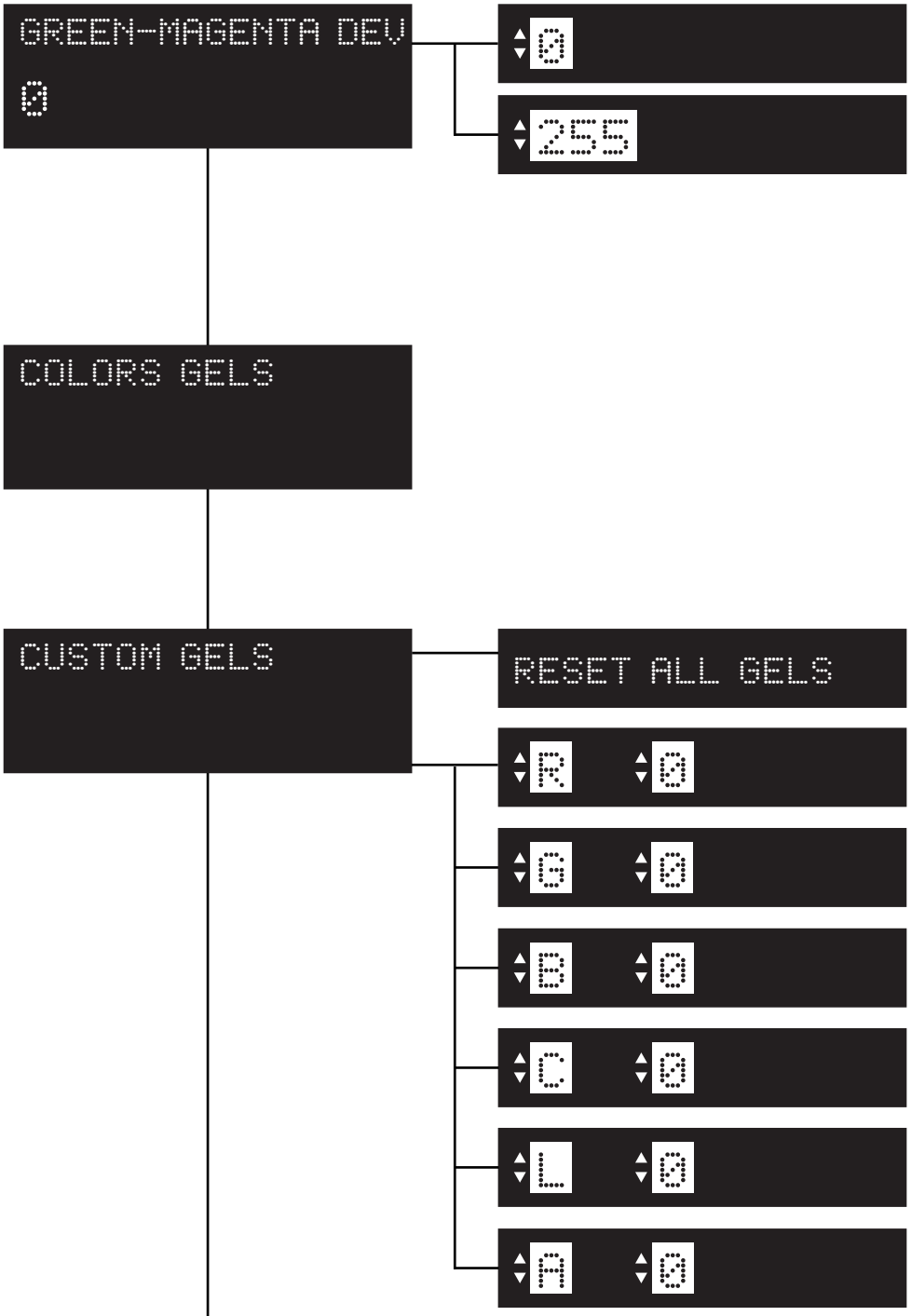



**INTENSITY:**

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.



