

TECHNICAL SPECIFICATIONS

Item:	LED Moving Head Beam 7X12W Osram
Power supply:	AC 100 - 250V, 50/ 60 Hz ~
Power consumption:	150W
Fuse:	250V 3A
Lamp type:	7 Pieces 12W RGBW-in-1 High Power LEDs
Color:	Red: 7x3W LEDs
	Green: 7x3W LEDs
	Blue: 7x3W LEDs
	White: 7x3W LEDs
	Yellow: Mixd by Red + Green
	Purple: Mixed by Red + Blue
	Cyan: Mixed by Green + Blue
Strobe:	Strobe effect by LED flash
Dimmer:	Dimming effect by LED current change
Pan movement:	540 degrees
Tilt movement:	260 degrees
Control mode:	DMX 512 mode, 14 channels
	Auto / Sound-active / Master-slave
Dimmension:	304x267x168mm
Packing size:	360x360x445mm
Net weight:	5.8kgs
Gross weight:	6.8kgs

Please note: Every information is subject to change without prior notice.



LED MOVING HEAD PASTELLO MINI BEAM 14 CHANNELS 7X12W RGBW USER MANUAL



CLEANING AND MAINTENANCE



DANGER TO LIFE!

Disconnect from mains before starting maintenance operation!



The operator has to make sure that safety-relating and machine-technical installation are inspected by

- an expert after every four years in the course of an acceptance test.
- a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the devices or parts have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, fixations and installation spots (ceiling, suspension, trussing, etc.)
3. Mechanically moved parts like axles, yokes and others must not show any traces of wearing (e.g. Material abrading or damages) and must not rotate with unbalance.
4. The electric power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

The lens should be replaced when it is obviously damaged, so that its function is impaired, e.g. due to cracks or deep scratches.!



The interior of the device need to be cleaned at least annually by an air-jet or a vacuum cleaner.

There are no serviceable parts inside the device except for the lamp and fuse. The lamp should be replaced when it is damaged, or it is obviously dimmed, or its working life is exceeded (even if it is undamaged, it might cause explosion when the working life is exceeded). The LED lamps should be replaced by qualified technicians only!.

Maintenance and service operation can be only carried by authorized dealers.

Should you need any spare parts, please use genuine parts.

Should you have further questions, please contact your dealer.

DMX CHANNEL	FUNCTION	DMX VALUE	DESCRIPTION
1	DIMMER	0 - 255	DIMMER, 0% TO 100%
2	RED	0 - 255	RED COLOR DIMMER (0% - 100%)
3	GREEN	0 - 255	GREEN COLOR DIMMER (0% - 100%)
4	BLUE	0 - 255	BLUE COLOR DIMMER (0% - 100%)
5	WHITE	0 - 255	WHITE COLOR DIMMER (0% - 100%)
6	CUSTOMIZE	0 - 255	CUSTOMIZED COLOR DIMMER (0% - 100%)
7	STROBE	0	NO STROBE
		1 - 255	STROBE, SLOW TO FAST
8	MACRO	0	NO MACROS
		1 - 25	FADE TIME BY CONTROLLER ON
		26 - 50	FADE TIME BY CONTROLLER OFF
		51 - 90	PROGRAM COLOR SELECTION
		91 - 130	PULSE
		131 - 170	COLOR CHANGE
		171 - 210	COLOR FADE
		211 - 250	BUILT-IN PROGRAM 1 (UNCONTROLLABLE)
251 - 255	SOUND OPERATION (UNCONTROLLABLE)		
9	SPEED	0-255	SPEED FPR CHANNEL 8, SLOW TO FAST
10	PAN	0 - 255	PAN MOVEMENT, 0 - 540 DEGREES
11	PAN FINE	0 - 255	PAN FINE ADJUSTMENT 0 TO 1.75°
12	TILT	0 - 255	TILT MOVEMENT, 0 - 200 DEGREES
13	TILT FINE	0 - 255	TILT FINE ADJUSTMENT 0 TO 1°
14	RESET	0 - 250	NO FUNCTION
		251 - 255	RESET AFTER 3 SECONDS



CAUTION!

Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!



For your own safety, please read this user manual carefully before your initially start-up!

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- include every supplementary update with the original manual

Before your initial start-up, please make sure that there is no damage caused during shipment. Should there be any, do not use the device and consult your supplier.

SAFETY INSTRUCTIONS



CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

Important: Damages caused by disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to drastic temperature fluctuation (e.g. after delivery), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. The power plug must only be plugged into a protection-class I outlet. The green or yellowish green conduct should be earthed.

Do not connect this device to a dimmer pack.

Always plug in the power plug least. Check the device and the power cord from time to time. Make sure that the available voltage is not higher than that stated on the rear panel. Make sure that the power cord is never crimped or damaged by sharp edges

Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.



CAUTION! EYEDAMAGES!

Avoid looking direct to the light source (meant especially for epileptics)!



During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

During its operation the housing of the device becomes hot (even as high as 120°C)! Do not touch the device bare hands.

For replacement, use same type and rating lamp or fuse only.

Always disconnect from the mains, when the device is not in use or before cleaning it.

For overhead use (mounting height > 100cm), always fix it with at least 1 safety rope that can hold at least 10 times the weight of the device.

Keep away children and amateurs from the device! Never leave the device running unattended!

Please note that damages caused by manual modifications on the device or unauthorized operation by unqualified persons are not subject to warranty.

OPERATING DETERMINATIONS

This device is a moving head wash for creating decorative effects for discotheques, stages etc. It is allowed to be operated with an alternating current of 100-250V 50/60 Hz, and is designed for indoor use only.

Operate the device only after having familiarized with its functions. Check the device carefully to see if the housing is firmly closed and with all screws tightly fastened.

Never run the device without a lamp! The lamp must never be ignited if the objective-lens or housing is open, as the discharge lamp might explode and emit a high ultra-violet radiation, which may cause burns.

Do not shake the device. Avoid brute force when installing or operating.

Never lift the device by holding its projector-head, as the mechanics may be damaged. Always hold the device at the transportation handles.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

The min. distance between the device and illuminated surface is 1 meter.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the device.

Reset

Press the Menu button to back to the main menu.

Press the Menu button once again.

Press Up or Down button to select the second icon (Setup) on the second line.

Press the Enter button.

Press the Up or Down button to select the RESET.

Press the Enter button, you will see YES in the right highlighted.

Press the Enter button to save your setting. The device will start to RESET once.

SetUp	
TempSwitchSet	OFF
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	

SetUp	
TempSwitchSet	ON
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	YES

Other useful setting

By the Setup menu you may make many customerized settings,

Fader Delay, ON or OFF.

Signal Link, ON or OFF.

Code Wheel, ON or OFF.

Screen Saver, On or OFF.

Factory Default Set.

OPERATION

1. Working modes

This device has 3 working modes, DMX mode, Auto mode and Sound mode.

2. Auto mode

See page 7.

3. Sound mode

See page 8.

4. DMX mode

In DMX mode you can connect more than one device to build a DMX chain and control all devices via a DMX controller. You need to assign a DMX start address for all devices in the DMX chain. See page 5.

To set the device work in DMX mode, see page 7.

DMX CHANNEL

This device has 14 channels. See next page.

Temperature Switch Set

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

Press Up or Down button to select the second icon on the second line.

Press the Enter button.

You will see the image on the right. There are 11 selections, PanReverse, TiltReverse, etc.

Press the Up or Down button to select the TempSwitchSet.

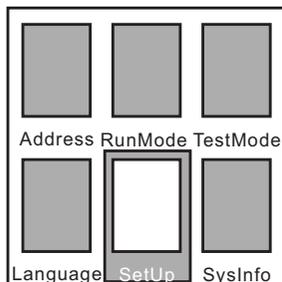
Press the Enter button, you will see ON or OFF on the right will be highlighted.

If you select ON, the Temperature switch will start working.

Press the Up or Down button to select from ON or OFF.

Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



SetUp	
TempSwitchSet	OFF
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	

Notice: It is strongly recommended that you select the ON for Temperature Switch Set. Otherwise the unit may get too hot!

Temperature Switch Set

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

Press Up or Down button to select the second icon on the second line.

Press the Enter button.

You will see the image on the right. There are 11 selections, PanReverse, TiltReverse, etc.

Press the Up or Down button to select the TemperatureSet.

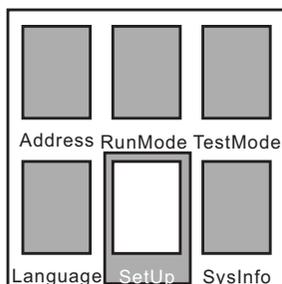
Press the Enter button, you will see a 3-digits figure in the right highlighted. The figure is between 050-120.

This is the maximum temperature allowed in °C.

Press the Up or Down button to select from 050 - 120°C.

Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



SetUp	
TempSwitchSet	OFF
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	

Notice: It is strongly recommended that you select a proper maximum Temperature. Otherwise the unit may get too hot!

SetUp	
TempSwitchSet	ON
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	

Always fix the device with at least 2 safety ropes. Fix the safety ropes at the correct holes only.

The maximum ambient temperature $t_a=45^{\circ}\text{C}$ must never be exceeded. Otherwise the lamp will be switched off and the device will be out of operation for 5 minutes.

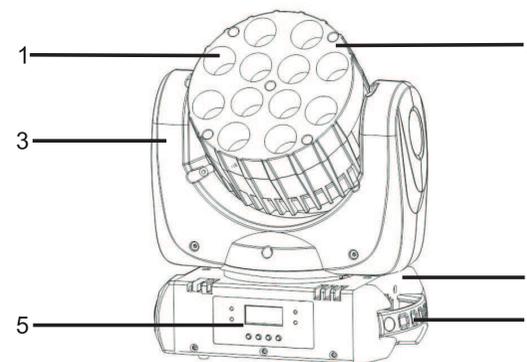
Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Please use the original packaging if the device is to be transported.

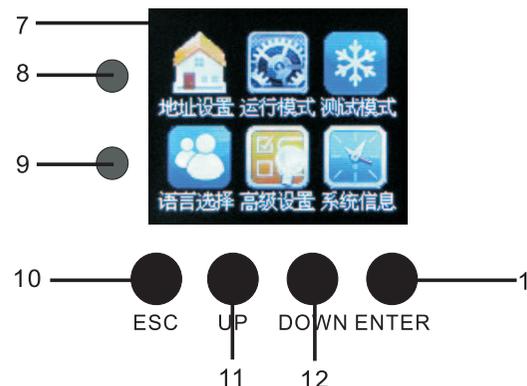
Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, it may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, etc.

DESCRIPTION



1. LENS
2. PROJECTOR HEAD
3. YOKE
4. BASE
5. CONTROL PANEL
6. CARRYING HANDLE



CONTROL PANEL

7. LCD DISPLAY WINDOW
8. DMX SIGNAL INDICATOR (GREEN)
9. ERROT INDICATOR (RED)
10. MENU BUTTON
11. UP BUTTON
12. DOWN BUTTON
13. ENTER BUTTON

SETUP

1. The lamp

This device uses 7 pieces OSRAM brand 20 watt RGBW-in-1 High Power LEDs, including 7 pieces red, green, blue, and white color, each 5 watt.

Color mixing

The LEDs in 3 Basic colors (red, green, blue) can create different color mixing.

E.g. Red + Green = Yellow, Red + Blue = Purple, Blue + Green = Cyan, Red + Green + Blue = White.

With the adjustment of the output of each color, you will get thousands of different color mixing during DMX operation.

The service life of the LEDs is around 50,000 to 100,000 hours. This means you do not need to change the LEDs for many years. However, sometimes one of the LEDs might fail for some reasons. Since the LEDs are connected every 6 of one color into a series, when one LED fails, the whole series (six LEDs) will not be lit.

When this occurs, fix the device by qualified technicians only.

