# Volero Cube
## User Menu

11/2025

## USER MENU GUIDE

**IMPORTANT NOTES:** All the default setting are highlighted in a grey color.
**Invert display:** Press top and bottom buttons in the home menu for 3 seconds.

## SETUP

| *Main Menu* | *Level 1* | *Level 2* | *Level 3* | *Choices / Values* |
|---|---|---|---|---|
| SETUP | Basic Engine | Mode | → | Standard |
| | | | | Shape |
| | | | | Advanced |
| | | Source | → | DMX |
| | | | | Art-Net |
| | | | | sACN |
| | | Universe | → | 000 – 255 |
| | | DMX Address | → | 001 – 512 |
| | Pixels Engine | Mode | → | Disabled |
| | | | | RGBW |
| | | Source | → | DMX |
| | | | | Art-Net |
| | | | | sACN |
| | | Universe | → | 000 – 255 |
| | | DMX Address | → | 001 – 512 |
| | Strobe Engine | Mode | → | Disabled |
| | | | | Strobe |
| | | Source | → | DMX |
| | | | | Art-Net |
| | | | | sACN |
| | | Universe | → | 000 – 255 |
| | | DMX Address | → | 001 – 512 |
| | Repeat on DMX | Enablement | → | Disabled |
| | | | | Enabled on Primary |
| | | Universe | → | 001 – 512 |

| Main Menu | Level 1 | Level 2 | Level 3 | Choices / Values |
|---|---|---|---|---|
| | Ethernet setup | Ethernet Interface | → | Disabled<br>Art-Net 2.x.x.x<br>Art-Net 10.x.x.x<br>Custom IP<br>DHCP |
| | | Control Protocol | → | Art-Net |
| | | | | sACN |
| | | Custom IP Address | IP address byte 1<br>IP address byte 2<br>IP address byte 3<br>IP address byte 4 | 0 - 255<br>0 - 255<br>0 - 255<br>0 - 255 |
| | | Custom IP Mask | IP mask byte 1<br>IP mask byte 2<br>IP mask byte 3<br>IP mask byte 4 | 0 - 255<br>0 - 255<br>0 - 255<br>0 - 255 |
| | Fixture ID | → | → | 0 - 255 |

# OPTION

| Main Menu | Level 1 | Level 2 | Level 3 | Choices / *Values* |
|---|---|---|---|---|
| OPTION | Pan | Invert Pan | → | On / Off |
| | | Encoder Pan | → | On / Off |
| | | Pan Enable | → | Disable/Enable |
| | | Reset Pos | → | 0° / 90° |
| | Tilt | Invert Tilt | → | On / Off |
| | | Encoder Tilt | → | On / Off |
| | Reverse mapping | → | → | On / Off |
| | Dimmer Curve | → | → | Curve 1<br>Curve 2<br>Curve 3<br>Curve 4<br>Curve 5 |
| | RGB Gamma | → | → | Gamma 1.0<br>Gamma 1.5<br>Gamma 2.0 |
| | Fan Mode | → | → | Auto<br>Theatre<br>Constant<br>Silent |
| | Led frequency | → | → | 36.50 - 7350 kHz<br>18.20 - 36.50 kHz<br>9.19 - 18.20 kHz<br>4.55 - 9.19 kHz<br>2.27-4.55 kHz<br>1.14 – 2.27 kHz |
| | Display | → | → | On / Off |
| | Setting | Default Preset | → | Reset To Default |
| | | | | Go Back |
| | | User Preset 1 | → | Load preset 1 |
| | | | | Save to preset 1 |
| | | User Preset 2 | → | Load preset 2 |
| | | | | Save to preset 2 |
| | | User Preset 3 | → | Load preset 3 |
| | | | | Save to preset 3 |

# INFORMATION

| Main Menu | Level 1 | Level 2 | Level 3 | Choices / *Values* |
|---|---|---|---|---|
| INFORMATION | Fixture Hours | Total Hours | → | Read only |
| | | Partial Hours | → | Reset / Go Back |
| | LED Hours | Total Hours | → | Read only |
| | | Partial Hours | → | Reset / Go Back |
| | FW Version | → | → | Appl.CPUFw.rev.<br>Boot.CPUFw.rev.<br>Boot.DRV1Fw.rev.<br>Boot. DRV2Fw.rev.<br>Boot. DRV3Fw.rev.<br>Appl. DRV1Fw.rev.<br>Appl. DRV2Fw.rev.<br>Appl. DRV3Fw.rev. |
| | HW Version | → | → | CPUHw.rev.<br>DRV1Hw.rev.<br>DRV2Hw.rev.<br>DRV3Hw.rev. |
| | NTC Temperature | → | → | CPU<br>Strobe 1<br>Strobe 2<br>Led<br>Strobe 3<br>Strobe 4 |
| | DMX Monitor | Basic Monitor | → | *Value 0-255 bit* |
| | | Pixel Monitor | → | *Value 0-255 bit* |
| | Fans Monitor | → | → | PwrSp<br>PwrSp<br>Head<br>Led Board |
| | System Errors | → | → | Read / Reset |
| | Network parameters | → | → | IP Address<br>IP Mask<br>MAC Address |
| | Serial Number | → | → | Serial Number |
| | RDM Device UID | → | → | UID: xxxxxxxxxxxx |

