

USER MENU GUIDE

Note: All the default parameters are highlighted in grey color.

SETUP MENU

Main Menu	Level 1	Level 2	Level 3	Choices / Values
SET UP	Basic Engine	Mode	→	Standard Easy White
		Source	→	DMX Art-net sACN
		Universe	→	0 - 255
		DMX Address	→	1 - 512
	Pixels Engine	Mode	→	Disabled RGB RGBA RGBL RGBAL
		Source	→	DMX Art-net sACN
		Universe	→	0 - 255
		DMX Address	→	1 - 512
	RGB/CMY Mode Enable			On / Off
	Repeat on DMX	Enablement	→	Disabled Enabled on primary
		Universe	→	0 - 255
	Ethernet Interface	Ethernet Mode	→	Disabled Enabled on IP 2.x.x.x Enabled on IP 10.x.x.x Enabled on Custom IP
		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
	Master RDM	→	→	Disabled Enabled

OPTION MENU

Main Menu	Level 1	Level 2	Level 3	Choices / Values
OPTION	Pan / Tilt	Invert Pan	→	On / Off
		Invert Tilt	→	On / Off
		Swap Pan-Tilt	→	On / Off
		Speed Pan-Tilt	→	Normal Fast
		Abs. Enc Pan/Tilt	Abs. Enc Status	Status
			Abs. Enc Reset	Are you sure ? Yes / No
			Abs. Enc Homing	On / Off
		P/T Homing mode	→	Standard Sequenced
		Pan Home Def Pos	→	0 degree 90 degrees 180 degrees 270 degrees
		Tilt Home Def Pos	→	0 % 12.5 % 25 % 50 % 75 % 87.5 % 100 %
		P/T Enable	→	On / Off
	Dimmer Curve	→	→	Standard Linear Square Dim.Match
	Chg RotGobo Speed	→	→	Normal Fast
	Display	→	→	On / Off
	Theatrical Mode	→	→	On / Off
	Blades Mode	→	→	Standard Extended
	White	→	→	RAW 3200 K 4000 K 4400 K 5000 K 5600 K 6000 K 6500 K 7000 K 7500 K 8000 K
	White curve	→	→	DayLight O.P.White
	RGB Gamma	→	→	Gamma 1.0 Gamma 1.5 Gamma 2.0
	RGB/CMY Color Ctrl	→	→	RGB CMY
	RGB ColorSpace	→	→	Native sRGB REC2020 ProPhoto DCIP3

OPTION MENU

Main Menu	Level 1	Level 2	Level 3	Choices / Values
OPTION	Halogen Mode	→	→	Halogen OFF Halogen Lamp1 Halogen Lamp2 Halogen Lamp3 Halogen Lamp4 Halogen Lamp5
	PWM Frequency	→	→	650 Hz 975 Hz 1460 Hz 2200 Hz 3300 Hz 5000 Hz 7400 Hz 11100 Hz 16700 Hz
	W-DMX	Enable	→	On / Off
		Status	→	Status / Unlink
	Setting	Reset Dig.Filters	Reset Filters Go Back	Are you sure ? Yes / No
		Default Preset	Reset To Default Go Back	Are you sure ? Yes / No
		User Preset 1	Load preset 1 Save to preset 1	Are you sure ? Yes / No
		User Preset 2	Load preset 2 Save to preset 2	Are you sure ? Yes / No
		User Preset 3	Load preset 3 Save to preset 3	Are you sure ? Yes / No

