



10. 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.

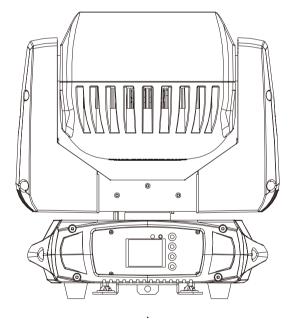
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

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.



FOS Scorpio Wash



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



1.Safety instructions

Thank you for choosing our FOS Scorpio Wash . 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 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)!



58				Red in Pixel 6
30			0255	White in pixel 6 saturation control (0-100%)
59				Green in pixel 6
39			0255	Green in pixel 6 saturation control(0-100%)
60				Blue in pixel 6
60			0255	Blue in pixel 6 saturation control(0-100%)
61				White in pixel 6
01			0255	White in pixel 6 saturation control(0-100%)
62				Red in Pixel 7
62			0255	White in pixel 7 saturation control (0-100%)
				Green in pixel 7
63			0255	Green in pixel 7 saturation control(0-100%)
64				Blue in pixel 7
04	0255		0255	Blue in pixel 7 saturation control(0-100%)
65				White in pixel 7
00			0255	White in pixel 7 saturation control(0-100%)
		26		Special function
			019	No function
			2029	No function
	38		3039	No function
			4079	No function
			8089	All Motor reset
			9094	SCAN Motor Reset
66			9599	ZOOM Motor Reset
00	30		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

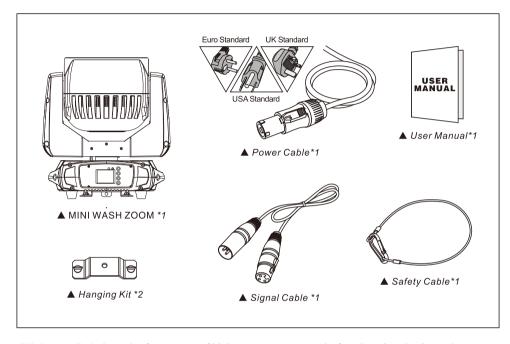


34			Pix_Background dimmer
	34		
		0255	Pix_Expand Patterns Background dimmer 0 – 100%.
			Pix_Background Red
35	35		
		0255	Pix_Expand Patterns Background Red 0 – 100%.
			Pix Background Green
36	36		
		0255	Pix Expand Patterns Background Green 0 – 100%.
			Pix Background Blue
37	37		
		0255	Pix_Expand Patterns Background Blue 0 – 100%.
			Red in Pixel 1
38		0,,255	Red in pixel 1 saturation control (0-100%)
			Green in Pixel 1
39		0,,255	Green in pixel 1 saturation control (0-100%)
		5.1250	Blue in Pixel 1
40		0255	Blue in pixel 1 saturation control(0-100%)
		0.,200	White in pixel 1
41		0255	White in pixel 1 saturation control(0-100%)
		0,,200	Red in pixel 2
42		0,,255	Red in pixel 2 saturation control(0-100%)
		0200	Green in pixel 2
43		0255	Green in pixel 2 saturation control(0-100%)
		0255	Blue in pixel 2
44		0255	Blue in pixel 2 saturation control(0-100%)
		0200	White in pixel 2
45		0255	White in pixel 2 saturation control(0-100%)
		0200	Red in Pixel 3
46		0255	Red in pixel 3 saturation control (0-100%)
		0200	Green in pixel 3
47		0255	Green in pixel 3 saturation control(0-100%
		0233	Blue in pixel 3
48		0255	Blue in pixel 3 saturation control(0-100%)
		0255	White in pixel 3 White in pixel 3
49		0255	· · · · · · · · · · · · · · · · · · ·
<u> </u>		0255	White in pixel 3 saturation control(0-100%) Red in Pixel 4
50		0,,255	Red in Pixel 4 Red in pixel 4 saturation control (0-100%)
		U∠55	1
51		0255	Green in pixel 4 Green in pixel 4 saturation control(0-100%)
		U∠55	Blue in pixel 4
52		0.055	<u>'</u>
		0255	Blue in pixel 4 saturation control(0-100%)
53		0.055	White in pixel 4
-		0255	White in pixel 4 saturation control(0-100%)
54		0.055	Red in Pixel 5
		0255	White in pixel 5 saturation control (0-100%)
55		2 255	Green in pixel 5
		0255	Green in pixel 5 saturation control(0-100%)
56		0.055	Blue in pixel 5
		0255	Blue in pixel 5 saturation control(0-100%)
57			White in pixel 5
		0255	White in pixel 5 saturation control(0-100%)



2.UNPACKING

FOS Scorpio Wash adopts 7*60W 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:



FOS Scorpio Wash 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.



