Color IMAGINATION
the POWER of DREAM

M382
MASTER 382

IP20 t_a40°C $_c$100°C

User Manual
KEEP THIS MANUAL FOR FUTURE NEEDS

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1 SAFETY INSTRUCTIONS

CAUTION

Becareful with your operations.With a dangerous voltage you cansuffer a dangerous electric shock when touching wires!

This device has left the factory in 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 the 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 temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

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.

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

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

8 MAINTENANCE AND CLEANING

The following points have to be considered during the 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 on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue 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

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.

There are no serviceable parts inside the device. Please refer to the instructions under “Installation instructions”.

Should you need any spare parts, please order genuine parts from your local dealer.

		0-209	None
		210-215	Reset XY motor over 3 second
		216-219	None
		220-235	Reset Effect motor over 3 second
		236-239	None
		240-255	Reset fxiture over 3 second
[CH20]	LED.Eft	0-255	
[CH21]	LED.Spd	0-255	

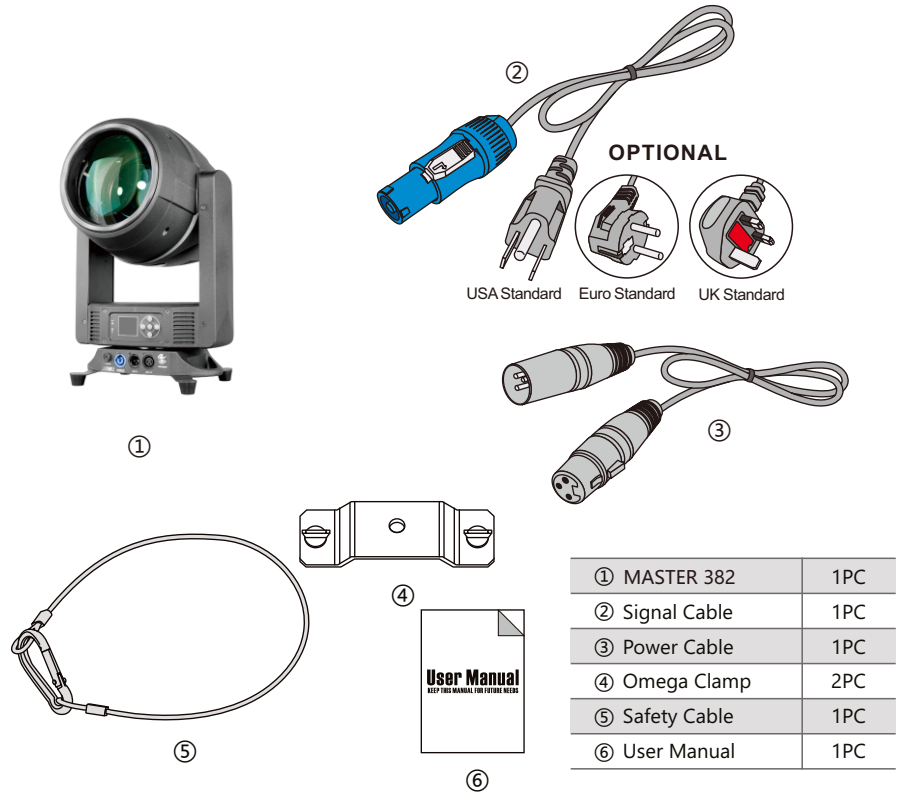
2 UNPACKING

1.8° Angle, Ø160mm Front Lens,Front Neon Ring, 2 Prism Wheels, Continuous PAN/TILT

The MASTER 382 is an ultra compact and light weight stylish moving head beam light with an OSRAM SIRIUS HRI 382W lamp, integrated with a set of unique high resolution optical system (160cm front lens).

The fixture features 1.8°beam angle which helps to provide ultra long throw solid beam effect. The front ring strip light delivers a magic lighting effect created by 30*0.2W 3-IN-1 SMD RGB LEDs. The MASTER 382 is designed with a range of effects: 13 static gobos, 13 dichroic colors, 6-Color Wheel, 2 prism wheels, frost, focus, etc. It provides 360°continuous fast and smooth PAN/TILT movement with variable speed which delivers even more vivid visual effect to the show. The fixture supports DMX, RDM (Remote Device Management).

