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XB480

USER MANUAL

XBlack

XB480

SUMMARY

INTRODUCTION
Thank you for selecting the XB480

WARNING !
This product is not suitable for household use.

You now own a professional lighting unit that offers endless possibilities. Before installing, make sure that no damage was done to your luminaire during transport.

For your own safety and that of others, please read this instruction manual carefully before installing the unit.

Anyone involved in installing, operating or servicing the XB480 must:
• Be a qualified, authorized professional
• Strictly follow the instructions in this user manual.

Please take the time to read this manual carefully and thoroughly before installing and operating the XB480 . You should have a good knowledge of its operating conditions and all pertinent product information.

After you have become familiar with this manual, we recommend that you keep a copy for future use. All the information found in this manual is subject to change without notice.

SAFETY INSTRUCTIONS
Please read the safety instructions and warnings in this manual carefully before installing and operating the XB480 .

WARNING!
Risk of electric shock.
Use caution when handling. This fixture requires high voltage, which can result in electric shock.

The XB480 left our factory in perfect working condition. However, if you notice a defect, immediately contact your authorized XB480 dealer before use.
The manufacturer cannot be held responsible for damages caused by a failure to follow the safety, Installation or assembly instructions contained herein, or by any modification made to the fixture .

Failure to observe the safety, installation or assembly instructions contained herein, or any modification made to the XB480W will render the warranty null and void.

Check that the supply voltage does not exceed the maximum authorized limit. Check that your electrical installation complies with current standards.

In all cases, make sure that the power cables attached to your XB480 have not been damaged due to cuts and splices or crushed in any way.
Handle these cables with extreme caution while they are connected to a power source.

Your XB480 conforms to Class 1 safety standards. The unit must be grounded electrically. Make sure that the power source connected to your fixture is switched off before attempting any work on it.

Installation and connection to an electrical source must be performed by an authorized installer. Our factory declines all responsibility should this fixture be installed by an unqualified person.

Never disconnect your fixture by pulling on the power cable! First unlock the connector lock ring on the power cable until it is fully disengaged, and then gently pull on the connector to disconnect the cable.

Do not connect or disconnect the power cable of your XB480 with wet hands.

At first use, your fixture may give off an odor. This is a normal occurrence that should dissipate after a few minutes of operation.

WARNING!
Do not connect or disconnect the power cable at your fixture if the cable is energized! This could cause arcing and damage your fixture, requiring repair.

Be careful to power off your XB480 by removing the power plug from the source, before connecting or disconnecting the XB480 .

Never look directly into the lamps if lit or stand directly in line with the fixture if close by.

Installation, removal or replacement of the unit must be performed with power off to prevent any risk of glare and eye injury.

WARNING!
The fixture quickly becomes very hot during operation.

To avoid risk of burn, never handle or adjust the fixture while it is energized and after it has been lit for more than 10 consecutive minutes. Some parts of the fixture can reach a high temperature, particularly the body/radiator. Turn off the fixture and wait for it to cool before handling.

CONDITIONS OF USE
Your XB480 is a moving-head luminaire equipped with LED source intended for professional use (e.g., architectural, stage, television, theater, or museum lighting).

The XB480 has an IP20 protection rating. It is intended strictly for indoor use. It must never be partially or fully submerged, even temporarily.

Condensation may form on your XB480 in the following cases:
• Immediately after turning on the heating
• In places with fog or a high level of humidity
• When the luminaire is suddenly moved from a cold to a warm environment, or vice versa.

In such cases, you must wait until the luminaire readjusts to the ambient temperature of the room where it will be installed for operation.

Do not shake the XB480 while installing or handling.

Do not pull the fixture by one of its cables to move it. Lift the fixture by its handles.

Choosing the appropriate place to install the XB480 is essential. The following points should be observed:

- Do not expose it to a heat source.
- Do not install it near flammable materials.
- Be sure that dust or miscellaneous debris cannot clump around the body of the luminaire as this may interfere with its optimal cooling and proper operation.
- The XB480 must be installed out of reach of the public and all persons not authorized to operate the luminaire.

We recommend a minimum distance of 5 m between the outside surface of the light and the illuminated object.

Due to the nature of its cooling principle, you should never prevent air from circulating around the body of the fixture. You must provide a minimum clearance around your fixture to allow for cooling.

The fixture can be installed in a ground pit or any other confined enclosure only under certain conditions. With this kind of installation, a system of forced ventilation should be used up to allow air to circulate freely around the fixture. The air must be constantly renewed because the luminaire cannot be operated in closed system. Failure to comply with these requirements may destroy or prematurely wear the fixture, and manufacturer cannot be held responsible. Please consult your fixture dealer for more information on this type of installation.

No load should be placed on the fixture. The fixture must not be installed in such a way as to allow a person, vehicle or any object to run over or park on it.

Never lay or drop any hard, heavy, or blunt, objects on the fixture. This includes items made of glass or porcelain (e.g., bottles, dishware, or glass beads). The fixture is made of materials such as plastic and extruded aluminum, making it resistant but not unbreakable. Objects made of hard materials such as steel or glass that fall on the unit may cause breakage of the plastic parts or the body. Manufacturer cannot be held responsible for the fixture' s broken plastic parts or body, which are not covered under warranty.

The temperature of the room where the fixture is installed must never exceed 45°C (Ta = 45°C).

The fixture requires a 110-240 VAC supply voltage. Check that your fixture have been installed for an application that is compatible with this information.

Check that the brackets on which you hang or attach your fixture can sustain the weight of the XB480 (30kg), taking into consideration all necessary safety factors.

Do not use your XB600 before being familiar with these recommendations and do not allow unqualified personnel to handle the product.

To transport your fixture, we strongly recommend that you use the complete original packaging, including the dense protective foam inserts.

If your XB480 is not being used for a long period, you should disconnect the XB480 from the power source.

Never dispose of the XB480 in a rubbish bin. Ensure that it is recycled.
Please consult the current legislation in your country on recycling electronic equipment.

PRESENTATION AND FEATURES

XB480 is a non-waterproof moving head wash light (IP20 protection rating) using the latest generation of high-performance of LED-type lamps.

This XB480 can be controlled remotely by an external DMX512 signal.

The XB480 incorporates high power white LED source.

The XB480 requires from 34 to 54 DMX channels to be controlled via an external command system that sends a DMX512 signal (see below for details).

To adjust the settings on the fixture (i.e., DMX address, DMX operating mode and other options), a Remote Device Management (RDM)-type DMX controller may be required. The DMX RDM protocol is a universal, widely used standard.