2. Rigging the device

	DANGER OF FIRE! Make sure there is no inflammable material nearby during installing. Follow the instructions stated on the bottom of the base of this device.	
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	WARNING! Use 2 clamps to rig the fixture onto a truss. Make sure it is fixed properly! Ensure the structure (truss) is secure.	
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This device can be installed directly onto a truss, wall or stage floor in any orientation without altering its operation characteristics.

Use proper bolts to mount the device via its brackets. The brackets should be attached to the device with proper bolts!

Always use a secondary safety rope that can hold at least 10 times the weight of the device through the holes on the bottom of the device. Never use the carrying handles for secondary attachment.

The minimum distance between the device and illuminated surface is 1 meter. There should not be any flammable materials 10 meters around the device!

3. Connection to mains

Connect the device to mains with the enclosed power plug. The occupation of the

Very important!

The values you selected for the Red, Green, Blue, and White colors will be a mixed color, and it will be the customized color of the channel 6 for DMX operation! It is strongly recommended that you select the same color for all devices that will work together!

Pan/Tilt reversed direction

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted. Press Up or Down button to select the second icon on the second line.

Press the Enter button.

You will see the image on the right. There are 11 selections, PanReverse, TiltReverse, etc.

Press the Up or Down button to select the PanReverse or TiltReverse.

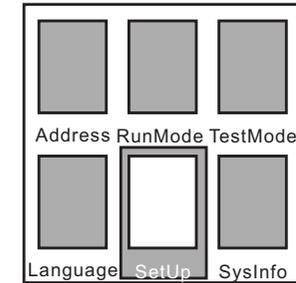
Press the Enter button, you will see ON or OFF on the right will be highlighted. This is the direction of Pan or Tilt movement.

If you select ON, the movement direction will be reversed.

Press the Up or Down button to select from ON or OFF.

Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



SetUp	
PanReverse	OFF
TiltReverse	OFF
FaderDelay	ON
SignalLink	ON
CodeWheel	ON
TempSwitchSet	ON

SetUp	
PanReverse	OFF
TiltReverse	OFF
FaderDelay	ON
SignalLink	ON
CodeWheel	ON
TempSwitchSet	ON

Display reversed direction

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

Press Up or Down button to select the second icon on the second line.

Press the Enter button.

You will see the image on the right. There are 11 selections, PanReverse, TiltReverse, etc.

Press the Up or Down button to select the PanReverse or TiltReverse.

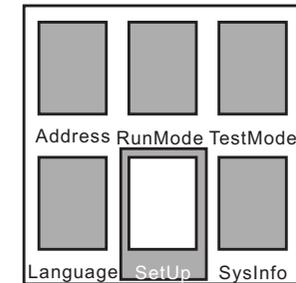
Press the Enter button, you will see ON or OFF on the right will be highlighted. This is the direction of the Display.

If you select ON, the display direction will be reversed.

Press the Up or Down button to select from ON or OFF.

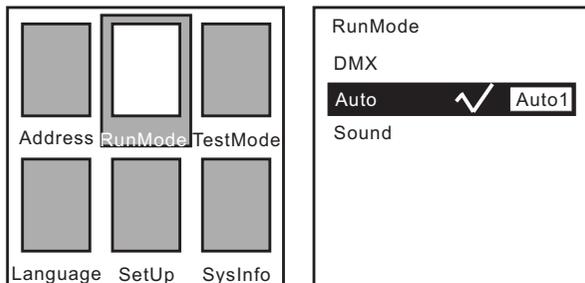
Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



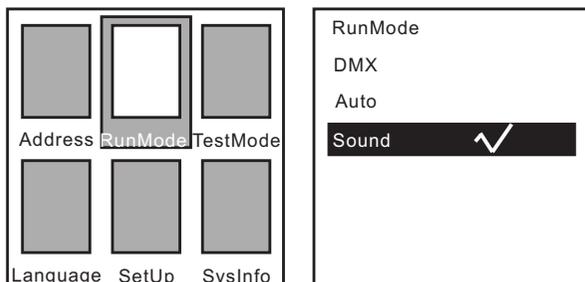
SetUp	
TempSwitchSet	ON
TemperatureSet	070
ScreenSaver	ON
DisplayReverse	ON
FactorySet	
RESET	

You will see the image on the right.
 Press the Up or Down button to select the Auto mode.
 Press the Enter button, you will see Auto1 - Auto8 on the right. This is the 8 built-in programs for auto operation.
 Press the Enter button, the Auto1 - Auto8 will be highlighted.
 Press the Up or Down button to select one of the 8 programs.
 Press the Enter button to save your setting.
 Press the Menu button to exit to the main menu.