INFORMATION MENU

Main Menu	Level 1	Level 2	Level 3	Choices / Values
INFORMATION	System Errors	→	→	Read / Reset
	Fixture Hours	Total Hours	→	Read
		Partial Hours	→	Read / Reset
	Led Hours	Total Hours	→	Read
		Partial Hours	→	Read / Reset
	System Version	CPU brd	→	Fw.rev. / Hw.rev.
		com.dev	→	Fw.rev.
		Led Drv	→	Fw.rev. / Hw.rev.
		0: NPE P-T	→	Fw.rev. / Hw.rev.
		1: NPE-8C	→	Fw.rev. / Hw.rev.
		2: NPE-5C	→	Fw.rev. / Hw.rev.
		3: NPE-5C	→	Fw.rev. / Hw.rev.
		4: NPE-8C	→	Fw.rev. / Hw.rev.
	Pan Tilt Ranges	→	→	Pan xxx deg Tilt xxx deg
	Board Diagnostic	→	→	0:NPE-P Status Err%
				1:NPE-8C Status Err%
				2:NPE-5C Status Err%
				3:NPE-5C Status Err%
				4:NPE-8C Status Err%
	DMX Monitor	→	→	Channel xx Value Perc%
	Fans Monitor	→	→	LedIn Speed (RPM)
				LedIn Speed (RPM)
				LedOut Speed (RPM)
				LedOut Speed (RPM)
	RDM Unique ID	→	→	ID: xxxxxxxxx
	Sensor status	Channel name	→	n.a / On / Off
	RotGobos Indexing	→	→	Indexing Active Indexing Required
	Network parameters	→	→	IP Address
				IP Mask
				MAC Address
	sACN Information	→	→	Multicast Group IP X.X.X.X
	Serial Number	→	→	XXxxxxxx

MANUAL CONTROL

Main Menu	Level 1	Level 2	Level 3	Choices / Values
MANUAL CONTROL	Reset	→	→	Yes / No
	Channel	→	DMX Parameter	DMX Value: XXX

TEST

Main Menu	Level 1	Level 2	Level 3	Choices / Values
TEST	→	→	→	Pan/Tilt
				Color
				Effects
				Completed

ADVANCED MENU

Main Menu	Level 1	Level 2	Level 3	Choices / Values
ADVANCED	Access Code <u>1234</u>	Upload Firmware	Transfer	Are you sure ? Yes / No
		Setup Model	Changing	Are you sure ? Yes / No
		Calibration	Channels	000 - 255
		RotGobos1 Indexing	Starting procedure	Yes / No
		RotGobos2 Indexing	Starting procedure	Yes / No
		Menu Locking	→	Unlock Code XXXX
		Led Ch. Temp	→	TempRA: ?°C TempGY: ?°C TempB: ?°C

SET UP MENU

For greater programming ease using the DMX control unit and Media-server Art-net, channel mapping is divided into BASIC ENGINE and PIXEL ENGINE (see details in Channel Function).

Setup – Basic Engine - MODE

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

- **Standard** (see channel mapping)
- **Shape** (see channel mapping)
- **Standard + Frequency** (see channel mapping)
- **Shape + Frequency** (see channel mapping)

Setup – Basic Engine - SOURCE

It lets you assign the input source the projector receives signals from dedicated to BASIC ENGINE. One of the two available sources can be selected:

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

Setup – Basic Engine - UNIVERSE

It lets you set “DMX Universe” for BASIC ENGINE mode to assign values between 000 and 255 to a series of projectors (This option is valid only if Source= Art-net or Source= sACN*).

*note that in case of sACN the universe setted here set also the multicast group IP on wich the fixture will listen for data.

Setup – Basic Engine – DMX ADDRESS

It lets you select the address (DMX Address) for the control signal by BASIC ENGINE. A DMX address between 001 and 512 can be selected. NOTE: Without the DMX input signal, the displayed address (DMX Address) blinks.

Setup – Pixel Engine – MODE

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

- **Disabled**
- **RGB** (see channel mapping in Channel Function)
- **RGBA** (see channel mapping in Channel Function)
- **RGBL** (see channel mapping in Channel Function)
- **RGBAL** (see channel mapping in Channel Function)

Setup – Pixel Engine – SOURCE

It lets you assign the input source the projector receives signals from dedicated to PIXELS ENGINE. One of the three available sources can be selected:

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

Setup – Pixel Engine – UNIVERSE

It lets you set “DMX Universe” for PIXELS ENGINE mode to assign values between 000 and 255 to a series of projectors (This option is valid only if Source= Art-net or Source= sACN*).