There are a multitude of RDM DMX controllers on the market from different manufacturers . It is worth noting that an RDM DMX controller is not required to change the settings on the fixture . A light console or any standard DMX-type controller is sufficient.

The XB480 consists of a metal frame and plastic covers. The power connectors and DMX512 signal connectors are on the back of the fixture' s base.

TECHNICAL PARAMETER

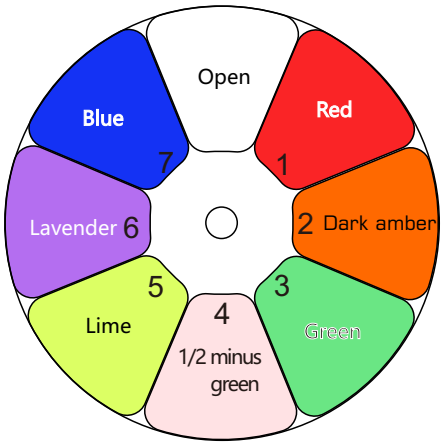
Optics
- Light source: 600W White LED
- CT: 6500K
- Life: 20,000H
- CRI:>74 or >90

Power
- Max power consumption: 850W Pf:>0.98
- Power supply: Electronic auto-ranging
- Input voltage range: 100-240V, 50-60HZ

Connectors
- DMX and RDM data in/out: Locking 3-pin & 5-pinXLR
- ArtNET Port: Rj45

Movement
- Pan movement: 540°/ 630°(16 bit)
- Tilt movement: 270°(16 bit)
- Advanced motion system: auto repositioning, fast, quiet and smooth

Colours
- CMY colour Mixing
- CTO linear
- CT: 2700K-6500K
- Colour wheel: 7 dichroic filters + open



The colour wheel can be seamlessly rotating at different speeds.

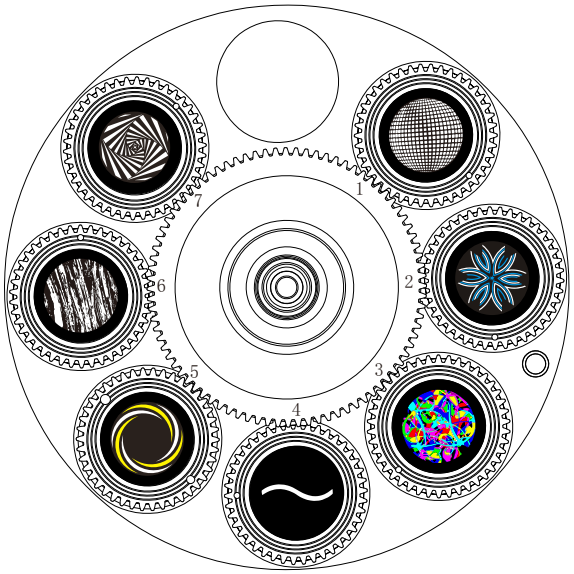
This enables intermediate colour to be realized and rainbow to be achieved

CMY+CTO(2700K-6500K)

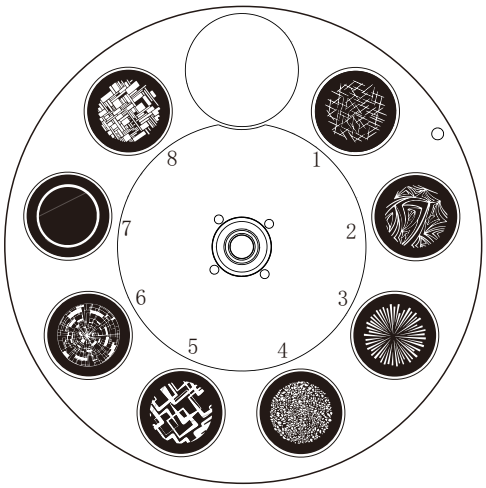
The CMY colour mixing system expands the colour spectrum to an almost unlimited number of colours and enables smooth colour progressions and transitions

Gobos

- 1 Rotating gobo wheel:
- 7 rotatable, positioned, interchangeable gobos plus open
- with gobo shaking effect
- Inside diameter:20mm Outside diameter:25.5mm

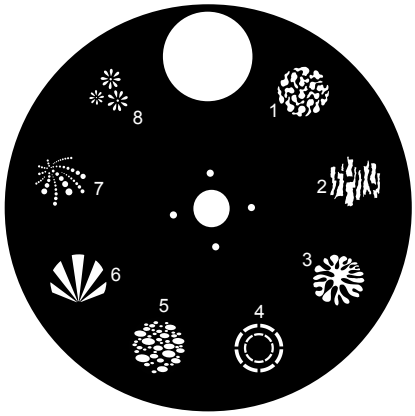


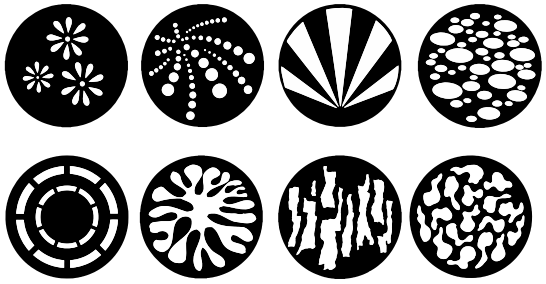
Static gobo wheel: 8 static , interchangeable gobos plus open with gobo shaking effect



Static Gobo wheel 2:

- 8 static , interchangeable gobos plus open with gobo shaking effect





Feature

- Rotating prism: 5-facet prism rotating in both directions at variable speeds
- Focus: motorized focus
- Shutter: electronic , variable from 1-25Hz or random
- Iris: 5-100% electronic Iris
- Dimming: 0-100% linear adjustment
- Frost : heavy frost
- Zoom: 4.5°-55° linear zoom

Framing System

- 4 fast and smooth framing shutters,
- Each shutter blade position and angle can be controlled individually
- Movement is fast & smooth, with adjustable speed
- Framing shutters can be precise motion with smooth movement
- Each shutter blade can block out light completely
- The framing module can be rotated at +/- 45°

Display

- 15 seconds standby auto lock
- Pan/Tilt disengage (hold MENU and ENTER button)

Cooling System

- Advanced liquid cooling system
- Self-adjusting variable speed fans
- Selectable ventilation user modes
- Excess-temperature protection

Work Environment

- Maximum ambient temperature: 40°C
- Maximum surface temperature: 65°C
- Maximum operating temperature: 0°C

Software

- Remote reset DMX address, fixture reset
- Run time of LED engine and fixture
- 2 control channel modes: 34 / 54 channels