3.TECHNICAL INFORMATION

SPECIFICATIONS:

- Input Voltage:AC90-260V 50/60Hz
- LED Quantities: 7x60w RGBW LEDs & 39 pcsx0.2 RGB SMD DMX recorder and edit function integrated
- Control Signal:DMX512, master-slave and sound activated or auto operation
- Control Channel: 66/38/26 DMX channels USITT DMX-512
- Power Consumption: 450W
- Dimensions: 336(D)*224(W)*372(H)mm
- Packing Dimensions:430(D)*320(W)*490(H)mm
- Net Weight: 10kgs
- Gross Weight: 12.65kgs

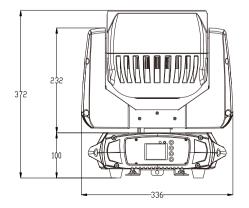
FEATURES:

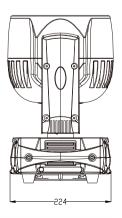
- 50000 hours life span and low power
- CTB and CTO, linear colour temperature 2700K -8000K changable
- 8/16 bit smooth and precise resolution for PAN/TILT movement
- Scan position memory, auto reposition after unexpected movement
- ■6°-60°Smooth electronic linear zoom
- ■Built-in running programs
- Built-in color and graphic effect macros
- 0-100% Linear LED dimmer
- 1-25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- ■Per each LED controllable individually

- DMX512, master-slave, and sound activated controllable or auto operation
- High resolution graphic LCD display
- POWERCON connector IN/OUT
- 3-Pin XLR connectors IN/OUT
- Constant temperature readout and management
- function
- -35°C ~ 45°C max ambient temperature
- IP20 protection rating
- Specific high precision optic lens
- Variable direction rotating front lens
- 6°-60°Smooth electronic linear zoom
- Brilliant hard beam effects at 6°
- Pure and even wash coverage effects at 60°
- Petal-like micro beam effects
- Pixel patterning macro effects
- Built-in running programs
- Built-in color and graphic effect macros

FUNCTION:

- Scan position memory, auto reposition after unexpected movement
- Built-in running programs
- Built-in color and graphic effect macros
- Preset variable/random strobe and dimming pulse effect
- DMX recorder and edit function integrated







PCITIC	nogles			FOS Scorpio Wash Product Datasheet
			8095	Green+Blue
			96111	Red+Blue+Green
			112127	2700K
			128143	3200K
			144159	3500K
29	29	23	160175	5000K
			176191	5500K
			192207	6000K
			208223	6500K
			224239	7000K
			240255	8000K
				Pix_Macro
			015	No Function
			1629	Pix Dynamic Scene1
			3043	Pix Dynamic Scene2
			4457	Pix Dynamic Scene3
			5871	Pix Dynamic Scene4
		24	7285	Pix Dynamic Scene5
			8699	Pix Dynamic Scene6
			100113	Pix Dynamic Scene7
30	30		114127	Pix Dynamic Scene8
			128143	Pix Dynamic Scene9
			142155	Pix Dynamic Scene10
			156169	Pix Dynamic Scene11
			170183	Pix Dynamic Scene12
			184197	Pix Dynamic Scene13
			198211	Pix Dynamic Scene14
			212225	Pix Dynamic Scene15
			226239	Pix Dynamic Scene16
			240255	Pix Dynamic Scene17
				Pix_Macro_Speed
31	31	25	0255	Slow to Fast
		32		Expand Patterns
			015	No Function
			16.29	Pix Dynamic Scene1
			3043	Pix Dynamic Scene2
	32		4457	Pix Dynamic Scene3
			5871	Pix Dynamic Scene4
			7285	Pix Dynamic Scene5
			8699	Pix Dynamic Scene6
			100113	Pix Dynamic Scene7
32			114127	Pix Dynamic Scene8
32			128.143	Pix Dynamic Scene9
			142155 156169	Pix Dynamic Scene10 Pix Dynamic Scene11
			170183	Pix Dynamic Scene12
			184197	Pix Dynamic Scene 13
			198211	Pix Dynamic Scene14
			212225	Pix Dynamic Scene 15
			226239	Pix Dynamic Scene16
			240255	Pix Dynamic Scene17
				Pix_Foreground dimmer
33	33			Pix_Expand Patterns Foreground dimmer 0 – 100%.
				(Foreground Color Share with "Pix_Macro"Channel)
			0255	