*note that in case of sACN the universe setted here set also the multicast group IP on wich the fixture will listen for data

Setup – Pixel Engine – DMX ADDRESS

It lets you select the address (DMX Address) for the control signal by PIXELS ENGINE. A DMX address between 001 and 512 can be selected.

SET UP MENU

RGB/CMY Mode Enable

It lets you select the RGB/CMY Mode

- **Off** Colour set by RGBAL Channels
- **On** Colour set by RGB Channels

Setup – Repeat on DMX - ENABLEMENT

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

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

Setup – Repeat on DMX - UNIVERSE

It lets you set the “DMX Universe” to assign values between 000 and 255 to a series of projectors. In this case it refers to an Art-net input not read by the projector and re-transmitted to other projectors.

Setup - ETHERNET INTERFACE

It lets you set Ethernet settings to be assigned to the projector as indicated below:

ETHERNET MODE

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

- **Disabled**
- **Enabled on IP 2**
- **Enabled on IP 10**
- **Enabled Custom IP**

If the **Ethernet Interface** option is set on **Disabled**, when an **IP** address (**IP2**, **IP10** or **IP Custom**) is selected, the projector immediately initializes the **IP** address that was just selected.

If the **Ethernet Interface** option is enabled (**IP2**, **IP10** or **IP Custom**) and a new one is selected that 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 **IP Custom**) 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 the select the “IP Address” Art-net to be assigned, according to the control unit used, with values between 000 and 255.

CUSTOM IP MASK

It lets you to set the select the “IP Mask” Art-net to be assigned, according to the control unit used, with values between 000 and 255.

Setup - FIXTURE ID

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

Setup – MASTER RDM

It lets you enable the “Master RDM” option.

OPTION MENU

Option - PAN / TILT

INVERT PAN

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

INVERT TILT

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

SWAP PAN-TILT

It lets you enable (ON) Pan and Tilt channel inversion (and simultaneously Pan fine and Tilt fine). Select **OFF** to turn off or disable this option.

SPEED PAN-TILT

It lets you set the Pan and Tilt Speed to be assigned:

- **Standard**
- **Fast**

ABS. ENCODER PAN-TILT

It lets you check the status of the absolute encoder zero (programmed or required), reset the stored zero and enable a “fake” standard homing procedure.

P/T HOMING MODE

It lets you set the initial Pan and Tilt Reset mode.

- **Standard**: Pan & Tilt are simultaneously reset.
- **Sequenced**: Tilt is reset first followed by Pan.

PAN HOME DEF POS

It lets you assign the Pan channel “home” position at the end of Reset (without a DMX input signal), selecting one from the 4 available positions:

- **0 degree**
- **90 degrees**
- **180 degrees**
- **270 degrees**

TILT HOME DEF POS

It lets you assign the Tilt channel “home” position at the end of Reset (without a DMX input signal), selecting one from the 7 available positions:

- **0%**
- **12.5%**
- **25%**
- **50%**
- **75%**
- **87.5%**
- **100%**

PAN / TILT ENABLE

Allows you to disable Pan and Tilt movement (Select **OFF**) to use the fixture as a follow-spot. Select **ON** to disable this option.

Option – DIMMER CURVE

It allows you to select the available Dimmer curves:

- **Standard**
- **Linear**
- **Square**
- **Dim.Match**

OPTION MENU

Option – CHANGE ROTATING GOBO SPEED

It lets you select the speed of the Rotating Gobo Change from the two available:

- **Normal**
- **Fast**

Option - DISPLAY

It lets you activate (ON) display brightness reduction after about 30 seconds in idle status. Select OFF to turn off or disable this option.