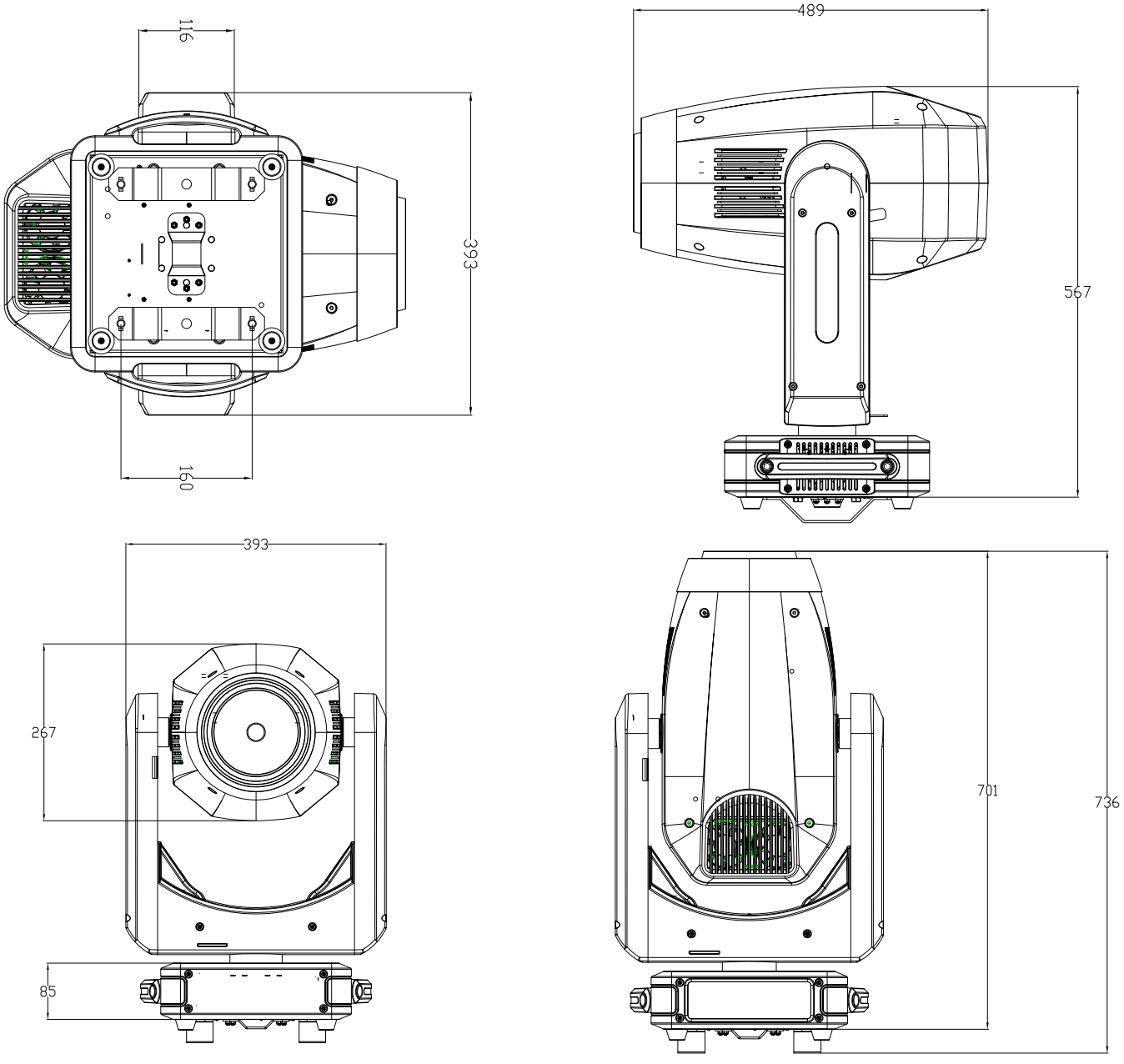
Other specification

- Input signal isolation
- Optional ArtNET control
- RDM compatible

Dimensions and weight

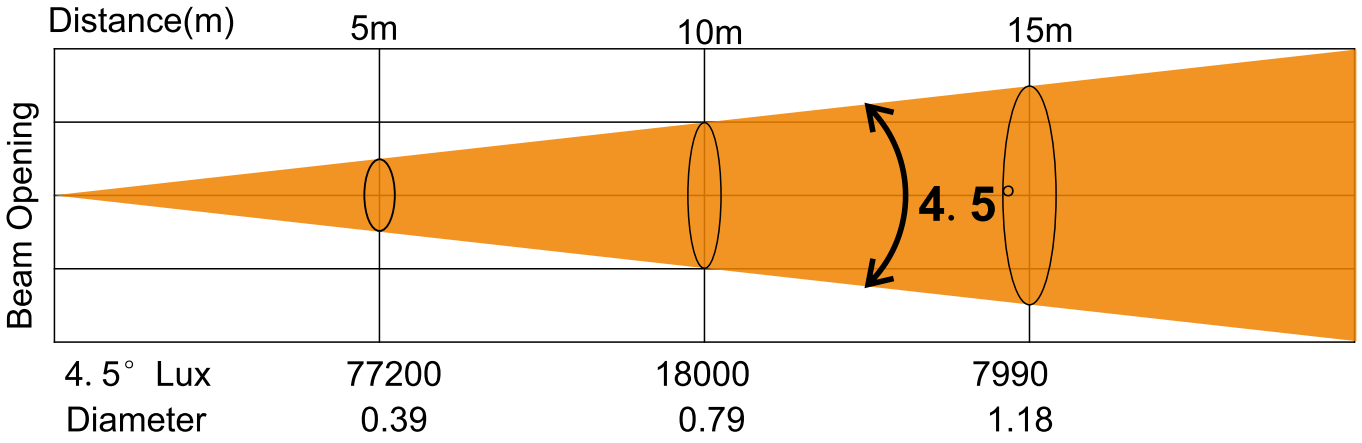
- Net Weight:30kg / 66lbs
- Gross weight: 34kg / 74.8lbs
- Body size: 290X385X720mm / 11.4" x 15.1" x 28.3"
- Packing size: 830 x 450 x 370 / 32.6" x 17.7" x 14.5"

