

FOS technologies Smart BSW Moving Light User Manual

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FOS technologies Smart BSW Moving Light



Safety instructions

Thank you for choosing our FOS Smart BSW. for your own safety, please read this user manual carefully BEFORE YOU INITIAL START – UP!

CAUTION

- Be careful with your operations. With a high voltage you can suffer 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 powercord 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) !

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. gobo and graphic wheels and the internal lenses should be cleaned monthly. 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).

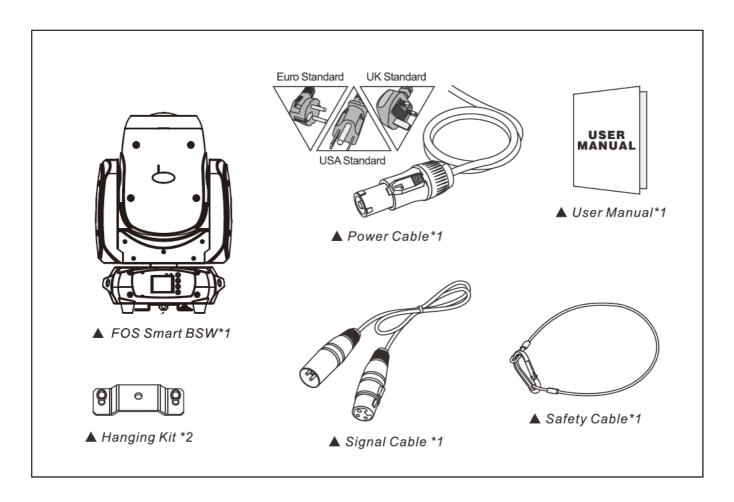
Replacing the fuse. Before replacing the fuse, unplug mains lead

- 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.

UNPACKING

The FOS Smart BSW adopts a 200W 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 FOS Smart BSW 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.

TECHNICAL INFORMATION

Light Source

• 1•200w SeawyTM LED ,25×0.2W RBG SMD LED 7500K, 50000 hours life span.

Power Supply

• Input Voltage: AC90-260V 50/60Hz

• Power Consumption: 260W

Construction & Weight

• **Dimensions:** 297*184*433(mm)

• Packing Dimensions:385*275*500 (mm)

• Net Weight:10.5 kgs

• Gross Weight:12.Skgs

Optics

- Zoom range: 2.s•-14• beam application; 8°-36° spot
- · application
- · Improved optics and flat beam field
- · No need for adjustment of reflector or lamp
- · Anti-reflection 136mm front lenses

Control

- · Control 5ignal:DMX512, master-slave and sound
- · activated or auto operation
- Control Channel:23/21/31 DMX channels USITT DMX-512
- · DMX recorder and function integrated

Movement

- 630° /540° /360° PAN and 270°/180° /90° TILT movement optional
- Smooth and precise resolution for PAN/TILT movement
- Scan position memory, auto preposition after unexpected movement.

Colors Wheel&Gobos Wheel:

- 1 Color wheel with 9 colors plus open.
- 1 Static gobo wheel with 12 gobos plus open
- 1 Rotating gobo wheel with 7 gobos plus open

Working Environment

- · Fan cooling system
- -35-45°C max ambient temperature
- Constant temperature readout and management function.
- Protection Rating: IP 20

Features

- · Anti-reflection lenses
- · No need for adjustment of reflector or lamp
- · Dual flag mechanical dimming system
- 20T /sec high speed shutter/strobe effect with variable
- Speed
- 0-100% Linear LED shutter

- · Frost filter available
- Motorized focus from near to far(2m-20m)
- · Linear motorized Zoom
- Automatic Pan/ Tilt position correction and automatic
- Pan/Tilt mechanical lock function
- 3-facet prism with variable speed and direction
- 2.4' TFT LCD display (320*240pix)
- Display reversible for up side down application
- · Vector mode with blackout MIB function
- Electronic ballast and power supply
- Power con IN/OUT
- 3-Pin XLR connectors IN/OUT
- · Lamp using time readable on the display
- 55dB at 3'dB rating
- 2*1/4 turn fastening Omega clamps
- 1 •safety attachment point available