It's fast and quiet operation moving head beam. It's a perfect option for indoor application like large scale live concerts, TV productions, road shows, conference halls, clubs, etc.



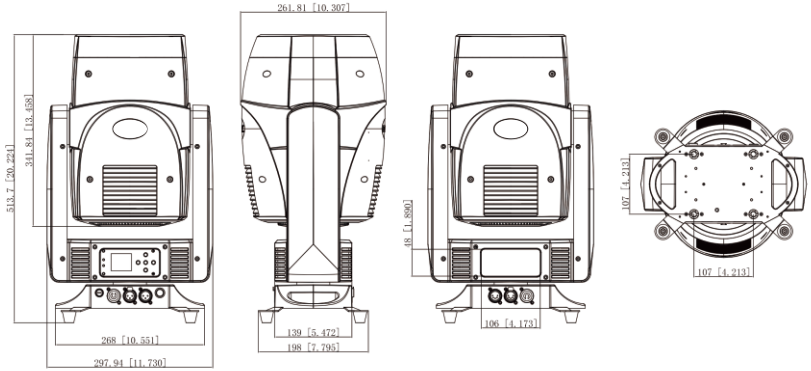
① MASTER 382	1PC
② Signal Cable	1PC
③ Power Cable	1PC
④ Omega Clamp	2PC
⑤ Safety Cable	1PC
⑥ User Manual	1PC

3 FEATURES & SPECIFICATIONS

1*OSRAM SIRIUS HRI 382W Lamp
30*0.2W 3-IN-1 RGB LEDs
Color Temperature: 7600K
CRI: ≥85
Flicker free operation for broadcast TV and FILM
Life Span: 2500H
PAN: 2 modes
1. 360°Continuous movement
2. 540°(8/16 bit)
TILT: 2 modes
1. 360°Continuous movement
2. 270°(8/16 bit)
Fast, quiet, smooth and precise 2-Phase motors
Smooth, fast and precise resolution for PAN/TILT movement with low noise operation
Scan position memory, auto reposition after unexpected movement
PAN/TILT reversible
1 Color wheel with 13 dichroic colors plus open
Variable direction rainbow effect with speed adjustable
6-Color wheel with variable direction and speed control
1- ring strip effect with different built-in macro effects (variable speed control)
1 Static gobo wheel with 13 gobos plus open
2 Prism wheel design
Prism 1: 3 different prisms, 5-Facet linear prism/8-Facet circular prism/4+8+16-facet circular prism with variable speed and direction
Prism 2: 3 different prisms, 6-Facet linear prism/16-facet circular prism/8+16-facet circular prism with variable speed and direction
Prism indexing
Prism overlay (prism morphing)
0-25Hz shutter/strobe effect with variable speed
Preset variable/random strobe and dimming pulse effect
Even and soft coverage
0-100% Smooth linear dimming
21 DMX channels USITT DMX-512
DMX512, master-slave, or auto operation
DMX recorder and edit function integrated
RDM available (Remote Device Management)
Art-NET (Optional)
Wireless receiver system built-in (Optional)
Shielded input signal protection for stable signal without interference
RJ45 etherCON IN/OUT (Optional with Art-Net)
3-Pin and 5-pin XLR DMX connectors IN/OUT
Electronic ballast: PT-SIRIUS 260W
Electronic supply with active PFC
AC100-240V 50/60Hz
PowerCON IN/ OUT with fuse
400W Power consumption
-25℃ to 45℃ ambient temperature
IP20 protection rating

		135-190	Rotate forward (slow to fast)
		191-195	Shake slow to fast Gobo1
		196-200	Shake slow to fast Gobo2
		201-205	Shake slow to fast Gobo3
		206-210	Shake slow to fast Gobo4
		211-215	Shake slow to fast Gobo5
		216-220	Shake slow to fast Gobo6
		221-225	Shake slow to fast Gobo7
		226-230	Shake slow to fast Gobo8
		231-235	Shake slow to fast Gobo9
		236-240	Shake slow to fast Gobo10
		241-245	Shake slow to fast Gobo11
		246-250	Shake slow to fast Gobo12
		251-255	Shake slow to fast Gobo13
[CH13]	Prism1		
		0-63	None
		64-127	Inert prism1
		128-191	Inert prism1
		192-255	Inert prism1
[CH14]	Prism1.R		
		0-127	0-360(degree)
		128-190	Rotate forward (fast to slow)
		191-192	Stop
		193-255	Rotate reverse (slow to fast)
[CH15]	Prism2		
		0-63	None
		64-127	Insert prism2
		128-191	Insert prism2
		192-255	Insert prism2
[CH16]	Prism2.R		
		0-127	0-360(degree)
		128-190	Rotate reverse (fast to slow)
		191-192	Stop
		193-255	Rotate forward (slow to fast)
[CH17]	7Color		
		0-127	None
		128-255	Insert colorful
[CH18]	Focus	0-255	Far to near
[CH19]	Reset		

