Volero Batten Aqua
User Menu

03/2023

USER MENU GUIDE

IMPORTANT NOTES: All the default setting are highlighted in a grey color.
Factory Reset: Press “Mode” and “Enter” together for one second.
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	→	STD
				Shape
				Advanced
		Source	→	DMX
				Art-Net
				sACN
		Universe	→	000 – 255
		DMX Address	→	001 – 512
	Pixels Engine	Mode	→	Disabled
				RGB
				RGBW
		Source	→	DMX
				Art-Net
				sACN
		Universe	→	000 – 255
		DMX Address	→	001 – 512
	Repeat on DMX	Enablement	→	Disabled
				Enabled on Primary
		Universe	→	001 – 512
	Ethernet setup	Ethernet Interface	→	Disabled Art-Net 2.x.x.x Art-Net 10.x.x.x Custom IP DHCP
		Control Protocol	→	Art-Net
				sACN
		Custom IP Address	IP address byte 1 IP address byte 2 IP address byte 3 IP address byte 4	0 - 255 0 - 255 0 - 255 0 – 255
		Custom IP Mask	IP mask byte 1 IP mask byte 2 IP mask byte 3 IP mask byte 4	0 - 255 0 - 255 0 - 255 0 – 255
	Fixture ID	→	→	0 - 255

OPTION

Main Menu	Level 1	Level 2	Level 3	Choices / *Values*
OPTION	Tilt	Invert Tilt	→	On / Off
		Encoder Tilt	→	On / Off
	Zoom	Total Zoom	→	On / Off
		Zoom Swap	→	On / Off
		Zoom Reposition	→	On / Off
	Reverse mapping	→	→	On / Off
	Dimmer Curve	→	→	Curve 1 Curve 2 Curve 3 Curve 4 Curve 5 Curve 6
	Fan Mode	→	→	Auto Theatre Constant
	Led frequency	→	→	55.0 kHz 27.0 kHz 13.8 kHz 6.9 kHz 3.4 kHz 1.7 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
	System Version	→	→	Appl.CPUFw.rev. Boot.CPUFw.rev. Boot.DRV1Fw.rev. Boot. DRV2Fw.rev. Boot. DRV3Fw.rev. Boot. DRV4Fw.rev. Appl. DRV1Fw.rev. Appl. DRV2Fw.rev. Appl. DRV3Fw.rev. Appl. DRV4Fw.rev.
	HW Version	→	→	CPUHw.rev. DRV1Hw.rev. DRV2Hw.rev. DRV3Hw.rev. DRV4Hw.rev.
	Ntc Temperature	→	→	Temp Ntc 1 Temp Ntc 2 Temp Ntc 3 Temp Ntc 4 Temp Ntc 5 Temp Ntc 6
	DMX Monitor	Basic Monitor	→	*Value 0-255 bit*
		Pixel Monitor	→	*Value 0-255 bit*
	Fans Monitor	→	→	Fans speed (rpm)
	System Errors	→	→	Read / Reset
	Network parameters	→	→	IP Address IP Mask 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
		Calibration	Zoom1	0 – 255 Bit
			Zoom2	0 – 255 Bit
			Tilt	0 – 255 Bit
		LED Calibration	LED Selection 1 - 10	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. Custom Cal. 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**
- **RGB** (see channel mapping in Channel Function)
- **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 – 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.

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 - 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 - ZOOM

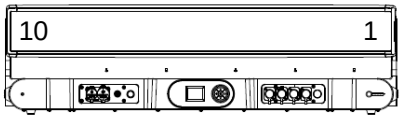
TOTAL ZOOM
It lets you to enable (ON) the control of the two zoom sections (Zoom 1 and Zoom 2). Select OFF disable this option and control the zoom with a single channel.

ZOOM SWAP
It lets you to enable (ON) the swap of the two zoom sections. Select OFF disable this option.

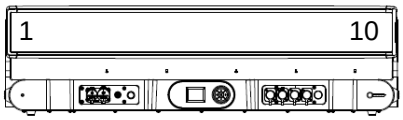
Option – REVERSE MAPPING

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

Reverse Mapping OFF



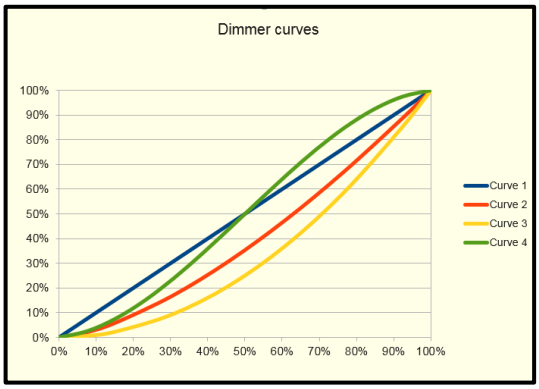
Reverse Mapping ON



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** TBD Light output always at 100%. Fans run at lowest speed possible and increased according to the internal fixture temperatures.
- **Theatre** TBD.
- **Constant** TBD Light output at 100%. Fan always at maximum speed.

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
- Boot DRV4 fw X.X
- DRV1 fw X.X
- DRV2 fw X.X
- DRV3 fw X.X
- DRV4 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
- DRV4 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
- TEMP6 xx.xx

INFORMATION MENU

Information – DMX MONITOR

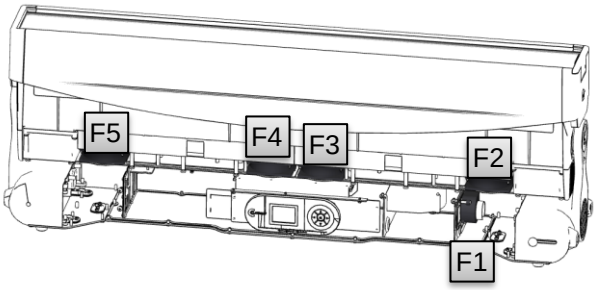
It lets you view the level of DMX parameters (percentage values).

- 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)
- FAN5 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 - 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.

- ZOOM1
- ZOOM2
- TILT

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