Rotating gobos

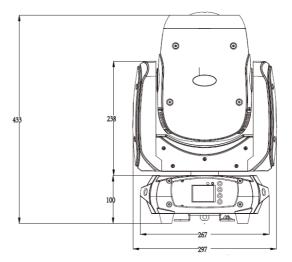






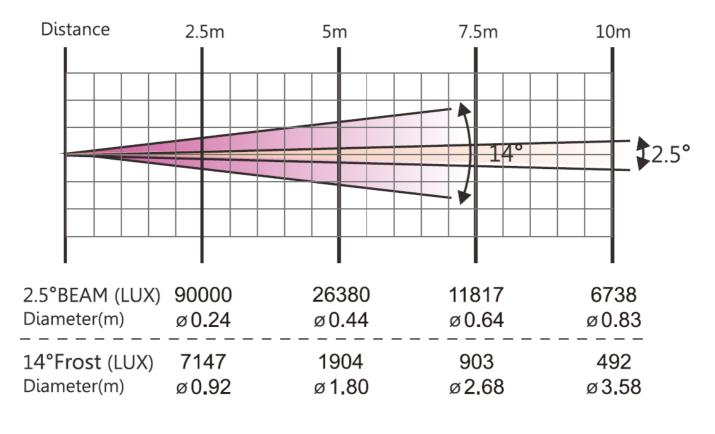


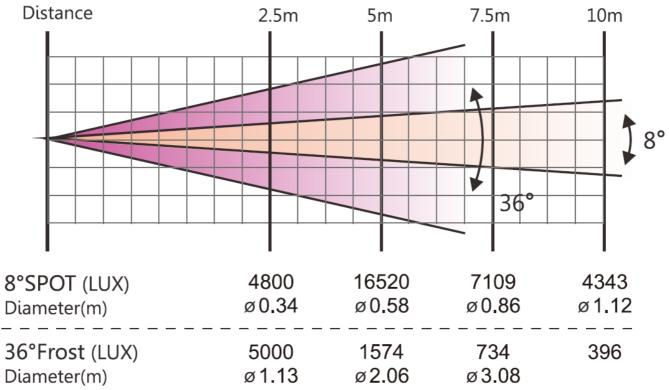




		31	0255	Pix Expand Patterns Background Blue 0 – 100%.
		0.1		Pix_Background Blue
			0255	Pix_Expand Patterns Background Green 0 – 100%.
		30		
		28		Pix_Background Green
			0255	Pix_Expand Patterns Background Red 0 – 100%.
				Pix_Background Red
			0255	Pix_Expand Patterns Background dimmer 0 – 100%.
				Pix_Background dimmer
			0255	
		27		(Foreground Color Share with "Pix_Macro"Channel)
				Pix Expand Patterns Foreground dimmer 0 – 100%.
				Pix_Foreground dimmer
			240255	Pix Dynamic Scene17
			226239	Pix Dynamic Scene 16
			212225	Pix Dynamic Scene15
			198211	Pix Dynamic Scene14
			184197	Pix Dynamic Scene 13
			170183	Pix Dynamic Scene 12
			156169	Pix Dynamic Scene11
			142155	Pix Dynamic Scene10
			128143	Pix Dynamic Scene9
		26	114127	Pix Dynamic Scene8
			100113	Pix Dynamic Scene7
			8699	Pix Dynamic Scene6
			7285	Pix Dynamic Scene5
			5871	Pix Dynamic Scene4
			4457	Pix Dynamic Scene3
			3043	Pix Dynamic Scene2
			1629	Pix Dynamic Scene1
			015	No Function
			0200	Expand Patterns
23	21	25	0255	Slow to Fast
			240233	Pix Dynamic Scene 17 Pix Macro_Speed
			240255	Pix Dynamic Scene 16 Pix Dynamic Scene 17
			212225 226239	Pix Dynamic Scene 15 Pix Dynamic Scene 16
			198211	Pix Dynamic Scene14 Pix Dynamic Scene15
			184197	Pix Dynamic Scene 13
22	20	24		Pix Dynamic Scene12
			156169 170183	Pix Dynamic Scene11
			142155	Pix Dynamic Scene 10
			128143	Pix Dynamic Scene9
			114127	Pix Dynamic Scene8
	1	1	444 407	D' D C

