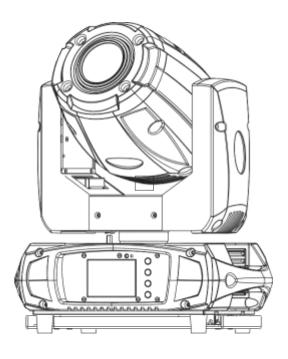


LIBERTY 50S



Version 1.0

USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual



11.Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER!

Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters-->Elapsed Time).

Replacing the fuse. Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anticlockwise).
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.



1. Safety instructions

Thank you for choosing our Liberty 50S. for your own safety, please read this user manual carefully **REFORE YOU INITIAL START-UP!**

CAUTION

Be careful with your operations.
With a high voltage you can suffera 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 manual

CAUTION!

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

Important:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee. Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

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.

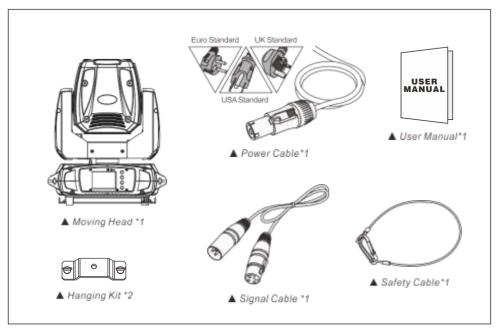
Do not touch the device's housing bare hands during its operation (housing becomes hot)! For replacement use lamps and fuses of same type and rating only.

CAUTION! EYE DAMAGES! Avoid looking directly into the light source (meant especially for epileptics)!



2 UNPACKING

The Liberty 50S adopts a 50W white LED lamp which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



The Liberty 50S is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook . The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live per formances, theater, studio, nightclubs and discos.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.



10.RF Remote Controller Instruction



- 1.Press 3 times "Spot" to activate Spot series RF function
- 2.Press 3 times "Beam" to activate Beam series RF function
- 3.Press 3 times "Wash" to activate Wash series RF function
- 4 Press 3 times "Par" to activate Wash series RF function
- 5. "Dimmer" brightness adjustment (press "Dimmer" button then press "+", "-") to adjust brightness.
- 6. "Strobe" turn on strobe effect (press "Strobe" button, can adjust speed by "+", "-").
- 7. "adjust the speed of sound program or adjust the sensitivity of sound control.
- 8. " adjust the speed of self-propelled program or adjust the sensitivity of voice control.
- 9. "1-9" Auto programs or sound activated state, press the corresponding button into the corresponding program; In the "Dimmer" or "Strobe" state, press this button can be optional color matching
- 10 " Tall reset
- 11. "DMX" selects wire DMX signal as signal source.

Tips:

- 1. When activated RF function, the lamp will not control by DMX signal, and the lamp is in the RF control state. And each remote controller can only control a series of lamps at the same time.
- 2. When Wash series opens "Dimmer" and "Strobe", it needs to press the number button to brighten the corresponding color. In this mode, the number botton can only switch the color wheel, but not the corresponding key color for Spot and Beam series.
- 3. To turn off RF function, there are the following methods:
- (1). Select the signal input mode needed, "DMX" can exit RF function;
- (2). Switch to other series of lamps, "Spot", "Beam", "Wash", "Par" switch to other units, will be restored to the original set signal source input;
- (3). Press the menu button of the display panel.



			Special function
		019	No function
		2039	No function
		4059	Enter power saving mode
		6079	Exit power saving mode
		8084	All Motor reset
		8587	Scan motor reset
		8890	Colors motor reset
	11	9193	Gobo motor reset
13		9496	No function
		9799	Other motor reset
		100119	Internal program 1
		120139	Internal program 2
		140159	Internal program 3
		160179	Internal program 4
		180199	Internal program 5
		200219	Internal program 6
		220239	Internal program 7
		240255	Internal Sound program 1



3.TECHNICAL INFORMATION

Light Source

n1* 50W white led lamp nLife span: 50000 hours nColor: Cool white, 7500K

Ontics

nBeam angle:12°

nSpecific high precision glass optic system

nPower Supply

nInput Voltage:AC90-260V 50/60Hz nPower Consumption: Sate of charge 190W; nnoncharged state: 100W

Battery

nLED full use 5-6 hours, built-in program use 8-12 hours

nTemperature detection function (-20 °C to 50 °C normal charge,;not the range,it do damage to the battery and can not be normal charged)

nBattery short circuit protection, overcurrent protection

nOverflow charging

nAfter the battery is switched on, the battery is automatically charged when the battery is low, and the charging function is automatically stopped when the battery is fully charged. nSupport battery extension.

