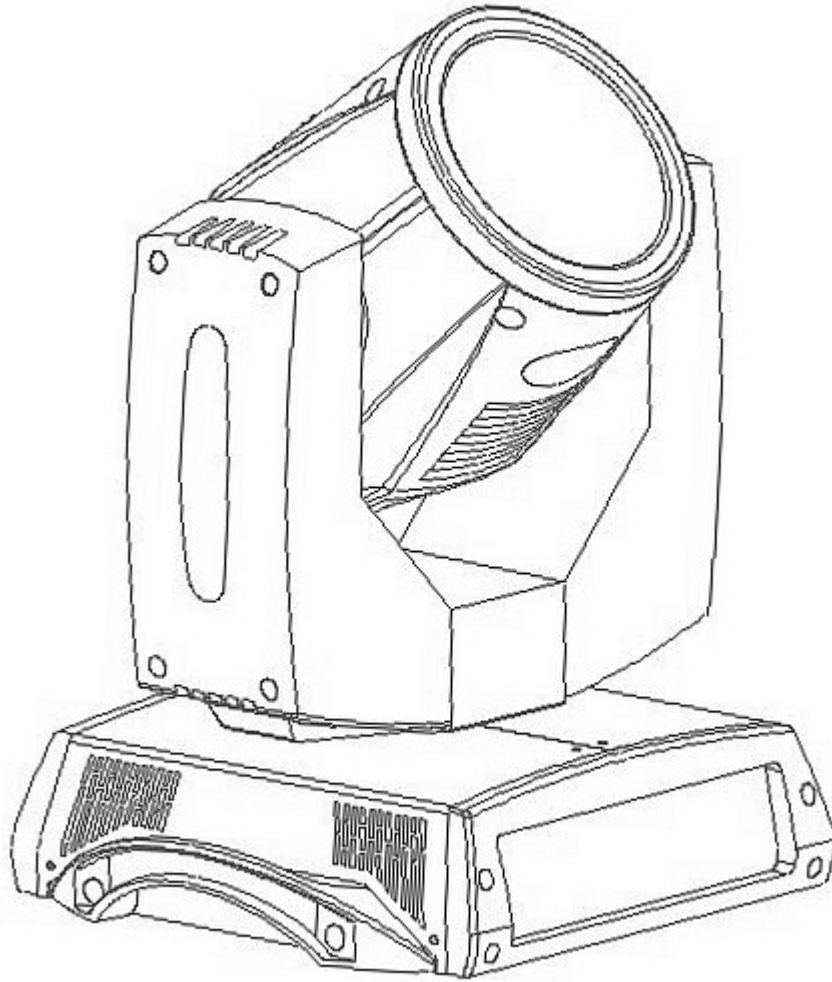


# **SHARPY BEAM MOVING HEAD LIGHT**



## **USER MANUAL**



**KEEP THIS MANUAL FOR FUTURE NEEDS**

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Thank you for your patronage. We are confident that our excellent products and service can satisfy you. For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



**CAUTION!**

Keep this device away from rain and moisture!



**CAUTION!**

Unplug mains lead before opening the housing.

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

- be qualified
- follow carefully the instructions of this manual

## **INTRODUCTION:**

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power cable
2. One 3pin DMX cable
3. Two omega clamps
4. One user manual

(Flight case, Safety cable and Clamps are optional, please contact your dealer)

Please check carefully that there is no damage caused by transportation. Should there be any, please consult your dealer and don't install this device.

## **GENERAL GUIDELINES**

This device is a lighting effect for a professional use on stages, in discotheques, theatres, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in the last page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

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

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. 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.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, lamp explosion, crash, etc.

## SAFETY INSTRUCTIONS



### CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer 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.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.

2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

3. Using lamp, the change rate of power voltage should be within  $\pm 10\%$ , if the voltage is too high, it will shorten the light's life; if it's not enough, the lamp will be dark.

4. Please restart it after turning off light for 20 minutes until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.

### ▲ 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 temperatures.

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.

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.

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.



**CAUTION!**

Never touch the device during operation!  
The housing may heat up!