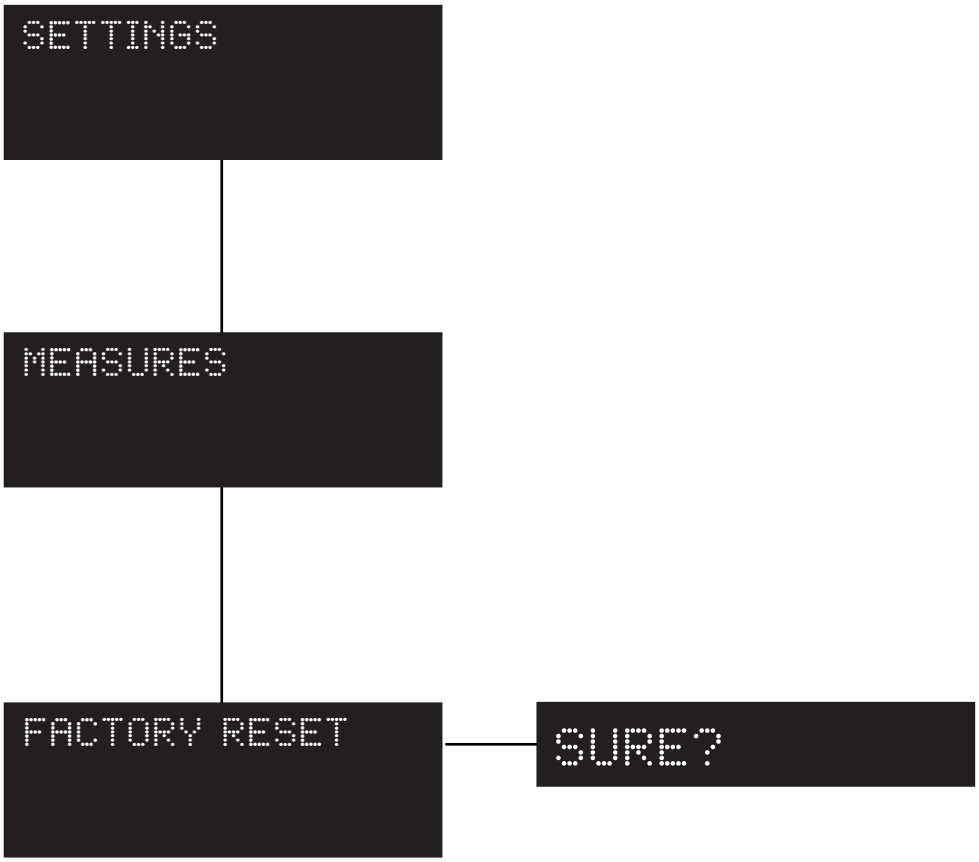

**GREEN-MAGENTA DEV:**
Allows to adjust the luminous output intensity from 0 to 255 (d: decimal units).

**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**).

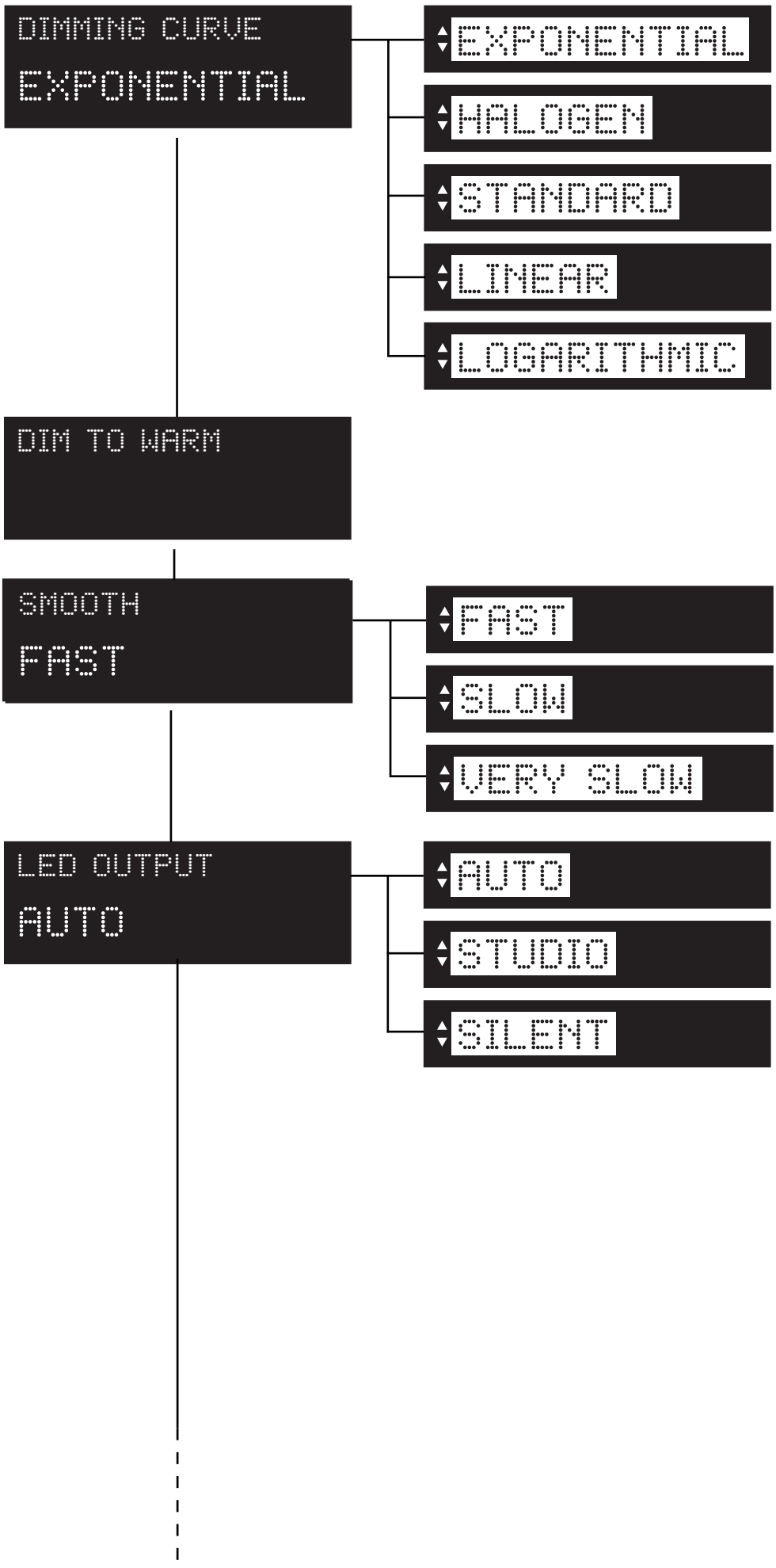



**SETTINGS:**
Manually sets various settings of the projector (section **SETTINGS**).