Dimension



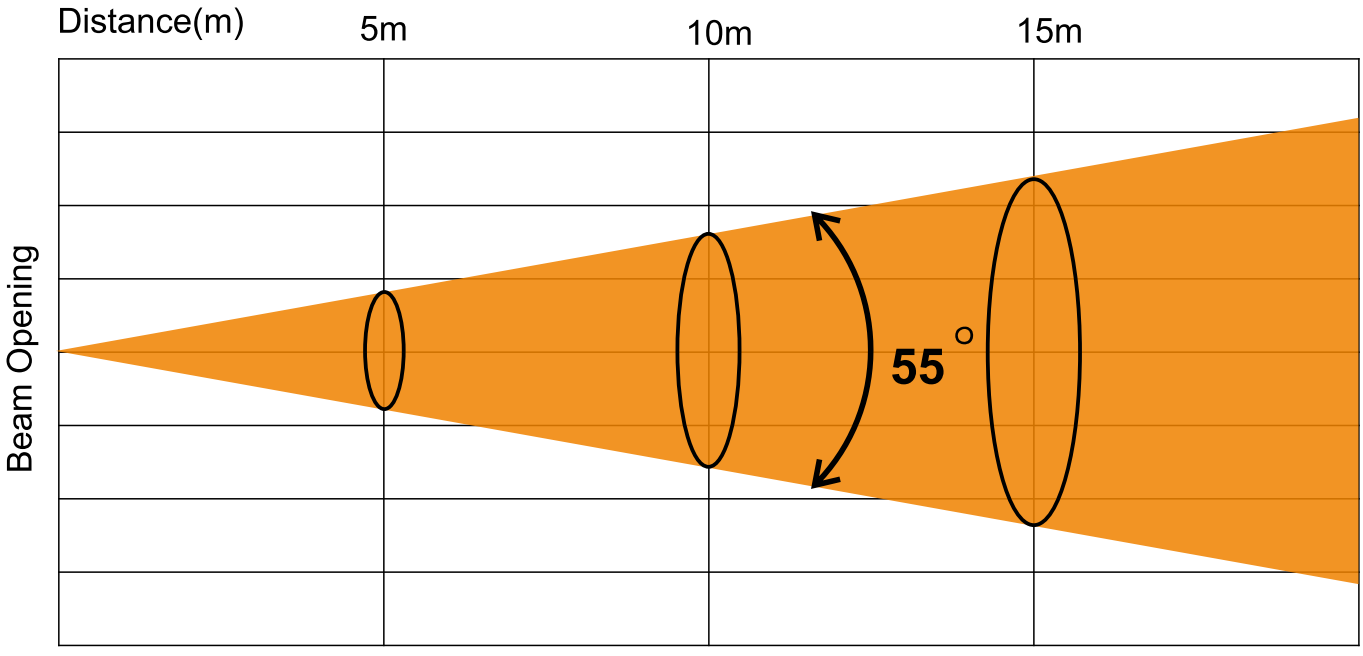
Photometric

Beam Angle



4. 5° Lux	77200	18000	7990
Diameter	0.39	0.79	1.18

Beam Angle



55° Lux	2280	728	397
Diameter	5.21	10.41	15.62

Display: To show the various menus and the selected function.

Button:

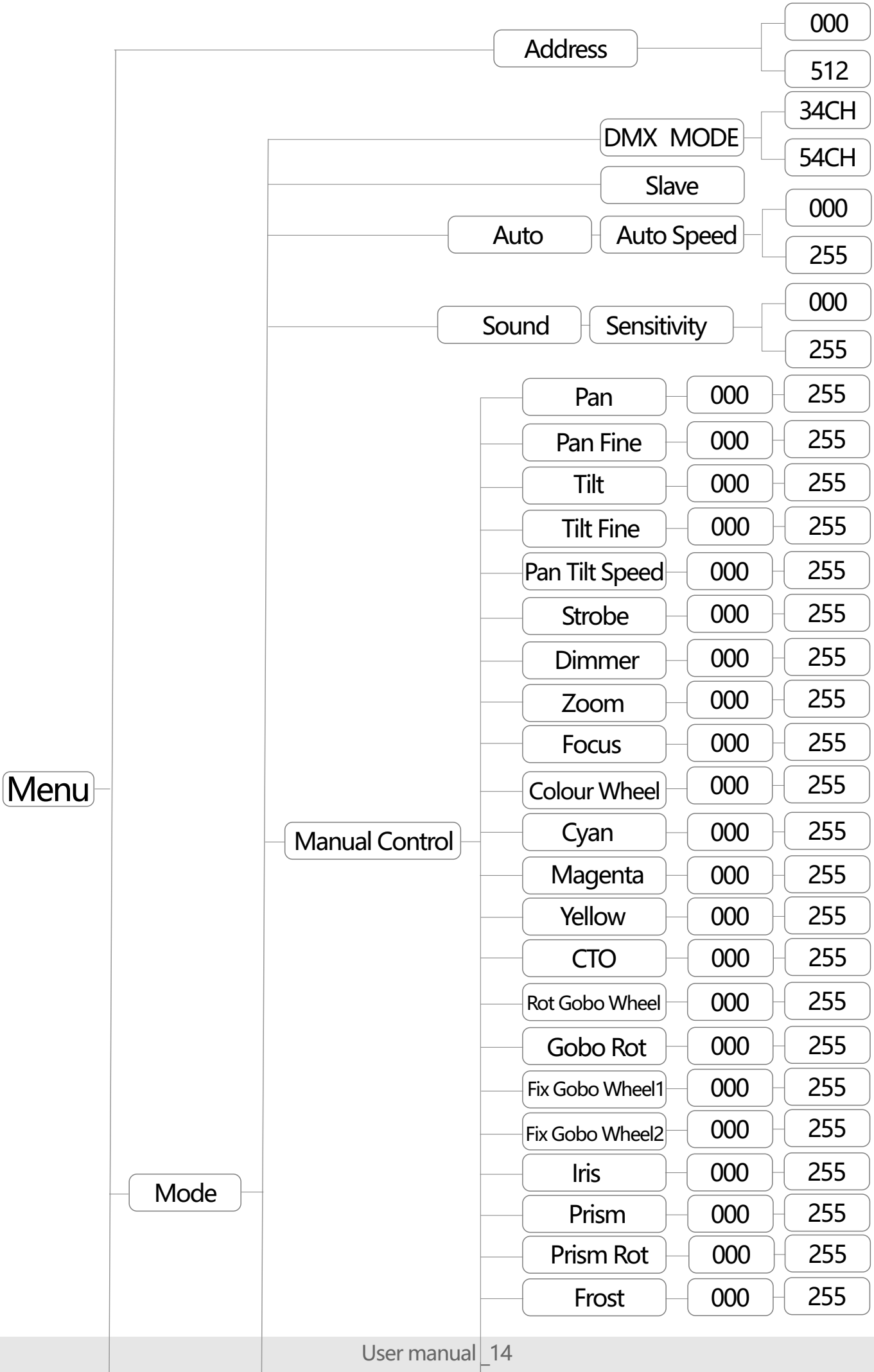
Enter	To perform the desired functions
DOWN	To go to move down in the menu
MENU	To enter into move backward or leave the menu
UP	To go backward or move up in the menu

