

Default parameters highlighted in grey

Main Menu	Level 1	Level 2	Level 3	Choices / Values	
SET UP	DMX Address	→	→	001-512	
	Channel Mode	→	→	Standard	
				Vector	
	Fixture ID	→	→	000-255	
	Ethernet Interface	Control Protocol	→	Disabled	
				Art-net IP 2.x.x.x.	
				Art-net IP 10.x.x.x.	
				Art-net Custom IP	
		Repeat on DMX	→	Disabled	
				Enabled on primary	
		Universe	→	→	000-255
		Custom IP Address		IP address byte 1	000-255
				IP address byte 2	000-255
				IP address byte 3	000-255
	IP address byte 4			000-255	
Custom IP Mask		IP mask byte 1	000-255		
		IP mask byte 2	000-255		
		IP mask byte 3	000-255		
		IP mask byte 4	000-255		

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	
		Encoder Pan-Tilt	→	On / Off	
		P/T Homing mode	→	Standard	
				Sequenced	
				0 degree	
				90 degrees	
		Pan Home Def Pos	→	180 degrees	
				270 degrees	
	0 %				
	12.5 %				
	Tilt Home Def Pos	→	25 %		
			50 %		
			75 %		
			87.5 %		
			100 %		
			P/T Enable	→	On / Off
	Color	Color Mixing	→	RGB / CMY	
		Fix Wheel Shortcut	→	On / Off	
		CMY Shortcut	→	On / Off	
	Dimmer curve	→	→	Conventional	
				Standard	
				Quadratic	
				Linear	
	Silent Mode	→	→	Standard	
				Quiet	
	Chg RotGobo Speed	→	→	Normal	
				Fast	
	Display	→	→	On / Off	
	Animation / Fix Gobos	→	→	Animation Disk	
				Fix Gobo Disk	
Led Power	→	→	500W		
			400W		
			300W		
PWM Frequency	→	→	4700		
			6000		
			7300		
			8600		
			10000		
			12000		
			15000		
			17578		
			20000		
			22000		
Setting	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		

<b>Main Menu</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Choices / Values</b>
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.
		0: P&T	→	Fw.rev. / Hw.rev.
		1: 5 ch	→	Fw.rev. / Hw.rev.
		2: 5 ch	→	Fw.rev. / Hw.rev.
		3: 5 ch	→	Fw.rev. / Hw.rev.
		4: 5 ch	→	Fw.rev. / Hw.rev.
	Board Diagnostic	5: 5 ch	→	Fw.rev. / Hw.rev.
		0: P&T	→	Status / Err%
		1: 5 ch	→	Status / Err%
		2: 5 ch	→	Status / Err%
		3: 5 ch	→	Status / Err%
		4: 5 ch	→	Status / Err%
	DMX Monitor	5: 5 ch	→	Status / Err%
		Channels	→	Value / Percentage
	Fans Monitor	Eff. In	→	Speed (RPM)
		Eff. Out	→	Speed (RPM)
		Blades	→	Speed (RPM)
		Frame	→	Speed (RPM)
		Led In	→	Speed (RPM)
		Led In	→	Speed (RPM)
		Led Out	→	Speed (RPM)
		Led Out	→	Speed (RPM)
	RDM Unique ID	→	→	ID: xxxxxxxxx
Sensor status	Channels	→	n.a / On / Off	
LED fuses status	→	Fuse 1 - 6	OK / ERR	
LED PWM status	→	PWM 1 - 6	OK / ERR	
Rot Gobos Indexing	→	→	Indexing Active Indexing Required	
Network parameters	→	→	IP Address	
			IP Mask	
			MAC Address	

Main Menu	Level 1	Level 2	Level 3	Choices / Values
MANUAL CONTROL	Reset	→	→	Yes / No
	Channel	→	→	Value / Percentage
TEST	→	→	→	Pan / Tilt
	→	→	→	Colors
	→	→	→	Complete
ADVANCED	Access Code <u>1234</u>	Upload Firmware	<i>Transfer .....</i>	<i>Are you sure ?</i> Yes / No
		Setup Model	<i>Changing .....</i>	<i>Are you sure ?</i> Yes / No
		Calibration	Channels	000 - 255
		Rot. Gobo Indexing	<i>Starting procedure .....</i>	Yes / No
		Menu Locking	→	Unlock Code <b>0000</b>

## SET UP MENU

### Setup - DMX ADDRESS

**PLEASE NOTE: Without the DMX input signal, the displayed address (DMX Address) blinks.**

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

### Setup – DMX CHANNEL MODE

This lets you select the projector operating mode, selecting one of the four available modes (see DMX Channel Function):

- **Standard** (see DMX channel mapping)
- **Vector** (see DMX channel mapping)

### 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 - ETHERNET INTERFACE

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

#### CONTROL PROTOCOL

It lets you select the “Control Protocol” Art-net 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
- Art-net Custom IP

If the **Control Protocol** 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 **Control Protocol** 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.