## MANUAL CONTROL

| Main Menu | Level 1 | Level 2 | Level 3 | Choices / *Values* |
|---|---|---|---|---|
| MANUAL CONTROL | Reset | → | → | No / Yes |
| | Channel | → | → | 0-255 bit |

## ADVANCED

| Main Menu | Level 1 | Level 2 | Level 3 | Choices / *Values* |
|---|---|---|---|---|
| ADVANCED | Access Code 1234 | Upload Firmware | → | Yes / No |
| | | Setup model | → | Yes / No |
| | | Log list | → | To be defined |
| | | Calibration | TILT | 0 – 255 Bit |
| | | | PAN | 0 – 255 Bit |
| | | | ZOOM | 0 – 255 Bit |
| | | Custom LED Calibration | LED Selection 1 - 4 | Red → 0 – 255 Bit |
| | | | | Green → 0 – 255 Bit |
| | | | | Blue → 0 – 255 Bit |
| | | | | White → 0 – 255 Bit |
| | | | Reset to default | Yes / No |
| | | Choose led cal. | → | Factory Cal.<br>Custom Cal.<br>Full cal. |

## *SET UP MENU*

### *Setup – Basic Engine*

**MODE**

It lets you select the projector operating mode for BASIC ENGINE, selecting one of the three available modes:

- **Standard** (see channel mapping)
- **Shape** (see channel mapping)
- **Advanced** (see channel mapping)

**SOURCE**

It lets you select the control protocol source dedicated to BASIC ENGINE mode. One of the three available protocols can be selected:

- **DMX**
- **Art-net**
- **sACN**

**UNIVERSE**

It lets you set “DMX Universe” for the BASIC ENGINE mode. Values between 000 and 255.
**NOTE**: This option is valid only with Art-Net and sACN protocols.
In case of sACN the universe set here also set the multicast group IP on which the fixture will listen for data

**DMX ADDRESS**

It lets you set the DMX address for BASIC ENGINE.
NOTE: In case of DMX input signal missing the displayed DMX address blinks.

### *Setup – Pixel Engine*

**MODE**

It lets you select the operating mode for the PIXELS ENGINE, three available modes:

- **Disabled**
- **RGBW** (see channel mapping in Channel Function)

**SOURCE**

It lets you select the control protocol source dedicated to PIXELS ENGINE. One of the three available protocols can be selected:

- **DMX**
- **Art-net**
- **sACN**

**UNIVERSE**

It lets you set “DMX Universe” for the PIXEL ENGINE mode. Values between 000 and 255.
**NOTE**: This option is valid only with Art-Net and sACN protocols.
In case of sACN the universe set here also set the multicast group IP on which the fixture will listen for data

**DMX ADDRESS**

It lets you set the DMX address for PIXEL ENGINE.

## *SET UP MENU*

### *Setup – Strobe Engine*

**MODE**

It lets you select the operating mode for the STROBE ENGINE, three available modes:

- **Disabled**
- **Strobe** (see channel mapping in Channel Function)

**SOURCE**

It lets you select the control protocol source dedicated to PIXELS ENGINE. One of the three available protocols can be selected:

- **DMX**
- **Art-net**
- **sACN**

**UNIVERSE**

It lets you set “DMX Universe” for the STROBE ENGINE mode. Values between 000 and 255.
**NOTE**: This option is valid only with Art-Net and sACN protocols.
In case of sACN the universe set here also set the multicast group IP on which the fixture will listen for data

**DMX ADDRESS**

It lets you set the DMX address for STROBE ENGINE.

### *Setup – Repeat on DMX*

**ENABLEMENT**

It lets you enable/disable the transmission of the Ethernet protocol by DMX signal to all the connected fixtures:

- **Disabled**: DMX transmission disabled.
- **Enabled on primary**: DMX transmission enabled.