Option – THEATRICAL MODE

It lets you activate (ON) optimized Zoom and Focus movement, to enhance higher noiselessness and stability. Select OFF to turn off or disable this option, ensuring faster Zoom and Focus movements.

Option – BLADES MODE

It lets you set the Framing blades function mode:

- **Standard:** The framing blades run the 50% of the range.
- **Extended:** The framing blades run the 100% of the range.

Option - WHITE

It lets you select the a calibrated white colour value for the projection:

- **RAW**
- **3300 K**
- **4000 K**
- **4400 K**
- **5000 K**
- **5600 K**
- **6000 K**
- **6500 K**
- **7000 K**
- **7500 K**
- **8000 K**

Note: By selecting RAW option, no chromaticity control over output is performed: it's effectively pure RAW.

Option – White Curve

It lets you set the White Curve mode:

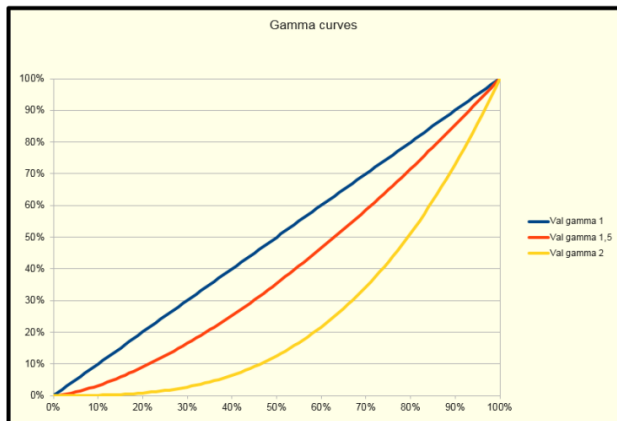
- **Daylight:** Standard curve
- **O.P.White:** Balance white on planckian curve

OPTION MENU

Option – RGB GAMMA

Lets you select three different RGBW gamma curves (see details below):

- **Gamma 1.0**
- **Gamma 1.5**
- **Gamma 2.0**



Option –RGB/CMY Color Ctrl

It lets you set the color control mixing in RGB mode:

- **RGB**
- **CMY**

Option – RGB Color Space

It lets you select the RGB colour space desired:

- **Native**
- **sRGB**
- **REC2020**
- **ProPhoto**
- **DCIP3**

Option – HALOGEN MODE

It lets you select the halogen behaviour desired:

- **Halogen OFF**
- **Halogen Lamp1**
- **Halogen Lamp2**
- **Halogen Lamp3**
- **Halogen Lamp4**
- **Halogen Lamp5**

OPTION MENU

Option – PWM FREQUENCY

It lets you select ten different base PWM frequencies:

- 650
- 975
- 1460
- 2200
- 3300
- 5000
- 7400
- 11100
- 16700

Option – W-DMX

ENABLE

It lets you enable (ON) Wireless-DMX communication. Select **OFF** to turn off and communicate through the wired DMX.

STATUS

It lets you view Wireless-DMX communication status ("UNLINKED", "LINKED NO DMX", "LINKED WITH DMX", "LINK LOST OR LINKING").

Press UNLINK to disconnect unit from W-DMX transmitter. A confirmation message appears on the display (Are you sure ?)

Select YES to confirm the unlink.

Option - SETTINGS

Used to reset Digital Filters set by Claudio

- Reset Digital Filters

Used to save 3 different settings of the items in the 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 option menu items and relevant submenus.

Press the left and right arrows/keys simultaneously in the "main menu" to quickly restore default values (DEFAULT PRESET).

INFORMATION MENU

Information - SYSTEM ERRORS

It displays a list of errors that occurred when the projector was turned on.
To reset the SYSTEM ERRORS list, press OK. A confirmation message appears (Are you sure you want to clear error list?). Select YES to confirm reset.

Information - FIXTURE HOURS

It lets you view projector working hours (total and partial).