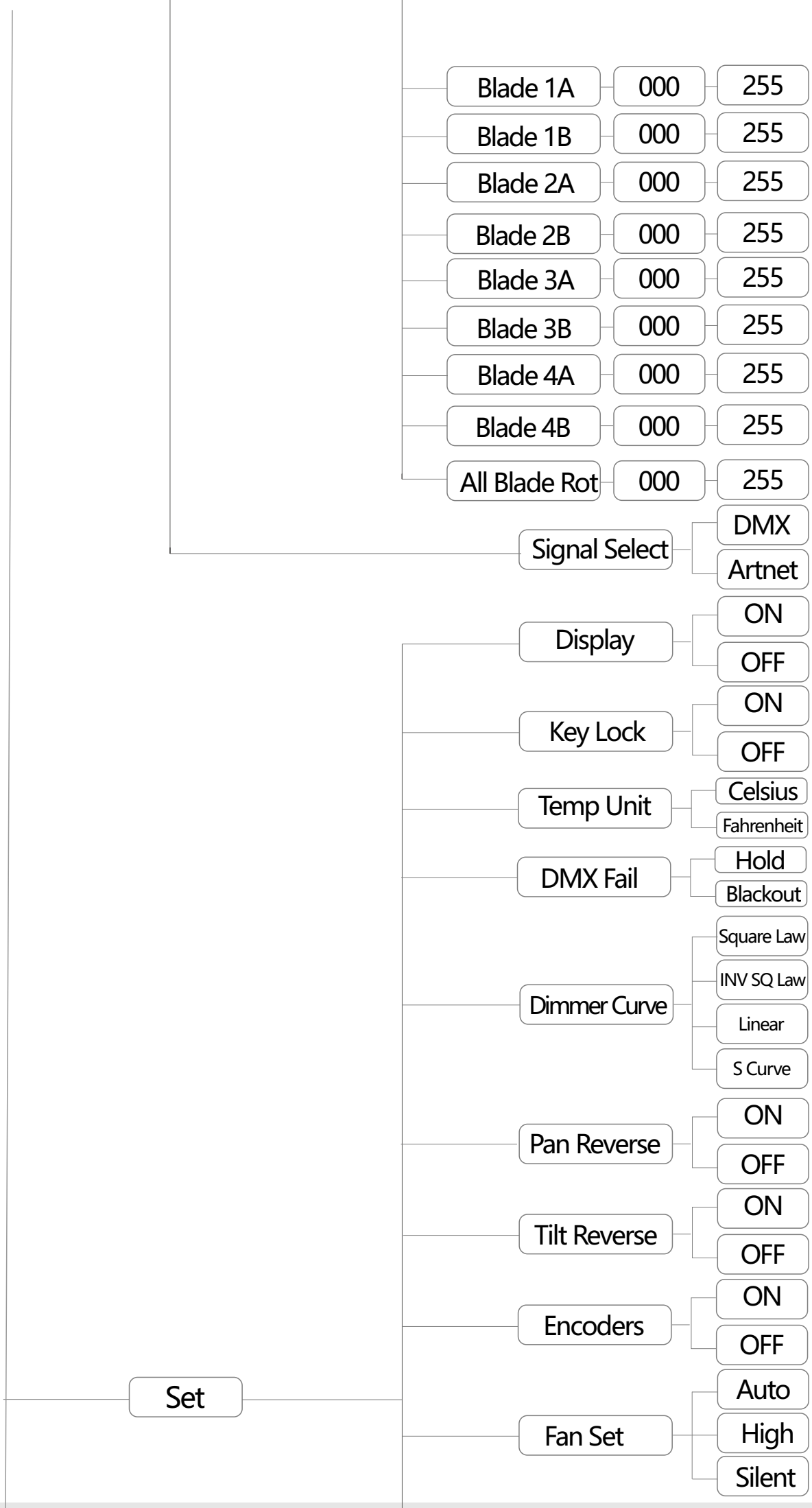
ETHERNET: Transfers fixture' s information to a main controller.
DMX input: For DMX 512 operation, use 3/5-pin XLR plug cable to link the units together
DMX output: For DMX 512 operation, use 3/5-pin XLR plug cable to link the units together