		40-44	Colour4
		45-49	Colour4+Colour5
		50-54	Colour5
		55-59	Colour5+Colour6
		60-64	Colour6
		65-69	Colour6+Colour7
		70-74	Colour7
		75-79	Colour7+Colour8
		80-84	Colour8
		85-89	Colour8+Colour9
		90-94	Colour9
		95-99	Colour9+Colour10
		100-104	Colour10
		105-109	Colour10+Colour11
		110-114	Colour11
		115-119	Colour11+Colour12
		120-124	Colour12
		125-129	Colour12+Colour13
		130-134	Colour13
		135-139	Colour13+Colour14
		140-200	Rotate forward (fast to slow)
		201-255	Rotate reverse (slow to fast)
[CH12]	Gobo		
		0-4	White
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-129	Rotate reverse (fast to slow)
		130-134	White

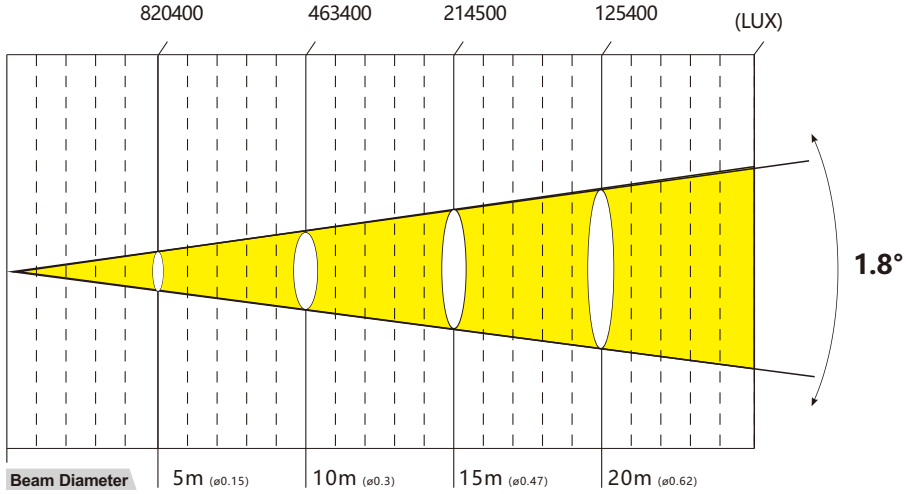


Static gobo

Color wheel

4 PHOTOMETRIC DATA

Photometric Beam Angle Data *1.8°Beam Angle LUX × 0.0929=FC*

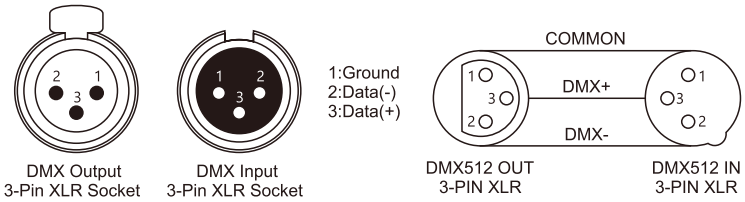


5 DMX-512 CONTROL CONNECTIONS

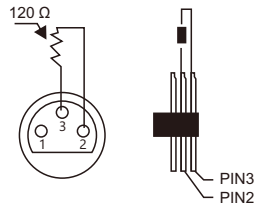
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the archite-ctural. You can chain multiple

Archite-ctural 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 a 120 Ω 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.