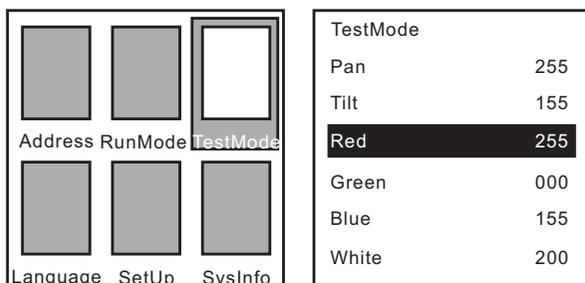
Sound-activated operation

Press the Menu button to back to the main menu.
 Press the Menu button once again, you will see one of the 6 icons will be highlighted.
 Press Up or Down button to select the second icon on the first line.
 Press the Enter button.
 You will see the image on the right.
 Press the Up or Down button to select the Sound mode.
 Press the Enter button to save your setting.
 Press the Menu button to exit to the main menu.



Test mode

Press the Menu button to back to the main menu.
 Press the Menu button once again, you will see one of the 6 icons will be highlighted.
 Press Up or Down button to select the third icon on the first line.
 Press the Enter button.
 You will see the image on the right. There are 6 selections, Pan, Tilt, Red, Green, Blue and White.
 Press the Up or Down button to select one of the 6 selections.
 Press the Enter button, you will see XXX on the right will be highlighted. This is a figure between 000 and 255.
 Press the Up or Down button to select one of the 000 - 255.
 Press the Enter button to save your setting.
 Press the Menu button to exit to the main menu.



connection cables is as below:

Cable color	Pin	Internation code
Brown	Live	L
Blue	Neutral	N
Yellow / Green	Earth	

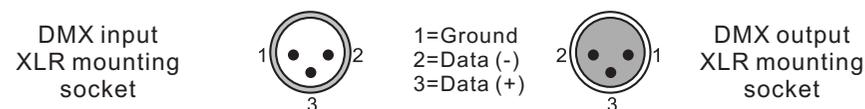
The earth has to be connected.

4. Master-slave / DMX 512 connection

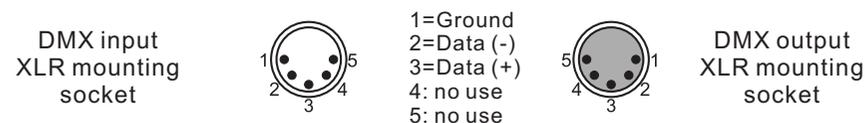
The wires must not come into contact with each other, otherwise the fixtures will not work at all, or will not work properly.

Only use a stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Occupation of the XLR-connection:



If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the 1st device in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

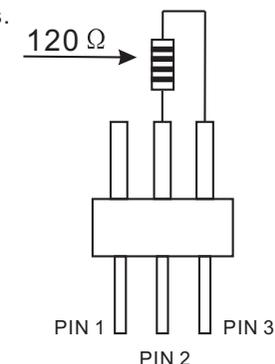


Building a serial Master-slave / DMX-chain:

For Master-slave connection, you need to set a device as the Master device. All other devices will be the slave devices.

Connect the DMX-output of the first device (Master) in the chain with the DMX-input of the second device (the first slave device). Connect the DMX-output of the second device (the first slave device) with the DMX-input of the third device (the second slave device). Always connect one output with the input of the next device until all devices are connected.

Caution: At the last device, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Data(-) and Data(+) into a 3-pin XLR-plug and plug it in the DMX-output of the last device.