**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.

## 15.2 Settings

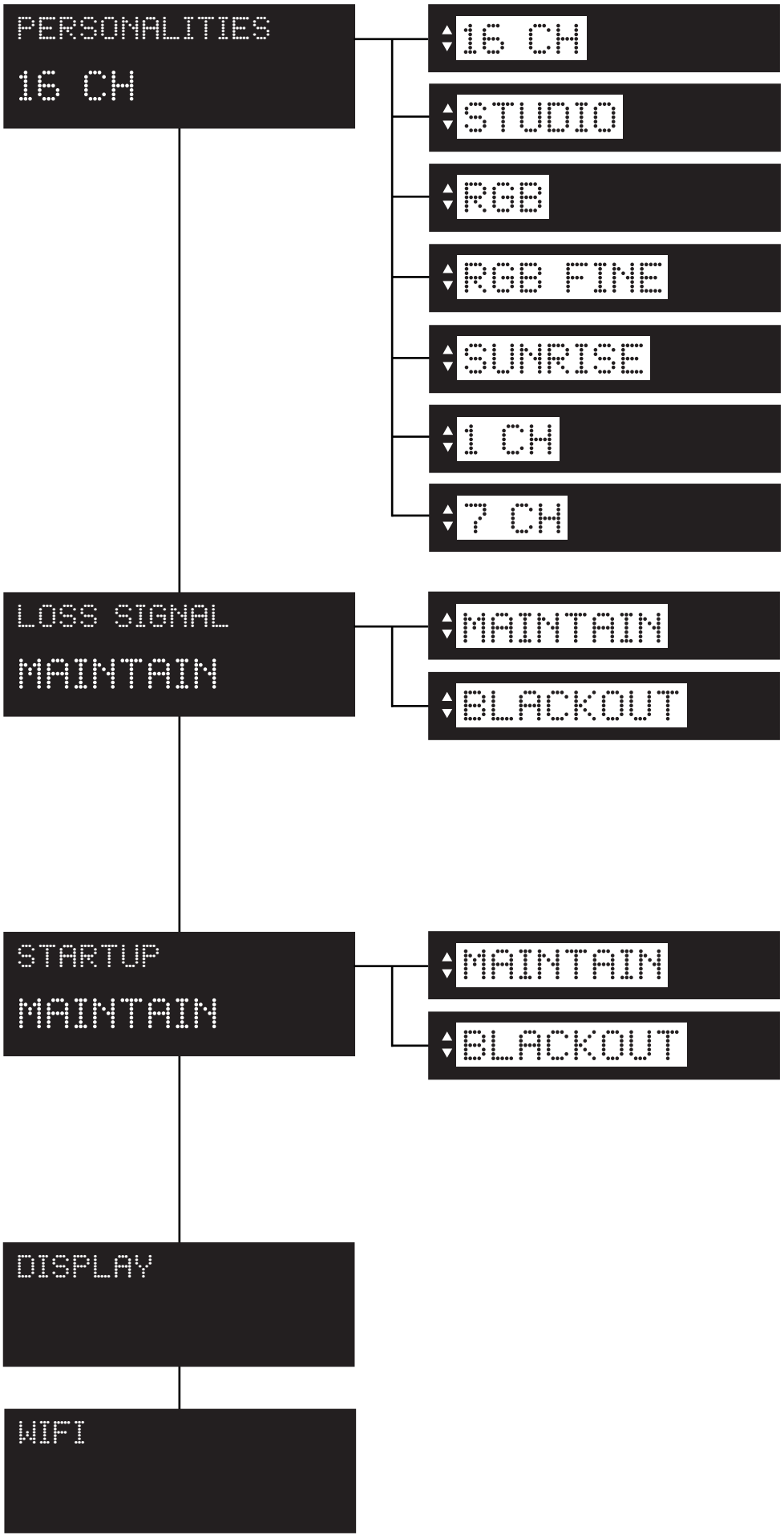



**DIMMING CURVE:**
It allows the selection of different dimmer curves: exponential (default), halogen, standard, linear and logarithmic.

**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 overheat) 