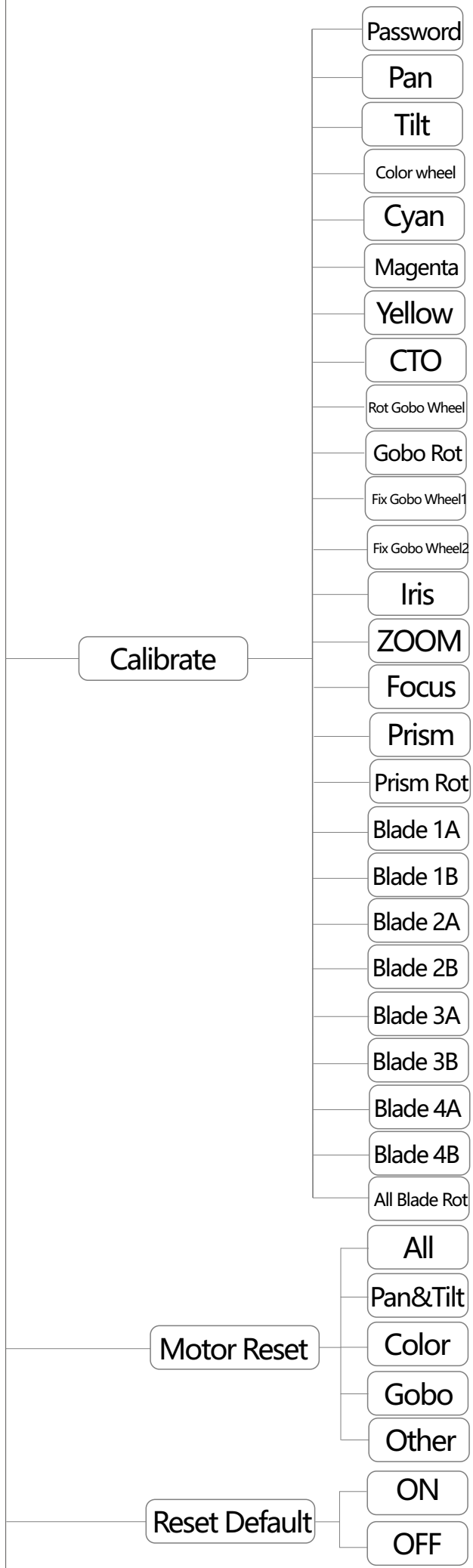
How To Set The Unit
Main Function

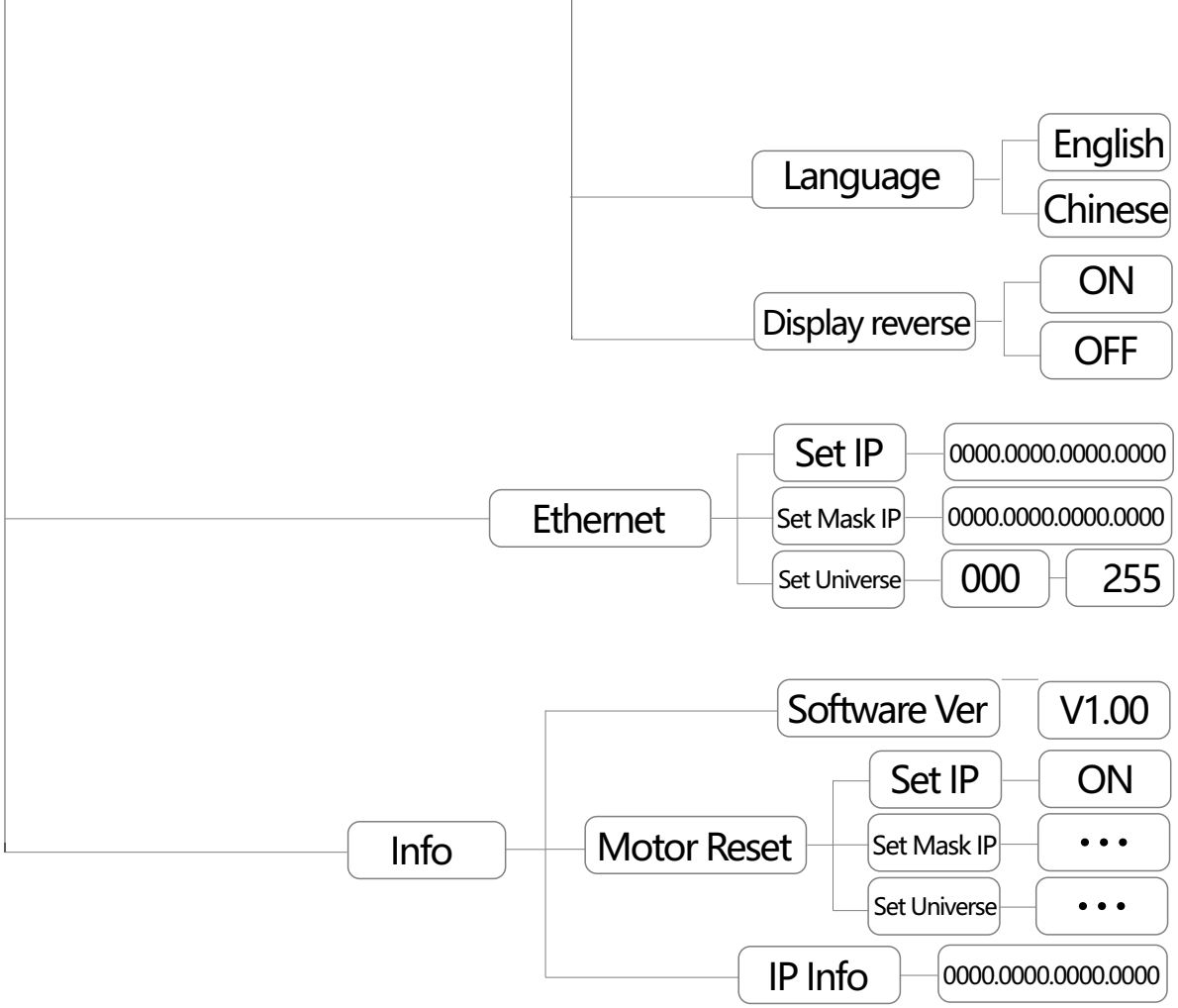
Turn on the unit, press the MENU button into menu mode, and press the UP/DOWN button until the required function is shown on the monitor, select the function by the ENTER button, Use the UP/DOWN button to choose the SUB-Menu , press the ENTER button to store and automatically return to the last menu. Press the MENU button or let the unit idle one minute to exit menu mode.

The main functions are shown below:


Menu
Address
000
512
Mode
DMX MODE
34CH
54CH
Slave
Auto
Auto Speed
000
255
Sound
Sensitivity
000
255
Manual Control
Pan
Pan Fine
Tilt
Tilt Fine
Pan Tilt Speed
Strobe
Dimmer
Zoom
Focus
Colour Wheel
Cyan
Magenta
Yellow
CTO
Rot Gobo Wheel
Gobo Rot
Fix Gobo Wheel1
Fix Gobo Wheel2
Iris
Prism
Prism Rot
Frost
000
255


Blade 1A
000
255
Blade 1B
000
255
Blade 2A
000
255
Blade 2B
000
255
Blade 3A
000
255
Blade 3B
000
255
Blade 4A
000
255
Blade 4B
000
255
All Blade Rot
000
255
Signal Select
DMX
Artnet
Display
ON
OFF
Key Lock
ON
OFF
Temp Unit
Celsius
Fahrenheit
DMX Fail
Hold
Blackout
Dimmer Curve
Square Law
INV SQ Law
Linear
S Curve
Pan Reverse
ON
OFF
Tilt Reverse
ON
OFF
Encoders
ON
OFF
Set
Fan Set
Auto
High
Silent

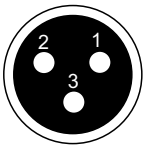

Calibrate
Password
Pan
Tilt
Color wheel
Cyan
Magenta
Yellow
CTO
Rot Gobo Wheel
Gobo Rot
Fix Gobo Wheel1
Fix Gobo Wheel2
Iris
ZOOM
Focus
Prism
Prism Rot
Blade 1A
Blade 1B
Blade 2A
Blade 2B
Blade 3A
Blade 3B
Blade 4A
Blade 4B
All Blade Rot
Motor Reset
All
Pan&Tilt
Color
Gobo
Other
Reset Default
ON
OFF


Language
English
Chinese
Display reverse
ON
OFF
Ethernet
Set IP
0000.0000.0000.0000
Set Mask IP
0000.0000.0000.0000
Set Universe
000
255
Info
Software Ver
V1.00
Motor Reset
Set IP
ON
Set Mask IP
• • •
Set Universe
• • •
IP Info
0000.0000.0000.0000

DMX512 CONNECTION

Connect the DMX input (XLR connector) cable of the luminaire to the DMX output (female XLR connector) of your controller. You can connect multiple XB480 to this same DMX line in a daisy chain. The DMX cable must be a shielded twisted pair that is equipped with male and female XLR connectors.