27

28

29

28

29

22

0..255

0..255

0..0

1..15

16..31

32.47

48..63

64..79

echnol	ogies			FOS Scorpio Wash Product Datash						
			T	1						
			024031	static scene4						
			032039	static scene5						
			040047	static scene6						
			048055	static scene7						
			056063	static scene8						
			064071	static scene9						
			072079	static scene10						
			080087	static scene11						
			088095	static scene12						
			096103	static scene13						
			104111	static scene14						
			112119	static scene15						
			120127	static scene16						
			128135	static scene17						
			136143	static scene18						
			144151	static scene19						
			152159	static scene20						
23	23		160167	static scene21						
			168175	static scene22						
			176183	static scene23						
			184191	static scene24						
			192199	static scene25						
			200207	static scene26						
			208215	static scene27						
			216, 223	static scene28						
			224231	static scene29						
			232, 239	static scene30						
			240247	static scene31						
			248, 255	static scene32						
										Dynamic Patterns
								(If channel Patterns is in the interval 032 – 255)		
						000023	No function			
			024137	Forward speed from zero speed to fast speed						
			138141	Stop movement						
			142255	Reverse speed from zero speed to fast speed						
				Pix Dimmer						
24	24	24 18	0255	Pix_Dimmer 0%100%						
		1	1	Pix Strobe						
25	25	25 19	0255	Pix Strobe Speed 0%100%						
		1	0200	Pix_Red						
26	26	20	0255	0-100% Pix Red dimmer from dark to bright						
		+	0255	Pix Green						
27	27	21		FIX_Green						

0-100% Pix Green dimmer from dark to bright

Pix Blue

0-100% Pix Blue dimmer from dark to bright

Pix color

No Function

Red

Green

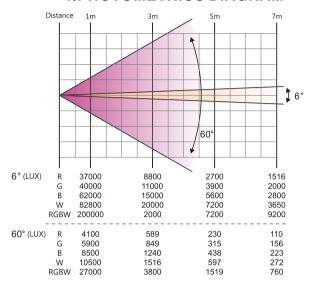
Blue

Red+Blue

Red+Green



4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- FOS Scorpio Wash is for wash 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.



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.).

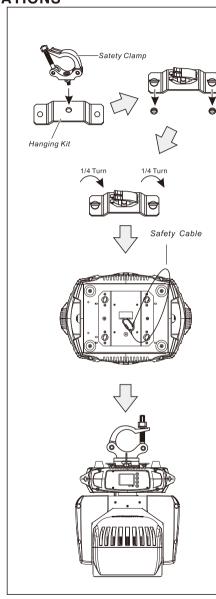
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

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.

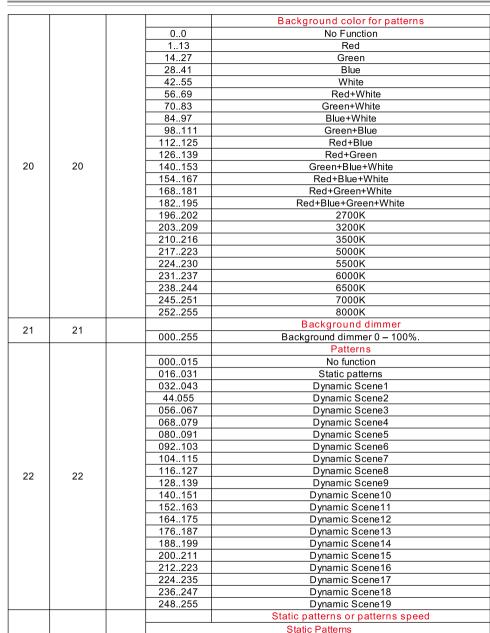
Clamp Mounting:

FOS Scorpio Wash 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 .



INSTALLATION DIAGRAM

05



(If channel Patterns is in the interval 016 – 031)