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 overheat) 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.

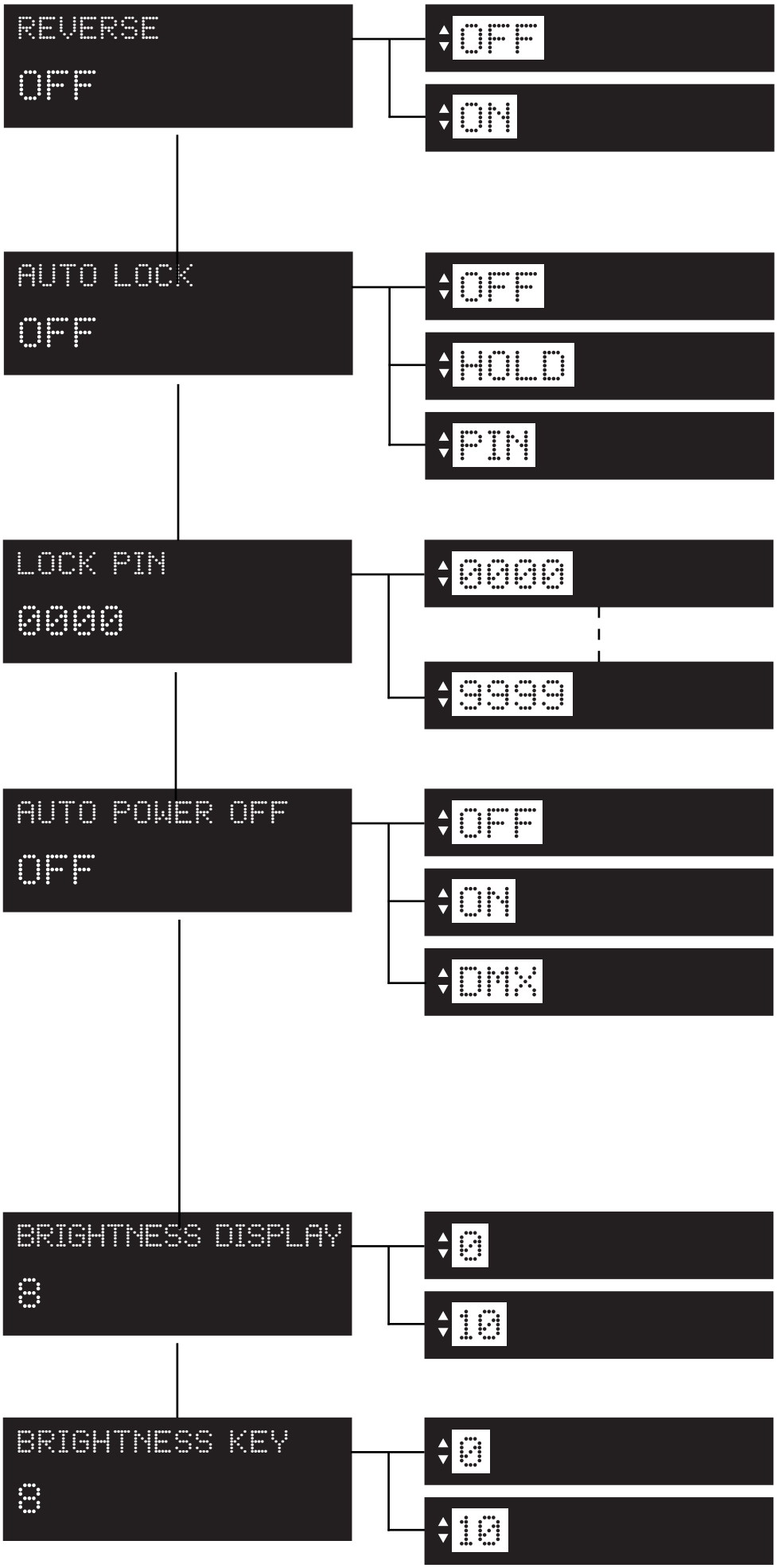
It is possible to choose between “maintain” (this function allows to keep the settings even in case of ) and “blackout” (in case of , the projector will go into blackout).