Total counter

It counts the number of projector 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

It lets you view Led working hours (total and partial).

Total counter

It counts the number of projector working hours with the Led on (from construction to date).

Partial counter

It counts the number of Led partial working 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 - SYSTEM VERSION

It lets you view the hardware and software versions for each electronic board in the projector:

- CPU brd (CPU board)
- com.dev
- Led Drv1 (Led driver board)
- Led Drv2 (Led driver board)
- 0: NPE P-T (Pan/Tilt driver board)
- 1: NPE-8C (8 Driver board)
- 2: NPE-5C (5 Driver board)
- 3: NPE-5C (5 Driver board)
- 4: NPE-8C (8 Driver board)

Information – PAN TILT Ranges

It lets you view pan tilt range in degrees

- Pan xxx deg
- Tilt xxx deg

Information - BOARD DIAGNOSTIC

It lets you view the percent errors for each electronic board installed in the projector

- 0: 8-Ch (8-channel board)

Information - DMX MONITOR

It lets you view the level of projector DMX channels in bit (Val) and in percent.

INFORMATION MENU

Information - FANS MONITOR

It lets you view the speed of each fan installed in the projector:

- EffIn (Effects cooling fan, air-flow IN)

Information – RDM UNIQUE ID

Shows the exclusive address of the fixture to use communicate via RDM.

Information - SENSOR STATUS

It lets you check the correct operations of each "sensor" installed in the projector, each channel is associated with one of the following three parameters:

- n.a.= sensor not available (it could be that are not used sensor on that effect)
- ON= Sensor reading (It means the magnet is positioned on the sensor)
- OFF= Sensor is not reading (It means the magnet is not positioned on the sensor)

Information – ROTATING GOBO INDEXING

It lets you check whether the 3 prisms wheel indexing procedure should be run, if indexed, "Indexing Active" appears on the display, otherwise "Indexing required!" appears

If necessary, indexing should be activated from the Advanced menu.

Information – NETWORK PARAMS

Lets you view the projector "Network" parameters meaning:

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

Information – sACN INFORMATION

Shows the IP multicast group assigned to the fixture.

Information – SERIAL NUMBER

Lets you view the fixture **Serial Number**. Information available only for fixtures from January 2020.

MANUAL CONTROL MENU

Manual Control - RESET

It lets you reset the projector from the projector control panel.

Manual Control - CHANNEL

It lets you set the channel DMX levels from the projector control panel (value between 0 and 255 bit or between 0% and 100%).

TEST MENU

It lets you test the correct operations of effects using pre-saved Tests:

- Pan/Tilt
- Colour
- Effects
- Complete

ADVANCED MENU

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

Advanced - UP LOAD FIRMWARE

It lets you transfer "firmware" from one projector to all other connected projectors. A confirmation message appears on the display (Are you sure ?) Select YES to confirm or NO to abort this operation.

Advanced - SETUP MODEL

It lets you change the projector model (operation probably necessary after replacing the CPU during repairs). A confirmation message (Are you sure ?) appears on the display Select YES to confirm (the list of available and selectable projectors appears) or NO to abort this operation.

Advanced - CALIBRATION

It lets you make small mechanical adjustments on some effects to perfectly align projectors from the control panel.

Factory default

It lets you restore default "Calibration" values (128 bit) on all channels.

Advanced – ROTATING GOBO1 INDEXING

It lets you run the rotogobo1 wheel indexing procedure. This operation may be necessary after projector maintenance/cleaning.

Advanced – ROTATING GOBO2 INDEXING

It lets you run the rotogobo2 wheel indexing procedure. This operation may be necessary after projector maintenance/cleaning.

Advanced - MENU LOCKING

It allows you to assign a password to lock the access to the user menu, so that only users know the password can change settings. The password is 4-digit number.

Advanced – LED CH. TEMP

It allows you to monitor the temperature of the Led Module.