**UNIVERSE**

It lets you set the DMX Universe to a series of projectors. In this case it refers to an Art-net input not read by the fixture and re-transmitted to other units.

## *SET UP MENU*

### *Setup - ETHERNET SETUP*

It lets you set Ethernet settings:

**ETHERNET INTERFACE**

It lets you select the IP type to be assigned according to the control unit used; the options available are the following:

- **Disabled**
- **Art-Net on IP 2**
- **Art-Net on IP 10**
- **Custom IP**
- **DHCP** (IP addresses assigned by DHCP server)

**NOTE**: If the **Ethernet Interface** option is enabled (**IP2**, **IP10** or **IP Custom**) and the new IP set is different from the previous one, the projector must be restarted so that it will be correctly initialized.

**CONTROL PROTOCOL**

It lets you select the control protocol that the fixture will use to receive dmx data over ethernet interface; the options available are the following:

- **Art-net**
- **sACN**

If the **Ethernet Interface** option is enabled (**IP2**, **IP10** or **DHCP**) and the control protocol is switched (eg. From Art-net to sACN), the projector must be restarted so that it will be correctly initialized.

**CUSTOM IP ADDRESS**

It lets you to set a custom IP Address according to the control unit used.

**CUSTOM IP MASK**

It lets you to set a custom IP Mask according to the control unit used.

### *Setup – FIXTURE ID*

It lets you set the “Fixture ID” to be assigned to the fixture. An “ID” between 000 and 255 can be assigned

## *OPTION MENU*

### *Option - PAN*

**INVERT PAN**
It lets you to enable (ON) the Pan reverse movement. Select OFF to turn off or disable this option.

**PAN ENABLE**
It lets you disable/enable the Pan motor. When disabled, to enable the pan motor you must change this option and restart the fixture.

### *Option - TILT*

**INVERT TILT**
It lets you to enable (ON) the Tilt reverse movement. Select OFF to turn off or disable this option.

**ENCODER TILT**
It lets you to enable (ON) the tilt repositioning. Select OFF to turn off or disable this option.

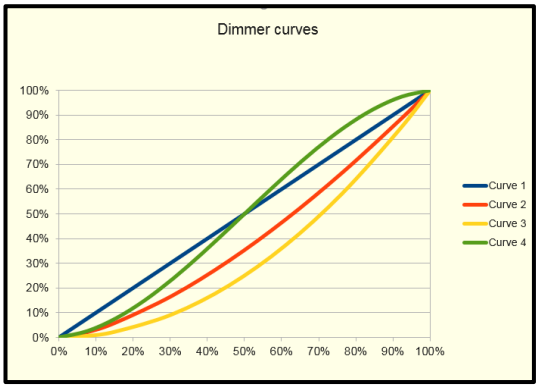
### *Option – REVERSE MAPPING*

It allows you to enable (ON) or disable (OFF) the reverse mapping of the LEDs.

### *Option – DIMMER CURVE*

It let you select four different Dimmer curves (see details below):

- **Curve 1**
- **Curve 2**
- **Curve 3**
- **Curve 4**




### *Option – FAN MODE*

It let you select the fixture cooling mode, the options available are the following:

- **Auto** Light output always at 100%. Fans run at lowest speed possible and increased according to the internal fixture temperatures.
- **Theatre** Light output at 82%. Fan always at minimum speed.
- **Constant** Light output at 100%. Fan always at maximum speed.
- **Silent** Fan always at minimum speed. Light output at highest power possible and decrease according to the internal fixture temperatures.

## *OPTION MENU*

### *Option – LED FREQUENCY*

It let you select the base frequencies of LEDs, the available settings are:

- 55000 Hz
- 27000 Hz
- 13800 Hz
- 6900 Hz
- 3400 Hz
- 1700 Hz

### *Option – DISPLAY*

Turning function “On” turns off display backlight after 30 seconds of disuse. Press any key to turn back on. Select “Off” to disable this option.

### *Option - SETTINGS*

It let you to save 3 different settings of option menu and relevant submenus.

- Default preset (*)
- User preset 1
- User preset 2
- User Preset 3

**Load preset 'X’** is used to recall a previously stored configuration.
**Save to preset ‘X’** is used to save the current configuration.

(*) DEFAULT PRESET
It lets you restore default values on all the option menu items and relevant submenus.
Reset to default → Confirm with YES to restore all the default option.

## *NFORMATION MENU*

### *Information - FIXTURE HOURS*

It lets you view the fixture working hours (total and partial).
**Total counter**
It counts the number of projectors working life hours (from construction to date).
**Partial counter**
It counts the number of projector partial working life hours from the last reset to date.