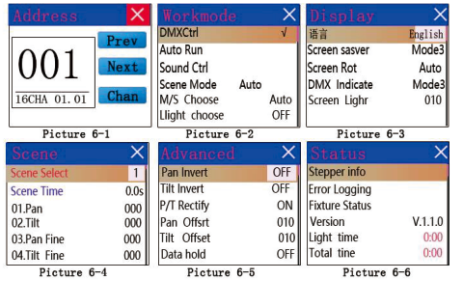


7 DMX CHANNELS

LIST-1	NAME	VALUE	BRIEF
[CH1]	X-Free	0-255	
		0-127	None
		128-191	Rotate reverse (fast to slow)
		192-255	Rotate forward (slow to fast)
[CH2]	Y-Free	0-255	
		0-127	None
		128-191	Rotate reverse (fast to slow)
		192-255	Rotate forward (slow to fast)
[CH3]	Pan	0-255	0-540(degree)
[CH4]	Tilt	0-255	0-270(degree)
[CH5]	Pan Fine	0-255	0-2(degree)
[CH6]	Tilt Fine	0-255	0-1(degree)
[CH7]	PT Spd	0-255	Fast to slow
[CH8]	Frost		
		0-127	None
		128-255	Insert frost
[CH9]	Strobe		
		0-3	Dark
		4-127	Pluse strobe slow to fast
		128-191	Fade strobe slow to fast
		192-251	Rand strobe slow to fast
		252-255	Open
[CH10]	Dimmer	0-255	0-100% dimmer
[CH11]	Colour		
		0-4	White
		5-9	White+colour1
		10-14	Colour1
		15-19	Colour1+Colour2
		20-24	Colour2
		25-29	Colour2+Colour3
		30-34	Colour3
		35-39	Colour3+Colour4

	PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
Error Logging	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
	Error Logging	Total number of failures detected after power on
	12：:03	The time of power failure when the fault occurs is in minutes.
	Hall error	The effective hall signal is not detected when the motor is reset
	Hall short	When the motor is reset, the hall signal of the motor is always effective
	Opti error	No effective optocoupler signal is detected when the motor is reset.
	Lose stop	The corresponding motor is out of step during its operation.
	Hit	Striking the positioning rod when the motor is reset
	Lamp error	Lamp explosion accident
	NTC error	The temperature sensor signal is abnormal
	Fan error	The main fan is not working properly.
Fixture status	Displays the critical state data of the current fixture for reference.	
	Communication prec	0~100%, Communication quality of internal data link of lamps and lanterns
	Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
	Light Temperature	Show the temperature of the current light source, "---" means no detection.
	Panel Temperatrue	Displays the temperature of the current display panel or the ambient temperature.
	Sensor1 Temperatrue	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
Version	Display the information and version of the current fixtrue, important reference for after sales maintenance.	
	Device	The name of the fixture is the same as the equipment information of RDM.
	Model	The type of fixture is the same as the model information of RDM.
	Panel	Firmware version and serial number of display panel
	Main Board	Firmware version and serial number of mother board 1
Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time	
Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.	

6 MENU OPERATIONS



operating mode

DMX Ctrl	DMX mode, receive DMX signal, RDM signal	
Auto Run	Fixture run automatically according to built-in programs	
Sound Ctrl	When the fixture detects a strong sound, the fixture automatically runs a scene according to the built-in program, otherwise it will stay the last scene	
Scene Mode 01	runs in a set scebe, which supports most of the custom editing of 10 scenes.	
	1~10	outputs the specified scene
	Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore
M/S Choose	Master and slave selection, non-DMX mode takes effect, select the mode of data output, fixture detect DMX cable state automatic switch output, prevent data conflicts	
	Master	fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.
	Slave	ixture runs built-in program and do not output data
	Auto	If DMX has no signal, the fxiture will runs built-in program. Otherwise, the fixture will run in DMX Mode(follow DMX).
Lamp switch	(Lamp light source) pop-up confirmation dialog box, select "SURE" to confirm the current operation, turn on or off the lamp, switch time interval limited to 30 seconds	
	Off	the current lamp output is off
	On	The current lamp output is turned on

Scene mode applies to a single or a small number of fixture, just output a fixed scene, or need to run a simple program, you no need connect to the console, in the scene page can be edited.

If the light source is lamp, wait for 10 minutes before turning off the lamp.