Control

nControl Signal:DMX512, master-slave and sound activated ,auto operation or wireless

nControl Channel: 13/11 DMX channels USITT DMX-512.

nDMX recorder and edit function integrated

Movement

n8/16 bit smooth and precise resolution for PAN/TILT

n360°/540°/630° PAN and 90°/180°/270° TILT movement

nPAN/TILT inversion available

nScan position memory, auto reposition after unexpected movement

Rotating Gobo Wheel



Color Wheel



Color Wheel

n1 Color wheel with 7 colors plus open

Gobo Wheel

n1 Rotatable gobo wheel with 6 rotatable and interchangeable gobos

nplus open with speed adjustable, stream effect, dithering effect and

nrotatable clockwise or anticlockwise

nGobo size 21.8mm (external dimensions)/14.5mm (inner dimensions)

Working Environment

nFan cooling system

n-20-50°C max ambient temperature

nConstant temperature readout and management function. nProtection Rating: IP 20

Construction & Weight

nDimensions:385*380 *220 (mm) nPacking Dimensions:370*290 *430(mm) nNet

Dimensions:370 290 430(mm)

Weight:8.7kgs

nGross Weight: 11.2kgs

n

nFeatures

nABS die-cast plastic cover with Aluminium structure

n2.5-15m electronic focus

n3-Facet prism with variable speed and direction

n0-100% Linear LED dimmer

n28T/sec high speed LED shutter/strobe effect with variable speed

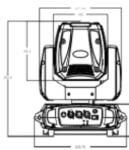
nPreset variable/random strobe and dimming pulse effect

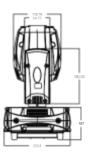
n2.4'TFT LCD display (320*240pix) n3-Pin XLR connectors IN/Out n55dB

at 3'dB rating

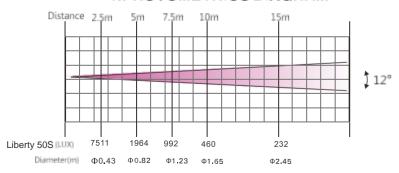
n2*1/4 turn fastening Omega clamp

n1* Safety attachment point





4. PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- The Liberty 50S is for beam effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- . Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And
- don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing
 the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.



		6069	gobo 6
7	5	7089	Gobo 1 shake slow to fast
		90109	Gobo 2 shake slow to fast
		110129	Gobo 3 shake slow to fast
		130149	Gobo 4 shake slow to fast
		150169	Gobo 5 shake slow to fast
		170189	Gobo 6 shake slow to fast
		190255	Rot. gobo wheel cont. rotation slow to fast
			Gobo rotation
	6	03	no function
8		4127	Forwards gobo rotation from fast to slow
		128131	Gobo rotation stop
		132255	Backwards gobo rotation from slow to fast
			Shutter
		031	Shutter closed
	7	3263	shutter open
		6495	Strobe effect slow to fast
9		96127	shutter open
		128159	Pulse-effect in sequences slow to fast
		160191	shutter open
		192223	Random strobe effect slow to fast
		224255	shutter open
10	8		Dimmer
10	0	0255	Dimmer 0%100%
11	9		Focus
11		0255	In(near) to out(far)
	10		Prism &Rrotating
12		05	OFF
14		6127	ON
		128255	Rrotating from slow to fast