Press OK to reset the partial counter. A confirmation message appears on the display (Are you sure?). Select YES to confirm reset.

### *Information - LED HOURS*

Let you view total LED working hours (total and partial)

- **Total**: Total LED working hours from construction to date.
- **Partial**: LED working hours from last reset to date.

Press OK to reset the partial counter. A confirmation message appears on the display (Are you sure?). Select YES to confirm reset.

### *Information - SYSTEM VERSION*

It lets you view the firmware application and boot versions for each electronic board installed into the fixture:

- Volero fw X.X.XXX
- Boot CPU fw X.X.XX
- Boot DRV1 fw X.X
- Boot DRV2 fw X.X
- Boot DRV3 fw X.X
- DRV1 fw X.X
- DRV2 fw X.X
- DRV3 fw X.X
- CPU SN XXXXX

### *Information - HW VERSION*

It lets you view the hardware versions for each electronic board installed into the fixture:

- CPU hw ver: xxx.xxx
- DRV1 hw ver: xxx.xxx
- DRV2 hw ver: xxx.xxx
- DRV3 hw ver: xxx.xxx

### *Information - NTC TEMPERATURE*

It let you view the Ntc sensors temperature (real-time) of the fixture.

- TEMP1 xx.xx
- TEMP2 xx.xx
- TEMP3 xx.xx
- TEMP4 xx.xx
- TEMP5 xx.xx

## *INFORMATION MENU*

### *Information – DMX MONITOR*

It lets you view the level of DMX parameters (percentage values).

- Basic Monitor → To view the base mode parameters.
- Pixel Monitor → To view the pixel mode parameters.

### *Information – FANS MONITOR*

It lets you view the speed of each fan installed into the fixture:

- FAN1 xxxx Speed (rpm)
- FAN2 xxxx Speed (rpm)
- FAN3 xxxx Speed (rpm)
- FAN4 xxxx Speed (rpm)

### *Information – SYSTEM ERRORS*

It displays the list of errors that occurred when the fixture is working.
To reset the SYSTEM ERRORS list, press OK. A confirmation message appears (Are you sure to clear error list?) Select YES to confirm.

### *Information – NETWORK PARAMS*

It let you view the fixture Network parameters setting:

- **IP address:** Internet Protocol address (two fixture cannot have the same IP address)
- **IP mask:** 255.0.0.0
- **Mac address:** Media Access Control; the fixture's Ethernet Address.

### *Information – SERIAL NUMBER*

It let you view the fixture Serial Number of the fixture.

### *Information – RDM Device UID*

It lets you view the RDM UID (format -> ID: 4350-XXXXXXXX)

## *MANUAL CONTROL MENU*

### *Manual Control - RESET*

It lets you activate the reset of the fixture.

### *Manual Control - CHANNEL*

It lets you control the DMX parameters from the fixture's user menu. For any single parameter can be set the level between 0 and 255 bits.

## *ADVANCED MENU*

To open the "Advanced Menu", enter the code (1234).

### *Advanced – FIRMWARE UPLOAD*

It lets you transfer the firmware from one fixture to all the other connected to the same line. A confirmation message will appear on the display "Are you sure?" Select YES to confirm or NO to abort the operation.
**IMPORTANT**: We recommend to upload the firmware to a maximum 5/6 units per time.

### *Advanced – SETUP MODEL*

It lets you change the fixture model (this operation could be probably necessary following a CPU board replacement). A confirmation message (Are you sure?) appears on the display Select YES to confirm (the list of available and selectable fixtures will pop-up) or NO to abort this operation

### *Advanced – Log list*

TBD

### *Advanced - CALIBRATION*

It lets you from the control panel make a fine electronics adjustment of some effects to get a better consistency within a group of fixtures.

- PAN
- TILT
- ZOOM

**Factory default**
It lets you restore default "Calibration" values (128 bit) on all the effects.

### *Advanced – CUSTOM LED CALIBRATION*

It lets you perform a calibration of each LED from the fixture's control panel.
Select the LED from 1 to 4. Perform the calibration of the four colours:
Red – Blue – Green – White (Values 0-255 Bit)

**Reset to default**
It lets you restore default calibration values (128 Bit) on all the LEDs.

### *Advanced – Chose LED calibration*

It let you select the LED calibration setting, the options available are the following:

- Factory Cal. : It loads the calibration from the factory.
- Custom Cal: : It loads the calibration managed by the users with "Custom LED Calibration" option.
- Full Cal: The LEDs working at full power.