**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**).

## 15.3 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.

Locks the keys.
Auto Lock function in OFF
Press any key for 3 seconds to unlock.
Use your personal lock pin to unlock.

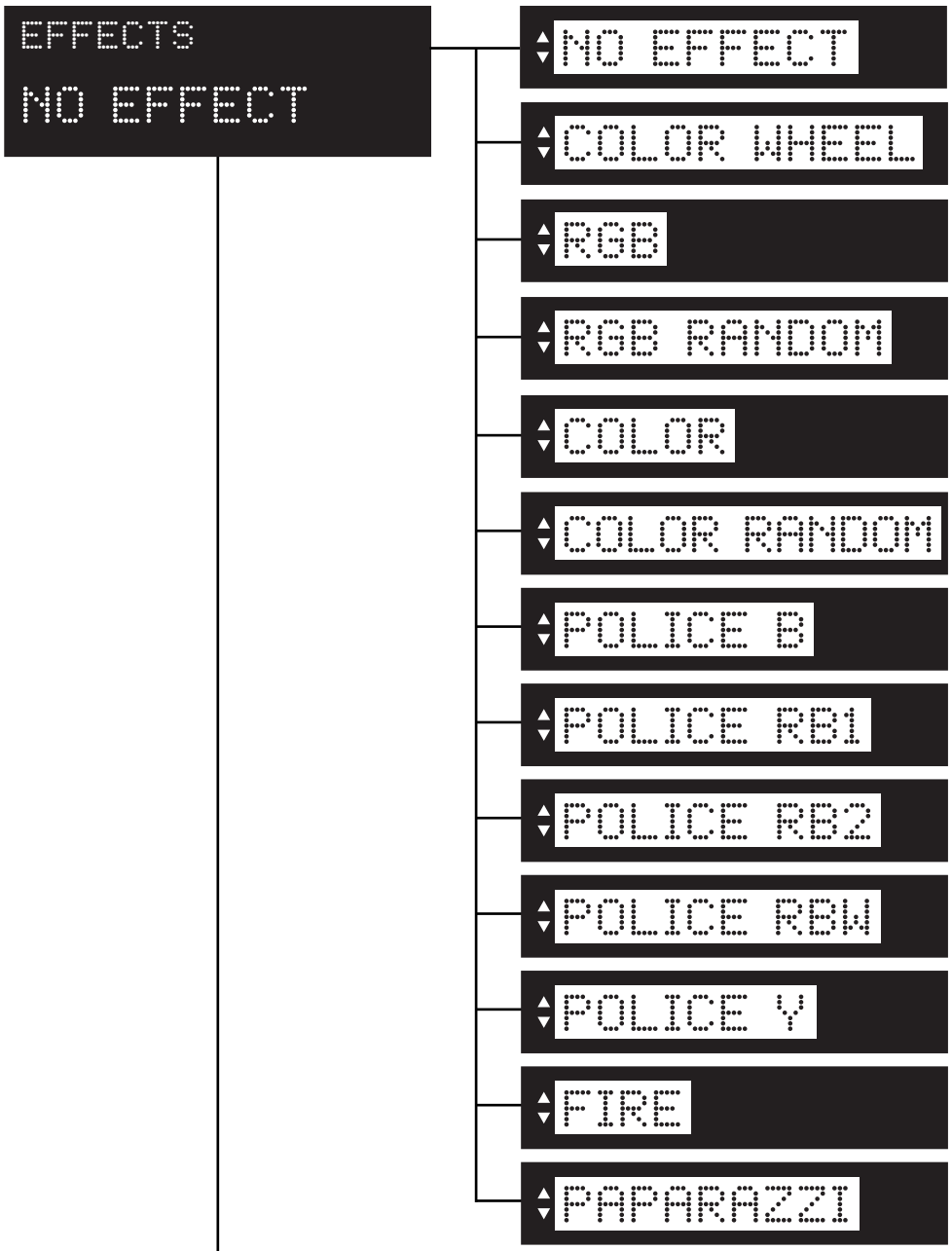
Allows to set your personal lock pin (from 0000 to 9999).