6. Control panel and display

The control panel on the base of the device allows you to control the device, including the DMX start address setting, Master and Slave device setting under M/S mode, reset, etc.

Display window

The device use a color LCD display module for displaying your setting. The module can display both letters and figures.

Buttons for setup

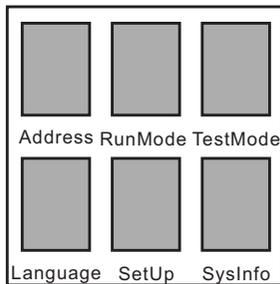
MENU button: Main menu selection / Exit.

UP / DOWN: Menu selection / Select your desired value

ENTER: Enter main menu / Save Menu selection or save your desired value

Main Menu

Press MENU button, the display will show below:



Language selection

Press the Menu button, you will see the main menu as above.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

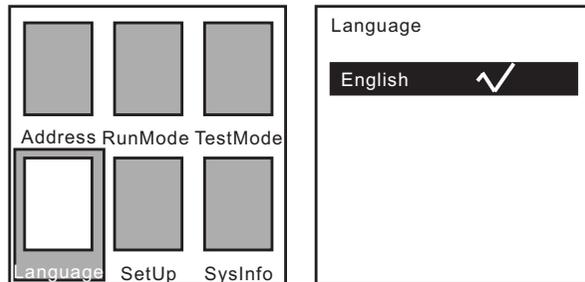
Press Up or Down button to select the first icon on the second line.

Press the Enter button. You will see the image on the right.

Press the Up or Down button to select your desired language.

Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



DMX Address setting

The DMX starting address is defined as the 1st channel from which the device will

respond to the controller.

This device has 14 channels.

If you set, for example, the starting address to channel 1, the device will use the channels 1st to 14th for control. The first available channel for the next fixture is 15th.

Please be sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX chain.

If 2, 3 or more devices are set with same start address, they will work synchronizely.

For address setting follow this procedure:

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

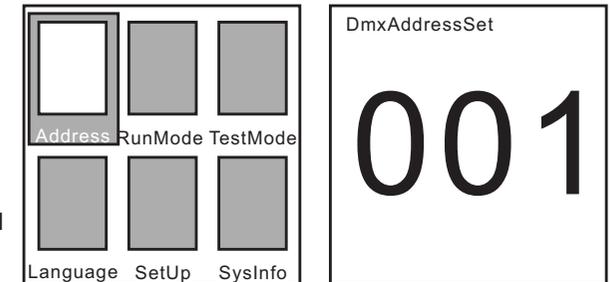
Press Up or Down button to select the first icon on the first line.

Press the Enter button. You will see XXX. This is a 3-digits-figure between 001 to 512, i.e. The DMX start address you set last time.

Press the Up or Down button to select your desired DMX address.

Press the Enter button to save your setting.

Press the Menu button to exit to the main menu.



DMX operation selection

Press the Menu button to back to the main menu.

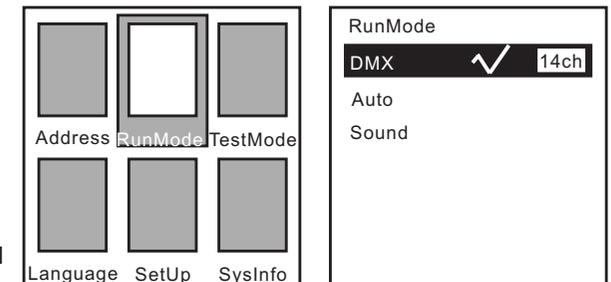
Press the Menu button once again, you will see one of the 6 icons will be highlighted.

Press Up or Down button to select the second icon on the first line.

Press the Enter button. You will see the image on the right.

Press the Up or Down button to select the DMX mode.

Press the Menu button to exit to the main menu.



Automatic operation

Press the Menu button to back to the main menu.

Press the Menu button once again, you will see one of the 6 icons will be highlighted.

Press Up or Down button to select the second icon on the first line.

Press the Enter button.