DMX output
3-pin XLR Socket

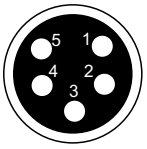


DMX input
3-pin XLR Socket

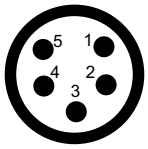
1:Ground
2:Signal(-)
3:signal(+)

or

DMX output
5-pin XLR Socket



DMX input
5-pin XLR Socket



1:Ground
2:Signal(-)
3:signal(+)
4: N.A.
5: N.A.

USING DMX VIA ART-NET

To control the fixture via ArtNet, the fixtures must be interconnected with RJ45 cable. Be careful to set all necessary information regarding the ART-NET configuration with universe being used and specify in the menu that the fixture is being controlled through ART-NET (see OPTION DETAILS in the « OPTIONS » menu).

THE XB480 DMX ADDRESS SETTING

All fixtures must have a DMX start address correctly set when using a DMX signal to control them. The DMX start address is the channel from which the fixture "listens" to the digital control information sent by the DMX controller.

The start address must conform to the one set on the DMX controller to control the fixture. This address is the DMX value that appears on the fixture' s display. You can set the same address for all the fixtures, or some of them, but you can also set a different address for each fixture, as needed. If you do set the same address for all the fixtures, they will all "listen" from the DMX channel you have set. The instructions sent by the DMX controller will affect all fixtures at the same time. If you set a different address per fixture, the DMX controller can control each independently. If, for instance, the fixtures are preset in 00-channel DMX mode (required for full control), you will need to adjust the DMX address for the luminaires as follows: The first unit with DMX address 001, the second with DMX address 035 (34 + 1), the third with DMX address 069 (035+34), etc.

DMX 512 Configuration

Please refer to below configurations to control the fixtures

Attentions:

1. The unit will maintain the last condition until reset if you cut-o ffthe DMX signal.
2. For the channel Function, keep the value for about 5 seconds,
then the corresponding function will take into effect.

Mode		Value	Function
34CH	54CH		
1	1		**Pan Movement 8bit:**
		0-255	Pan Movement
2	2		**Pan Fine 16bit**
		0-255	Fine control of Pan movement
3	3		**Tilt Movement 8bit:**
		0-255	Tilt Movement
4	4		**Tilt Fine 16bit**
		0-255	Fine control of Tilt movement
5	5		**Speed Pan/Tilt movement:**
		0-255	max to min speed
6	6		**Shutter,strobe**
		0-10	Shutter closed
		11-21	Shutter open
		22-126	Strobe effect slow to fast
		127-137	Shutter open
		138-201	Pulse-effect in sequences
		202-212	Shutter open
		213-244	Random strobe effect slow to fast
		245-255	Shutter open
7	7		**Dimmer intensity:**
		0-255	Intensity 0 to 100%
	8		**Dimmer intensity Fine:**
		0-255	Dimmer intensity fine
8	9		**Zoom:**
		0-255	Zoom adjustment from small to big

	10		**Zoom Fine:**
		0-255	Zoom adjustment Fine
9	11		**Focus:**
		0-255	Continuous adjustment from near to far
	12		**Focus Fine:**
		0-255	Continuous adjustment Fine
10	13		**Auto Focus:**
		0-45	Auto Focus Off
		46-87	3m
		88-129	5m
		130-171	7m
		172-213	10m
		214-255	15m
11	14		**Auto Focus Fine:**
		0-255	Continuous adjustment Fine
			Color Wheel:
		0-15	white
		16-22	white+Red
		23-29	Red
		30-36	Red+Dark Amber
		37-43	Dark Amber
		44-50	Dark Amber + Green
		51-57	Green
		58-64	Green+ 1/2 minus green
		65-71	1/2 minus green

12	15	72-78	1/2 minus green+Lime
		79-85	Lime
		86-92	Lime+Lavender
		93-99	Lavender
		100-106	Lavender+blue
		107-113	Blue
		114-120	Blue+White
		121-127	White
		128-189	Forwards rainbow effect from fast to slow
		190-193	No rotation
		194-255	Backwards rainbow effect from slow to fast
	16		**Color Wheel Fine:**
		0-255	Color Wheel colour change to any position Fine
13	17		**Cyan Color:**
		0-255	Cyan (0-white,255-100% Cyan)
	18		**Cyan Color Fine:**
		0-255	Cyan Fine
14	19		**Magenta Color:**
		0-255	Magenta (0-white,255-100% Magenta)
	20		**Magenta Color Fine:**
		0-255	Magenta Fine
15	21		**Yellow Color:**
		0-255	Yellow (0-white,255-100% Yellow)
	22		**Yellow Color Fine:**
		0-255	Yellow Fine
16	23		**CTO Color:**
		0-255	CTO (0-white,255-100% CTO)

	24		**CTO Color Fine:**
		0-255	CTO Fine
17	25		**Rotating gobos,cont.rotation 1:**
		0-7	Open
		8-20	Rot.gobo1
		21-33	Rot.gobo2
		34-46	Rot.gobo3
		47-59	Rot.gobo4
		60-72	Rot.gobo5
		73-85	Rot.gobo6
		86-98	Rot.gobo7
		99-111	Gobo 1 shake slow to fast
		112-124	Gobo 2 shake slow to fast
		125-137	Gobo 3 shake slow to fast
		138-150	Gobo 4 shake slow to fast
		151-163	Gobo 5 shake slow to fast
		164-176	Gobo 6 shake slow to fast
		177-189	Gobo 7 shake slow to fast
		190-221	Gobo wheel rotation forwards from fast to slow
		222-223	No rotation
		224-225	Gobo wheel rotation backwards from slow to fast
18	26		**Rotating gobo index,rotating gobo rotation 1:**
		0-127	Gobo indexing
		128-189	Forwards gobo rotation from fast to slow
		190-193	No rotation
		194-255	Backwards gobo rotation from slow to fast

	27		**Rotating gobo indexing Fine 1:**
		0-255	Fine indexing
19	28		**Fixed Gobo2:**
		0-13	Open
		14-24	Gobo 1
		25-35	Gobo 2
		36-46	Gobo 3
		47-57	Gobo 4
		58-68	Gobo 5
		69-79	Gobo 6
		80-90	Gobo 7
		91-101	Gobo 8
		102-112	Gobo 1 shake slow to fast
		113-123	Gobo 2 shake slow to fast
		124-134	Gobo 3 shake slow to fast
		135-145	Gobo 4 shake slow to fast
		146-156	Gobo 5 shake slow to fast
		157-167	Gobo 6 shake slow to fast
		168-178	Gobo 7 shake slow to fast
		179-189	Gobo 8 shake slow to fast
		190-221	Gobo wheel rotation forwards from fast to slow
		222-223	No rotation
		224-255	Gobo wheel rotation backwards from slow to fast