static scene1

static scene2

static scene3

10

23

23

000..007

008..015

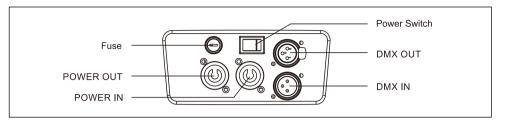
016..023



			7083	Green+White
			8497	Blue+White
			98111	
				Green+Blue
			112125	Red+Blue
			126139	Red+Green
			140153	Green+Blue+White
			154167	Red+Blue+White
			168181	Red+Green+White
15	15	15	182195	Red+Blue+Green+White
'0	15		196202	2700K
			203209	3200K
			210216	3500K
			217223	5000K
			224230	5500K
			231237	6000K
			238244	6500K
			245251	7000K
			252255	8000K
				Color Temp
			015	No Function
			1645	Below 3200K
			4675	3200K - 3500K
			76105	3500K - 5000K
16	16	16	106135	5000K - 5500K
			136165	5500K - 6000K
			166195	6000K - 6500K
			196225	6500K - 7000K
				7000K - 7000K
			226255	Visual Tungsten Lamp
17	17	17	015	No Function
''	17	17	16255	Tungsten lamp effect is gradually enhanced
			10233	Foreground color for patterns
			00	No Function
	18		113	Red
1 40			1427	Green
18			28.41	Blue
			4255	White
			5669	Red+White
			7083	Green+White
			8497	Blue+White
			98111	Green+Blue
			112125	Red+Blue
			126139	Red+Green
	18		140153	Green+Blue+White
			154167	Red+Blue+White
			168181	Red+Green+White
			182195	Red+Blue+Green+White
18			196202	2700K
'0			203209	3200K
			040 040	3500K
			210216	3300K
			217223	5000K
			217223	5000K
			217223 224230	5000K 5500K
			217223 224230 231237	5000K 5500K 6000K

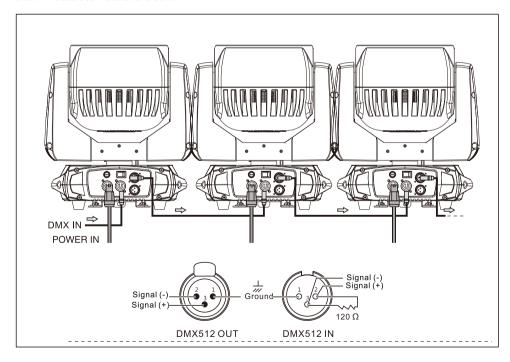


7.CONTROL CONNECTION



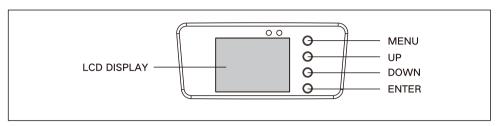
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors.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









	Description			
	Dmx Address	A001~AXXX		DMX Address
		38CH		38 Channel Mode
DMX	Channel Mode	26CH		26 Channel Mode
(Function Mode)		66CH		66 Channel Mode
	Auto Run	Program 1~9	Master/Alone	Auto Run
	Music Run	Program 1~9	Master/Alone	Sound Control
	Reset Default	Yes/No		Reset Default
	Signal Set	Wire		Wire DMX
	Reverse Pan	(On/Off)		Reverse Pan
	Reverse Tilt	(On/Off)		Reverse Tilt
SET	Select Pan	630°/540°/360°		Select Pan
(Fixture Set)	Select Tilt	270°/180°/90°		Select Tilt
	Mic sensitivity	0~99%		MIC Sensitivity
	OFF Signal Mode	(On/Off)		OFF at Original Status and ON at Reset Status When No DMX
Manu (Manual)	Reset	Total Reset Scan Reset Zoom Reset		Reset Total Reset Pan/Tilt Reset Zoom
	Channel	PAN=XXX		Manual Channel Control
ADV	Calibration	PAN=XXX		Calibration
(Advanced)				UID Code
(Access Code 088)				

07



9.DMX PROTOCOL

Mode/Channel		Value	Function	
66CH 38CH 26CH				
				Pan
1	1 1	1 1	0255	PAN Movement
	2 2			Pan-fine
2		2	0255	Fine control of Pan movement
				Tilt
3	3	3	0255	Tilt Movement
4	4			Tile-fine
4	4	4	0255	Fine control of Tilt movement
				Speed pan/tile
_	_	_	0225	max to min speed
5	5	5	226235	blackout by movement
			236255	no function
6	6	_		Dimmer
0	ь	6	0255	Dimmer 0%100%
				Shutter
			031	Shutter closed
			3263	shutter open
			6495	Strobe effect slow to fast
7	7	7	96127	shutter open
			128159 Pulse-effect in sequences slow to fast	
			160191 shutter open	
			192223	Random strobe effect slow to fast
			224255	shutter open
8	8	8		Red
			0255	0-100% Red dimmer from dark to bright
9	9	9		Green
			0255	0-100% Green dimmer from dark to bright
10	10	10		Blue
			0255	0-100% Blue dimmer from dark to bright
11	11	11		White
			0255	0-100% White dimmer from dark to bright
12	12	12		Zoom
		12	0255	In(near) to out(far)
				Zoom Rotation
	13	13	015	Zoom rotation stop
13			1663	shake slow to fast(width by Zoom Angle)
			64156	Forwards rotation from fast to slow
			157162	Zoom rotation stop
			163255	Backwards rotation from slow to fast
14	14	14		Zoom Angle
		15	0255	Zoom Angle(0°~60°)
				Virtual color
			00	No Function
,_			113	Red
15	15		1427	Green
			2841	Blue
			4255	White
		L	5669	Red+White