15			199207	Internal Sound program 3
			208216	Internal Sound program 4
			217225	Internal Sound program 5
	13	15	226234	Internal Sound program 6
			235243	Internal Sound program 7
			244252	Internal Sound program 8
			253255	Internal Sound program 9
			200200	Color Time
		16	0255	max to min speed
			0233	Gobo Time
		17	0.255	
			0255	max to min speed
16	14	18	0.055	Pix_Dimmer
			0255	Pix_Dimmer 0%100%
17	15	19		Pix_Strobe
	10	10	0255	Pix_Strobe Speed 0%100%
18	16	20		Pix_Red
10	10	20	0255	0-100% Pix_Red dimmer from dark to bright
19	17	21		Pix_Green
19	17	21	0255	0-100% Pix_Green dimmer from dark to bright
0.0	1.0	0.0		Pix_Blue
20	18	22	0255	0-100% Pix_Blue dimmer from dark to bright
				Pix color
			00	No Function
			115	Red
			1631	Green
			3247	Blue
			4863	Red+Blue
			6479	Red+Green
			8095	Green+B l ue
			96111	Red+Blue+Green
21	19	23	112,,127	2700K
			128143	3200K
			144159	3500K
			160175	500K
			176191	5500K
			192207	6000K
			208223	6500K
			224239	7000K
			240255	8000K
		24		Pix_Macro
	20		015	No Function
			1629	Pix Dynamic Scene1
			3043	Pix Dynamic Scene2
22			4457	Pix Dynamic Scene3
			5871	Pix Dynamic Scene4
			7285	Pix Dynamic Scene5
			8699	Pix Dynamic Scene6
			100113	Pix Dynamic Scene7
				•



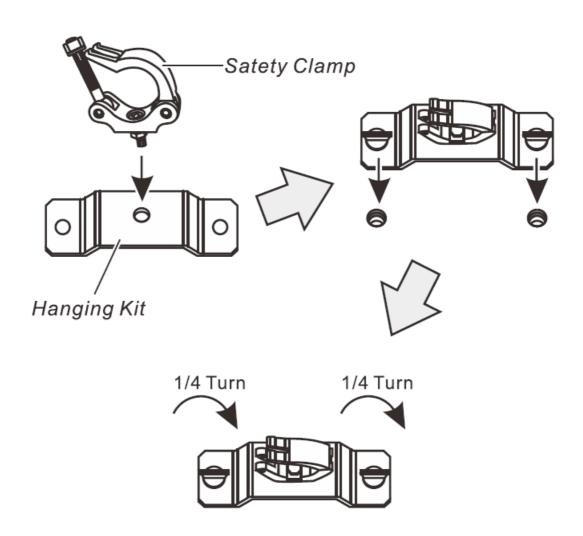


OPERATION INSTRUCTIONS

- The FOS Smart BSW 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.

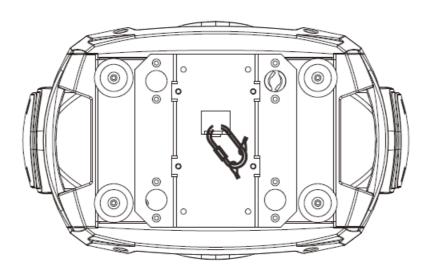
- on't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And
- don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make 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.

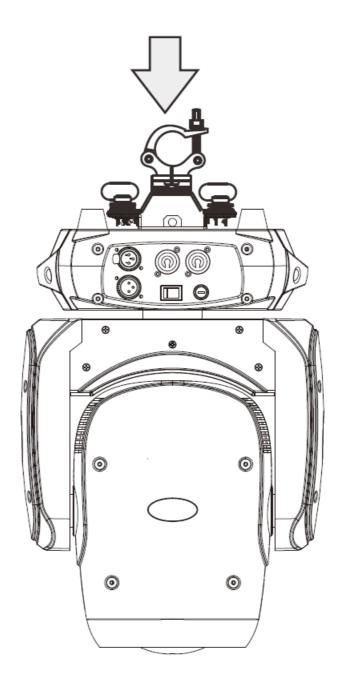
INSTALLATIONS





Safety Cable





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 ft) 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.