Auto Power OFF in OFF
Causes the projector display to turn off after 30 seconds of inactivity.
Causes the projector display to turn off after 30 seconds of inactivity, but the display will turn automatically ON in case of signal loss

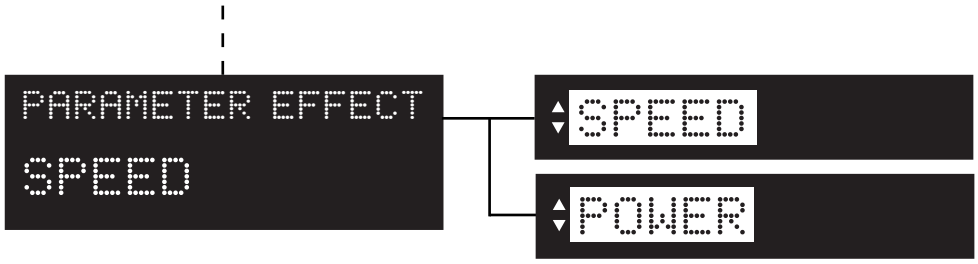
**BRIGHTNESS DISPLAY:**
Allows to change the brightness of the display (from 0 to 10).

**BRIGHTNESS KEY:**
Allows to change the brightness of the key (from 0 to 10).

## 15.4 Effects

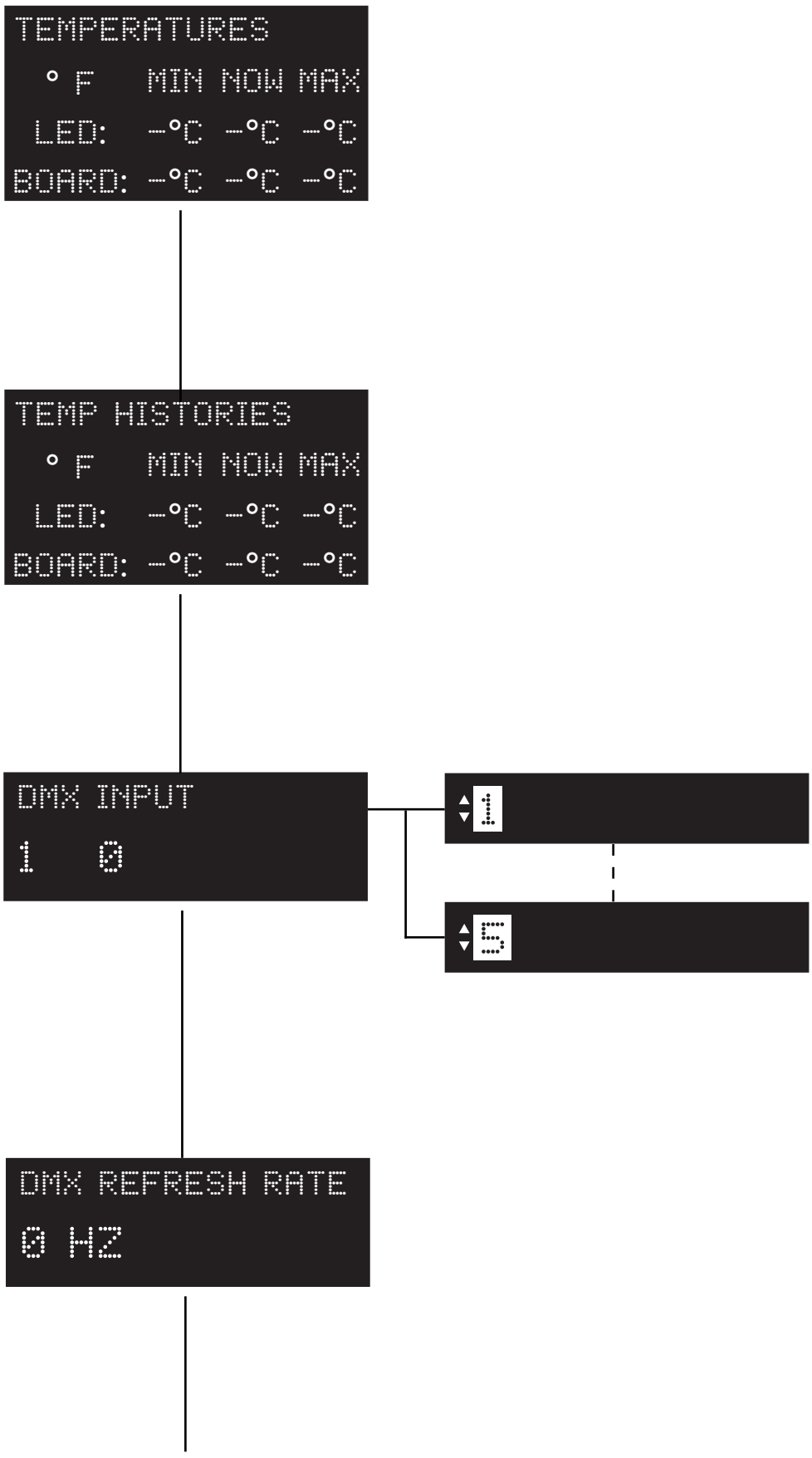



**EFFECTS:**
It is possible to choose between the following effects:
**COLOR WHEEL:** replicates the color wheel by applying a fade effect between colors (Red, Yellow, Green, Cyan, Blue, Magenta);
**RGB:** replicates the RGB colors in rotation following the order Red, Green, Blue;
**RGB RANDOM:** replicates 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.