20	29		**Fixed Gobo3:**
		0-13	Open
		14-24	Gobo 1
		25-35	Gobo 2
		36-46	Gobo 3
		47-57	Gobo 4
		58-68	Gobo 5
		69-79	Gobo 6
		80-90	Gobo 7
		91-101	Gobo 8
		102-112	Gobo 1 shake slow to fast
		113-123	Gobo 2 shake slow to fast
		124-134	Gobo 3 shake slow to fast
		135-145	Gobo 4 shake slow to fast
		146-156	Gobo 5 shake slow to fast
		157-167	Gobo 6 shake slow to fast
		168-178	Gobo 7 shake slow to fast
		179-189	Gobo 8 shake slow to fast
		190-221	Gobo wheel rotation forwards from fast to slow
		222-223	No rotation
		224-255	Gobo wheel rotation backwards from slow to fast
21	30		**Iris:**
		0-255	Max.diameter to Min.diameter
	31		**Iris Fine:**
		0-255	Iris Fine

22	32		**Prism:**
		0-127	Open
		128-255	Prism
23	33		**Rotating prism index,rotating prism rotation**
		0-127	Prism indexing
		128-189	Forwards prism rotation from fast to slow
		190-193	No rotation
		194-255	Backwards prism rotation from slow to fast
	34		**Rotating prism indexing Fine:**
		0-255	Fine indexing
24	35		**Frost:**
		0-127	Open
		128-255	Frost
25	36		**Blade 1A:**
		0-255	Open to Close
	37		**Blade 1A Fine:**
		0-255	Open to Close Fine
26	38		**Blade 1B:**
		0-255	Open to Close
	39		**Blade 1B Fine:**
		0-255	Open to Close Fine
27	40		**Blade 2A:**
		0-255	Open to Close
	41		**Blade 2A Fine:**
		0-255	Open to Close Fine

28	42		**Blade 2B:**
		0-255	Open to Close
	43		**Blade 2B Fine:**
		0-255	Open to Close Fine
29	44		**Blade 3A:**
		0-255	Open to Close
	45		**Blade 3A Fine:**
		0-255	Open to Close Fine
30	46		**Blade 3B:**
		0-255	Open to Close
	47		**Blade 3B Fine:**
		0-255	Open to Close Fine
31	48		**Blade 4A:**
		0-255	Open to Close
	49		**Blade 4A Fine:**
		0-255	Open to Close Fine
32	50		**Blade 4B:**
		0-255	Open to Close
	51		**Blade 4B Fine:**
		0-255	Open to Close Fine
33	52		**All Blade Rotation:**
		0-255	All Blade Rotation
	53		**All Blade Rotation Fine:**
		0-255	All Blade Rotation Fine

34	54		**Reset、LCD、Fans**
		0-9	unused
		10-19	Display Off
		20-29	Display On
		30-39	Display Invert Off
		40-49	Display Invert On
		50-59	Auto fan control mode
		60-69	High fan control mode
		70-79	Silent fan control mode
		80-89	Square Law
		90-99	Linear
		100-109	unused
		110-119	unused
		120-129	unused
		130-139	unused
		140-149	unused
		150-159	All motor reset
		160-169	Scan motor reset
		170-179	Colors motor reset
		180-189	Gobo motor reset
		190-199	Other motor reset
		200-255	unused

ERROR MESSAGES

When you turn on the fixture, it will first perform an automatic reset. The display may show "Err channel is XX" indicating there is a problem with one or more of the channels. "XX" represents channel 1, 2, 3, 4, 5 or 6, which contain the testing sensor for positioning. For example, the message, "Err channel is Pan movement", indicates an error in channel 1. If there is an error on channel 1 and channel 3 at the same time, the following error message may appear: "Err channel is Pan movement", "Err channel is Tilt movement". The system will flash twice, and the fixture will generate a second reset. If the error message persists after more than two resets, the channels showing errors will not work properly but the other channels will function normally.

Please contact your authorized dealer or manufacturer for service and do not attempt to repair the luminaire yourself.

PAN- movement Er

(PAN-yoke movement error): This message will appear after the reset if the yoke's magnetic-indexing circuit malfunctions (failed sensor or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The PAN- movement does not return to the default position after the reset.

TILT- movement Er

(TILT- head movement error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions ((Optical Sensor or Magnetic Sensor fails)) or the stepper motor is defective (or its driving IC on the main PCB).The TILT-movement is not located in the default position after the reset.

Zoom Er

(Zoom error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB). . The Zoom -movement is not located in the default position after the reset.

Focus Er

(Focuswheel error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB).The Focus -movement is not located in the default position after the reset.

Color wheel Er

(Color wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Color - movement is not located in the default position after the reset.

Cyan Color Er

(Cyan Color wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB).The CMY -movement is not located in the default position after the reset.

Magenta Color Er
(Magenta Color - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB).The CMY -movement is not located in the default position after the reset.

Yellow Color Er
(Yellow Color wheel- error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB).The CMY -movement is not located in the default position after the reset.

CTO Er
CTOwheel-e rror)T his m essage w ill appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB).The CTO -movement is not located in the default position after the reset.

Rot_Gobo wheel Er
(Rot_Gobo1wheel - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Rot_Gobo1 - movement is not located in the default position after the reset.

Fix_Gobo wheel Er
(Fix_Gobowheel - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Fix_Gobo - movement is not located in the default position after the reset.

Animation wheel Er
(Animationwheel - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Animation - movement is not located in the default position after the reset.

Iris Er
(Iriswheel - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Iris - movement is not located in the default position after the reset.

Prism Er
(Prism error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Prism_5 - movement is not located in the default position after the reset.

Frost Er
(Frost - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Frost 1 - movement is not located in the default position after the reset.

Animation_Rot wheel Er
(Animation_Rotwheel - error) This message will appear after the reset of the fixture if the head' s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB).The Animation_Rot - movement is not located in the default position after the reset.

CLEANING AND MAINTENANCE

The following points have to be considered during inspection:
1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations to the housing , lenses, rigging and installation points (ceiling, suspension, trussing).
3) Motorized parts must not show any signs of wear and must move smoothly without issue.
4) The power supply cables must not show any damage, material fatigue or sediment.
Further instructions depending on the installation location and usage have to be adhered to by a qualified installer and any safety concerns have to be removed.