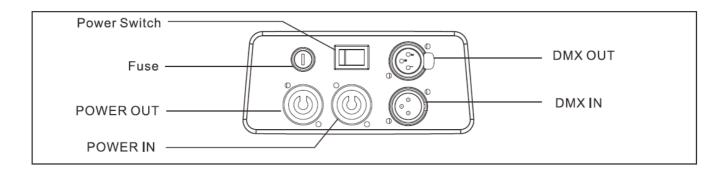
Clamp Mounting:

FOS Smart BSW provides a unique mounting bracket assembly that integrates the bottom of the base, and the

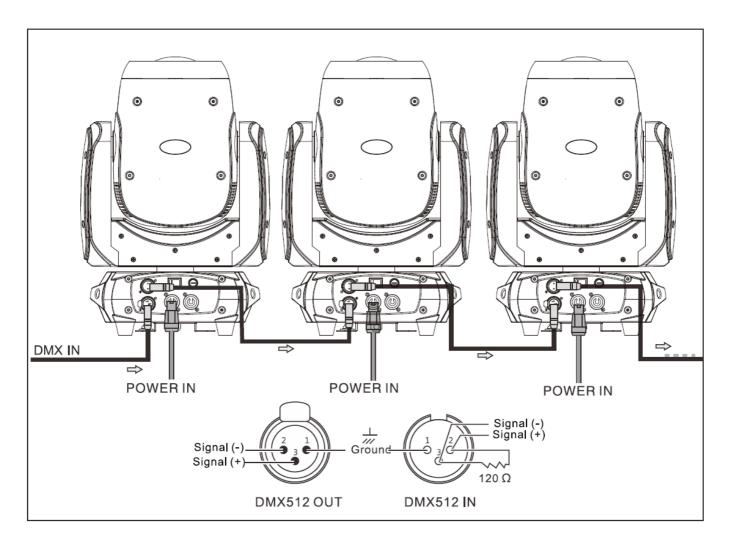
safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M1 O screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.

				Shutter
			031	Shutter closed
			3263	shutter open
			6495	Strobe effect slow to fast
	_		96127	shutter open
9	7	9	128143	Open Pulse-effect in sequences slow to fast
		10	144159	Close Pulse-effect in sequences fast to slow
			160191	shutter open
			192223	Random strobe effect slow to fast
			224255	shutter open
10	0			Dimmer
10	8		0255	Dimmer 0%100%
44	_	44		Focus
11	9	11	0255	In(near) to out(far)
40	40	40		Zoom
12	10	12	0255	In(near) to out(far)
				Rrotating prism, Prism
			05	OFF
40	44	40	6127	ON
13	11	13	128189	Forwards rotation from fast to slow
			190193	Prism rotation stop
			194255	Forwards rotation from fast to slow
				Speed pan/tile
	12	14	0225	max to min speed
14			226235	blackout by movement
			236245	blackout by all wheel changing
			246255	no function
				Special function
	13		019	No function
		15	2029	No function
			3039	No function
			4079	No function
			8084	All Motor reset
			8587	Scan motor reset
			8890	Colors motor reset
			9193	Gobo motor reset
			9496	no function
15			9799	Other motor reset
10			100108	Internal program 1
			109117	Internal program 2
			118126	Internal program 3
			127135	Internal program 4
			136144	Internal program 5
			145153	Internal program 6
			154162	Internal program 7
			163171	Internal program 8
			172180	Internal program 9
			181189	Internal Sound program 1
			190198	Internal Sound program 2