#### REPEAT ON DMX

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.

#### UNIVERSE

It lets you set the “DMX Universe” to be assigned to a series of projectors with values between 000 and 255.

#### 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.

## 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.

#### ENCODER PAN-TILT

It lets you enable (ON) or disable (OFF) Pan and Tilt Encoder operations.

**You can quickly disable the Pan and Tilt Encoder by simultaneously pressing the UP (↑) and DOWN(↓) keys in the "Main Menu".**

#### 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 MENU

### Option - COLOR

#### COLOR MIXING

It lets you set the CMY color mixing system:

- **RGB** color mixing mode (Red Green Blue)
- **CMY** color mixing mode (Cyan Magenta Yellow)

#### FIXED WHEEL SHORT-CUT

Used for optimizing color change time (select **ON**) so that the disc turns in the direction that requires shorter movement. Select OFF to turn off or disable this option.

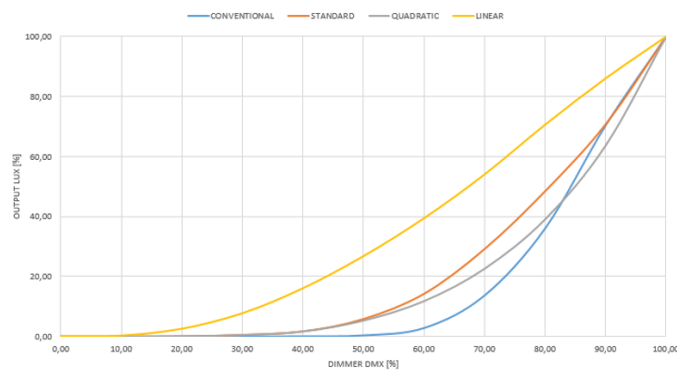
#### CMY SHORTCUT

Used for optimizing CMY change time (select **ON**) so that the disc turns in the direction that requires shorter movement. Select OFF to turn off or disable this option.

### Option – DIMMER CURVE

It allows you to select one of the four available Dimmer curves:

- **Conventional**
- **Standard**
- **Quadratic**
- **Linear**



### Option – SILENT MODE

It allows you to select one of the two “Silent Mode” available:

- **Standard**: Cooling is at its maximum and noise too, than the derating occurs late.
- **Quiet**: decreases fan power and consequently noise but derating occurs first.

## OPTION MENU

### 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 – CHANGE ROTATING GOBO SPEED

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

- Normal
- Fast

### Option – ANIMATION DISK / FIX GOBOS

It allows you to select depending on the disc inserted into the fixture, whether to activate the electronic control of **Animation Disk** or **Fix Gobo Disk**.

### Option – LED POWER

It allows you to select one of the two available modes:

- **500W**: LED source at full power.
- 400W: Decreases the working power of the LED source and consequently the noise level.
- 300W: Decreases the working power of the LED source and consequently the noise level.

### Option – PWM FREQUENCY

Lets you select ten different base frequencies of LEDs:

- 4700
- 6000
- 7300
- 8600
- 10000
- 12000
- 15000
- 17578
- 20000
- 22000

### Option - SETTINGS

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)
- Led Drv (Driver Led board)
- 0: P&T (Pan / Tilt board)
- 1: 5-Ch (5-channel board)
- 2: 8-Ch (5-channel board)
- 3: 5-Ch (5-channel board)
- 4: 5-Ch (5-channel board)
- 5: 5-Ch (5-channel board)

## INFORMATION MENU

### Information - BOARD DIAGNOSTIC

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

- 0: P&T (Pan / Tilt board)
- 1: 5-Ch (5-channel board)
- 2: 5-Ch (5-channel board)
- 3: 5-Ch (5-channel board)
- 4: 5-Ch (5-channel board)
- 5: 5-Ch (5-channel board)

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### Information - DMX MONITOR

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

### Information - FANS MONITOR

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

- Effect IN (Effects cooling fan, air-flow IN)
- Effect OUT (Effects cooling fan, air-flow OUT)
- Blades (blades cooling fan)
- Frame (frame cooling fan)
- Led IN (LED cooling fan, air-flow IN)
- Led OUT (LED cooling fan, air-flow OUT)

### 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 – LED FUSES STATUS

It lets you check the status of the Driver led board fuses, so it is possible to understand through the menu if one of the 6 LED board fuses is faulty.

### Information – LED PWM STATUS

It lets you check the status of the PWM outputs of the driver led board, so it is possible to understand through the menu if one of the 6 PWM is not working.

## INFORMATION MENU

### Information – ROTATING GOBO INDEXING

It lets you check whether the rotating gobo wheel 1 gobo 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.

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## 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
- Colors
- 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 – ROT GOBO INDEXING

It lets you run the rotating gobo wheel gobo 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, default 0000.