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



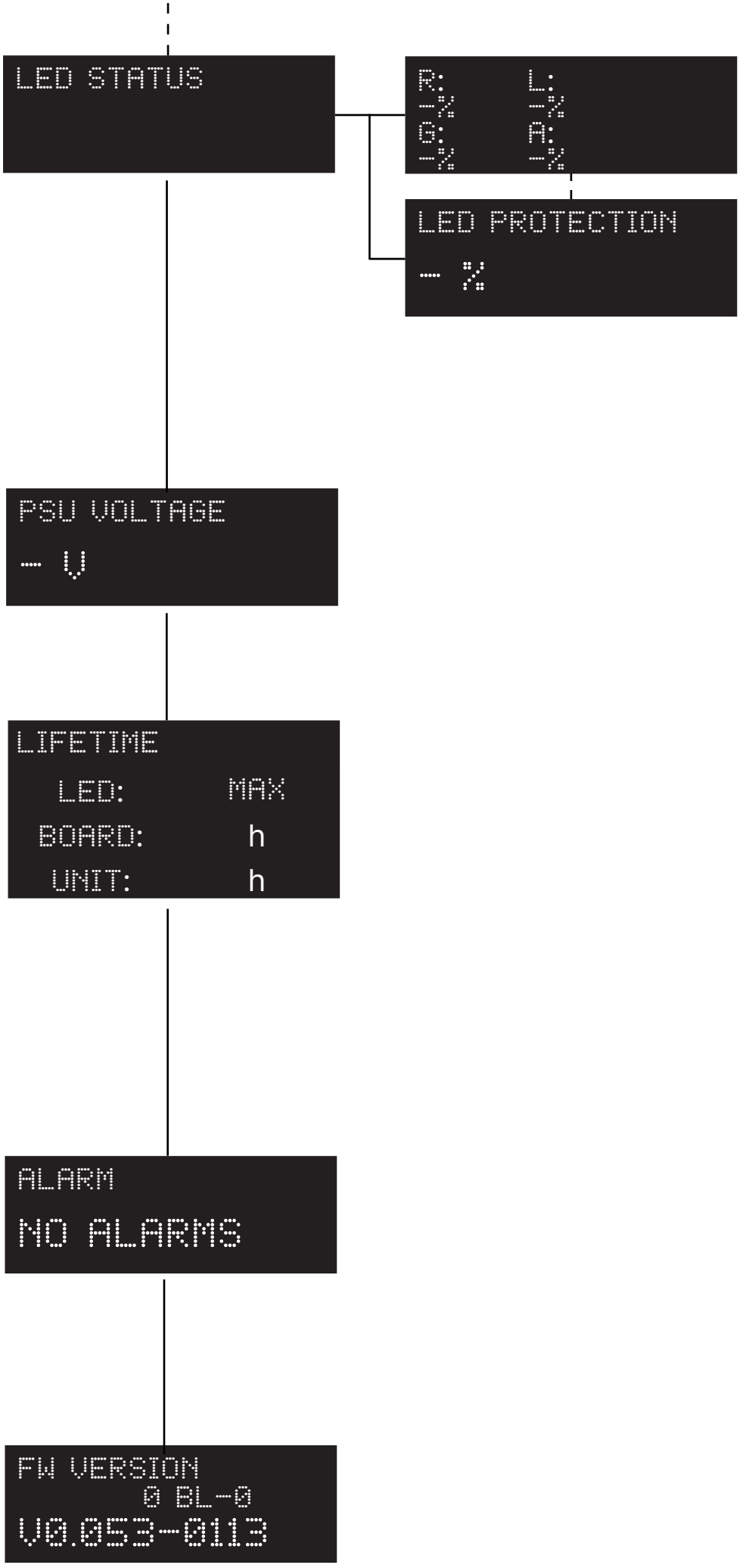

**TEMPERATURES:**
Shows the current temperature values of the fixture.
**LED:** shows the LED module temperature.
**BOARD:** shows the electronic board temperature.