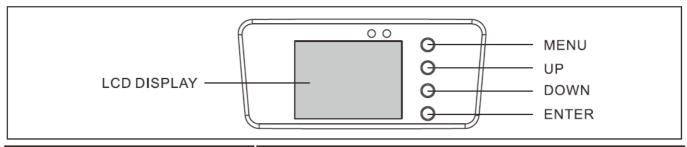
				Gobo wheel 1
			09	Open
			1019	gobo 1
			2029	gobo 2
			3039	gobo 3
			4049	gobo 4
			5059	gobo 5
		6	6069	gobo 6
6	4		7079	gobo 7
	-		8099	Gobo 1 shake slow to fast
			100119	Gobo 2 shake slow to fast
			120139	Gobo 3 shake slow to fast
			140159	Gobo 4 shake slow to fast
			160179	Gobo 5 shake slow to fast
			180199	Gobo 6 shake slow to fast
			200219	Gobo 7 shake slow to fast
			220255	Rot. gobo wheel cont. rotation slow to fast
			0.2	Gobo1 rotation
7	5	7	03	no function
'			4 <u></u> 127 128131	Forwards gobo rotation from fast to slow
			132255	Gobo rotation stop
			132233	Backwards gobo rotation from slow to fast Gobo wheel 2
			08	Open
		8	917	
			1826	gobo 1
}	}		\vdash	gobo 2
			2735	gobo 3
			3644	gobo 4
			4553	gobo 5
			5462	gobo 6
			6371	gobo 7
			7280	gobo 8
			8189	gobo 9
			9098	gobo 10
			99107	gobo 11
8	6		108116	gobo 12
			117125	Gobo 1 shake slow to fast
			126134	Gobo 2 shake slow to fast
			135143	Gobo 3 shake slow to fast
			144152	Gobo 4 shake slow to fast
			153161	Gobo 5 shake slow to fast
			162170	Gobo 6 shake slow to fast
			171179	Gobo 7 shake slow to fast
			180188	Gobo 8 shake slow to fast
			189197	Gobo 9 shake slow to fast
			198206	Gobo 10 shake slow to fast
			207215	Gobo 11 shake slow to fast
			216224	Gobo 12 shake slow to fast
			225255	Rot. gobo wheel cont. rotation slow to fast



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.



MENU OPERATIONS



ME	NU	Description			
	Dmx Address	A001~AXXX			
		23CH			
DMX	Channel Mode	21CH	21CH		
(Function Mode)		31CH			
	Auto Run	Program 1~9	Master/Alone		
	Music Run	Program 1~9	Master/Alone		
	Reset Default	Yes/No			
	Signal Set	Wire			
	Reverse Pan	(On/Off)			
SET	Reverse Tilt	(On/Off)			
(Fixture Set)	Select Pan	630° /540° /360°			
	Select Tilt	270° /180° /90°			
	Mic sensitivity	0~99%			
	OFF Signal Mode	(On/Off)			
	Fast scan	(On/Off)			
		Total Reset			
		Scan Reset			
	Reset	Color Reset			
Manu		Gobo Reset			
(Manual)		Others Reset			
(Manual)					
	Channel	PAN=XXX			
ADV	Calibration	PAN=XXX			
(Advanced) UID Code		XX XX XX XX XX XX			
(Access Code 088)					

DMX PROTOCOL

Mode/Channel		Value	Function	
23CH	21CH	31CH		
1	1			Pan
l	1 1	1	0255	PAN Movement
2		2		Pan-fine
			0 255	Fine control of Pan movement
3	2	3		Tilt
			0255	Tilt Movement
4		4		Tile-fine
			0255	Fine control of Tilt movement
				Color wheel
			09	Open / white
			1019	Color 1
			2029	Color 2
			3039	Color 3
			4049	Color 4
5	3	5	5059	Co l or 5
		5	6069	Color 6
			70 79	Co l or 7
			8089	Color 8
			90127	Color 9
			128189	Forwards rainbow effect from fast to slow
			190193	Color rotation stop
			194 255	Backwards rainbow effect from slow to fast
				Color wheel(Half Color Mode)
			04	Open / white
			5 9	white+Color 1
		5	1014	Color 1
			15 19	Color 1+Color 2
			2024	Color 2
	3		25 29	Color 2+Color 3
			3034	Color 3
			3539	Color 3+Color 4
			4044	Color 4
			4549	Color 4+Color 5
5			50 54	Co l or 5
			55 59	Color 5+Color 6
			6064	Color 6
			6569	Color 6+Color 7
			7074	Co l or 7
			75 79	Color 8+Color 8
			8084	Color 8
			85 89	Color 9+Color 9
			90127	Color 9
			128189	Forwards rainbow effect from fast to slow
			190193	Color rotation stop
			194255	Backwards rainbow effect from slow to fast



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Manuals+,