9. DMX PROTOCOL

Mode/Channel		Value Function	
16b	8b		
1	,		Pan
	1	0255	PAN Movement
0			Pan-fine
2		0255	Fine control of Pan movement
2	2		Tilt
3		0255	Tilt Movement
4			Tile-fine
4		0255	Fine control of Tilt movement
			Speed pan/tile
		0225	max to min speed
5	3	226235	blackout by movement
		236245	blackout by all wheel changing
		246255	no function
			Color wheel
		015	Open / white
	4	1631	Color 1
		3247	Color 2
		4863	Color 3
6		6479	Color 4
		8095	Color 5
		96111	Color 6
		112127	Color 7
		128189	Forwards rainbow effect from fast to slow
		190-193	Color rotation stop
		194255	Backwards rainbow effect from slow to fast
	5		Gobo wheel
7		09	Open
		1019	gobo 1
		2029	gobo 2
		3039	gobo 3
		4049	gobo 4
		5059	gobo 5

08

6 INSTALLATIONS

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 f t) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

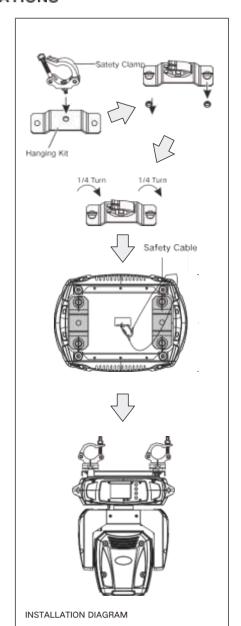
Mounting points:

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

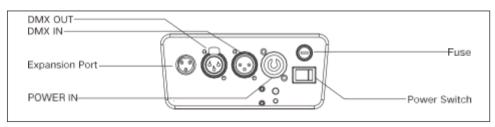
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting:

Liberty 50S provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly .



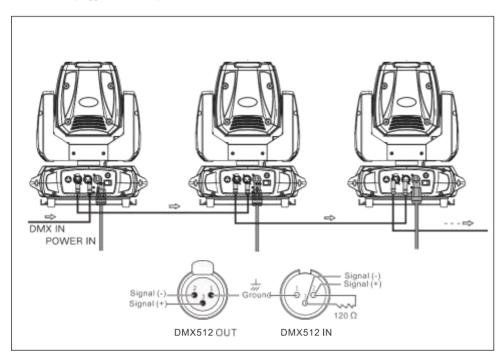
7 CONTROL CONNECTION



Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors.

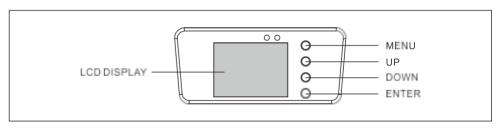
Please refer to the diagram below. DMX-512 connection with DMX terminator.

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a3 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.





8.MENU OPERATIONS



		MENU	Description
Function	Dmx Address	DMX address setting	
Mode	Channel Mode	CH13	Standard mode
		CH11	Vector mode
	Auto Run	Internal Program1~8 Mast	er/Alone Auto run
	Music Control	Internal Program1~8 Mast	er/Alone Sound Control
Option	Reset Default	Yes/No	Reset Default
		Wire DMX	
	Signal Set	Wireless DMX	Wireless DMX
		Act WDMX & Out	Act WDMX & Out
	Reverse Pan (On/Off)		Reverse Pan
	Pan / Tilt	Reverse Tilt (On/Off)	Reverse Tilt
		Select Pan 630°/540°/360°	Pan Degree,default is 540°
	Select Tilt 270°/180°/90°		Tilt Degree,default is 270°
	UI SET	Mic sensitivity 0~99%	MIC Sensitivity Setting
		OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
		Start Up Saving	
nformation	Temperature	XXX°C/°F	Current Temperature
	Software Version	Software Version	
Manual	Reset	Total Reset	Total Reset
Control		Pan/Tilt Reset	Pan/Tilt Reset
		Color Reset	Color Reset
		Gobo Reset	Gobo Reset
		The Others Reset	The Others Reset
	Channel	PAN=XXX	Channel Control
	Calibration PAN=XXX		Calibration(code:088)
Advanced		No Display DC	No Display anything of
ccessCode088	Personal Set	Battery information	
		No Reset ACDC	No Reset of Switching
			power supply
		LED Full	Enlarge LED Power and
			Luminance