**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.

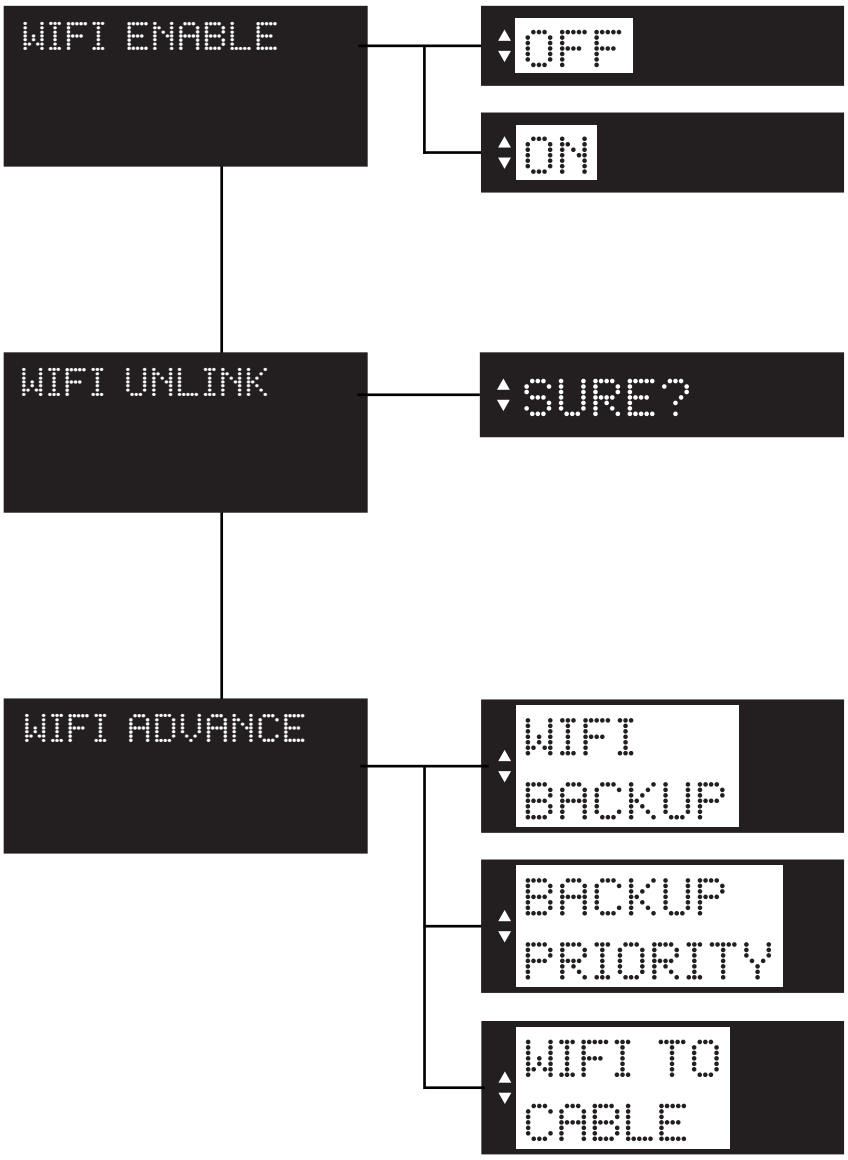
**LIFETIME:**
Shows the hour counter of the fixture.
**LED:** shows the overall LED module life.
**BOARD:** shows the overall LED module life currently installed.
**UNIT LIFE:** shows the overall hours of life of the fixture.
**NOTE:** this items can be reset in case of LED module replacement.

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

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

# 16. Wi-Fi Menu (OPTIONAL)

## 16.1 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.

# 17. Special Function and Error Messages

## 17.11 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 fans standby

To decrease the noise and the power consumption the cooling fans (the LED one and the Electronics one) turns off after 40 seconds without emitting light.

## 17.12 Error messages

If a malfunction occurs, **Romeo** 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**<br>Indicates that the projector has lost its memory and saved data |
| HW MEMORY | **HW Memory Error**<br>Indicates that there is an Hardware Memory Error |
| DMX ADDR | **DMX Address Error**<br>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**<br>LED temperature sensor missing or damaged. |
| SHORT NTC | **Short NTC Error**<br>Error of the LED's sensor circuit. |
| FAN SPEED | **Fan Speed Error**<br>Auto diagnostic routine found that the Fan may be damaged, contact Coemar assistance for the module replacement.<br>**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**<br>Indicates that the product has reached a too high temperature. |

# 18. Spare parts

All **Romeo**'s spare parts are available from your Coemar service centers. Specifying in detail the projector model and the replacement part requested, will help the service center to serve you in the best way.

# 19. Maintenance

## 19.1 Periodic cleaning

**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 fan and heat exchanger must be perfectly clean.

## 19.2 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.

# 20. 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 qualified personnel or just contact your **Coemar** service near you.

| Question | Possible solution |
|---|---|
| **Romeo**<br>does not emit light | **Projector not powered:**<br>• Make sure the power cord is plugged in or test the input voltage in the projector in which **Romeo** is installed;<br>• Make sure the **Romeo** is well inserted into the socket. |

# User notes

**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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