Set display

The fixture support Chinese and English, invert display and so on. Enter the corresponding parameter settings as shown in Figure 6-3. The specific menu contents are as follows:

DISPLAY SETTING

Language	display language settings	
	English	English display
	Chinese	Chinese display

Screen saver	Set screen 30 seconds without operation, the screen's display content or method.	
	OFF	Keep the last operation page
	Mode1	Black
	Mode2	Black screen, showing the address code of the current fixture in the lower left corner.
	Mode3	Display trademark information, address code and operation mode.
Screen Rot	Set the display direction of the screen.	
	OFF	No reverse display
	ON	Reverse display
DMX Indicate	Set the indication mode of DMX signal indicator.	
	Mode1	When signal is bright, no signal is off.
	Mode2	When signal is off, no signal is bright.
	Mode3	When signal is flash, no signal is off.
Screen Lihgt	Set the screen backlight for 10 seconds without operation	
	1~10	10

Scene

Enter the page shown in Figure 6-4, and the fixture enters the scene editing mode. Under this page, the fixture does not receive DMX console data, and the edited data will effect on the fixture immediately.

The content of the page depends on the currently selected channel mode, and the channel content and order displayed are consistent with the fixture channel table. Through this page, you can edit 10 scenes, as shown in the following table:

SCENE MODE

Scene Select	Select the current operation scenario.	
	1~10	The 10 scenes sets the format
Scene Time	Sets the retention time of the current scene when it is automatic, unit in 0.1 seconds.	
	0	The current scene is not output in automatic scene output.
	1-255	0..1s-25.5s
1. PAN	0-255	Set up the data of each channel, and the contents and order of the display are one-to-one correspondence with the channel list of fixture.
……	0-255	
……	0-255	
N. Function	0-255	

If the reset channel in the scene edits the effective reset data, the fixture will reset, but after reset, the corresponding reset channel value will automatically set 0, preventing multiple consecutive resets.

Looking at this page, you can get the current channel table slot of the fixture. For specific channel data, please refer to the detailed channel description.

Set light run parameter

Enter the page shown in Figure 6-5, adjust the field parameters of fixture, facilitate the installation of fixture, etc.

ADVANCED SETTING

Pan Invert	Set the rotation direction of PAN	
	OFF	
	ON	

Tilt Invert	Set the rotation direction of TILT	
	OFF	
	ON	
P/T Rectify	Setting up fixture to detect XY lost step and correct	
	OFF	Uncorrected position after out of step
	ON	After losing step, the position is automatically corrected and the out of step fault is recorded.
Pan Offset	Setting the zero point of the PAN of the fixture	
	4-150	
Tilt Offset	Setting the zero point of the TILT of the fixture	
	4-48	
Data hold	When the fixture is not equipped with DMX signal, the output state of the fixture	
	OFF	No signal, so the motor and light source return to the position and state when reset is completed.
	ON	No signal, keep the last frame DMX data output.
Lamp mode	(lamp light source) Set the way to first open the lamp after power up	
	Power on	Turn on the lamp at power up and reset the lamp after 30 seconds.
	After reset	Reset the fixture after 3 seconds when power-on, and turn on the lamp after reset.
	Manual	After reset, manually turn on the lamp through the menu or console.
Reset	Reset fixture	
Factory Setting	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	

When choosing power-on mode, the lamp will wait for 30 seconds after power-on, let the lamp fully start, internal voltage is stable enough, then start the reset program, if the field capacity is stable, recommend power-on mode.

When the fixture can not calibrate the position, please check whether the "P/T Rectify" is turned off.

When the signal is unplugged, check the Data Hold setting first if the position of the fixture is not output as expected.

When setting the XY offset, after setting up, please control XY with the maximum stroke first to check that XY will not bump into the positioning rod or shell.

Status and information

Entering the page shown in Figure 6-6, you can view the information and real-time status of the fixture to get their usage status. If the fixture need customer service, please provide the status information displayed on the page as a basis for judgment, as shown in the following table:

STATUS INFORMATION

Stepper info	Display information status of all motors and signals in fixture.	
	Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
	Status	Display motor reset status
	PAN	Display real-time position value of PAN optocoupler feedback
	TILT	Display real-time position value of TILT optocoupler feedback