**CAUTION!**

Never look directly into the light source,  
As sensitive persons may suffer an epileptic shock.

**Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.**

## **INSTALLATION INSTRUCTIONS**



**CAUTION!**

Only install the lamp with the device unplugged from the mains.



**CAUTION!**

The lamp has to be replaced when it is damaged or deformed.

Before replacing the lamp let the lamp cool down, because during operation, the lamp can reach very high temperature.

During the installation of halogen lamps do not touch the glass bulbs bare handed. Always use a cloth to handle the lamps during insertion and removal.

Do not install lamps with a higher wattage. They generate higher temperatures than which the device was designed for.

## CLEANING AND MAINTENANCE

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

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 installations 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) To make sure the smooth gobo rotation, we suggest adding proper lube to the wheel each three month, avoiding the excessive lube splashes during the gobo rotating,
- 4) 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 except for the lamp. Please refer to the instructions under "Installation instructions".

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

## **TECHNICAL PARAMETERS**

### **POWER SUPPLIE**

Input power: 110-240V 50/60 Hz

### **LAMP SOURCE**

Discharge lamp with a short arc burner in a reflector system

- Type: Optional YODN MSD Platinum R5 200W or R7 230W  
Philips UHP 189W or Philips MSD Platinum 5R 189W  
Osram Siruis HRI 230W
- Output Lamp power: 200W/230W
- Color temperature: 8,500 K
- Average life: 2,000 h

### **OPTICS**

3-lens optical group combination

Focus: electronic

Light output at 20 meters (65 feet): 59,760 lux

### **COLOR SYSTEM**

Interchangeable color wheel with 14 colors + open

### **EFFECTS SECTION**

Interchangeable gobo wheel with 17 fixed gobos + open

High speed shake effect

8-face rotating prism

Frost filter

Mechanical shutter and adjustable speed strobe effect

Mechanical dimmer

### **CONTROL AND PROGRAMMING**

16/20 DMX 512 control channels

Display: LED red/blue display or LCD display

Pan/Tilt Resolution: 16 bit

Movement control: vectorial

DMX signal connection: 3 PIN output

### **BODY**

Aluminium structure with die-cast plastic cover.

Two side handles for transportation.

Device locking PAN and TILT mechanisms for transportation and maintenance.

### **MOVING BODY**

Travel: -PAN = 540° - TILT = 250°

## ELECTRONICS

Function reset from the lighting desk  
ON/OFF lamp control from the lighting desk  
"AUTOTEST" function from menu  
Electronic monitoring with status error

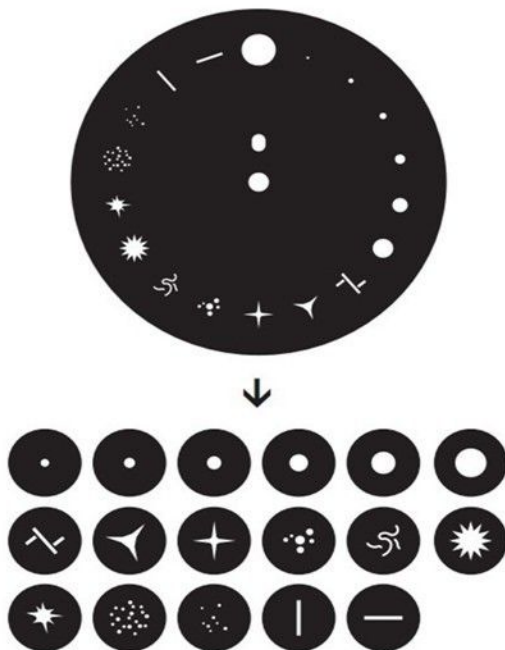
## SAFETY DEVICES

Bipolar circuit breaker with thermal protection.  
Automatic break in power supply in case of overheating or failed operation of cooling system.  
Forced ventilation with axial fans.  
Hanging system: with fast-lock omega clamps (1/4 turn) on the base

## WEIGHT

17.5 Kg

## GOBO&COLOR

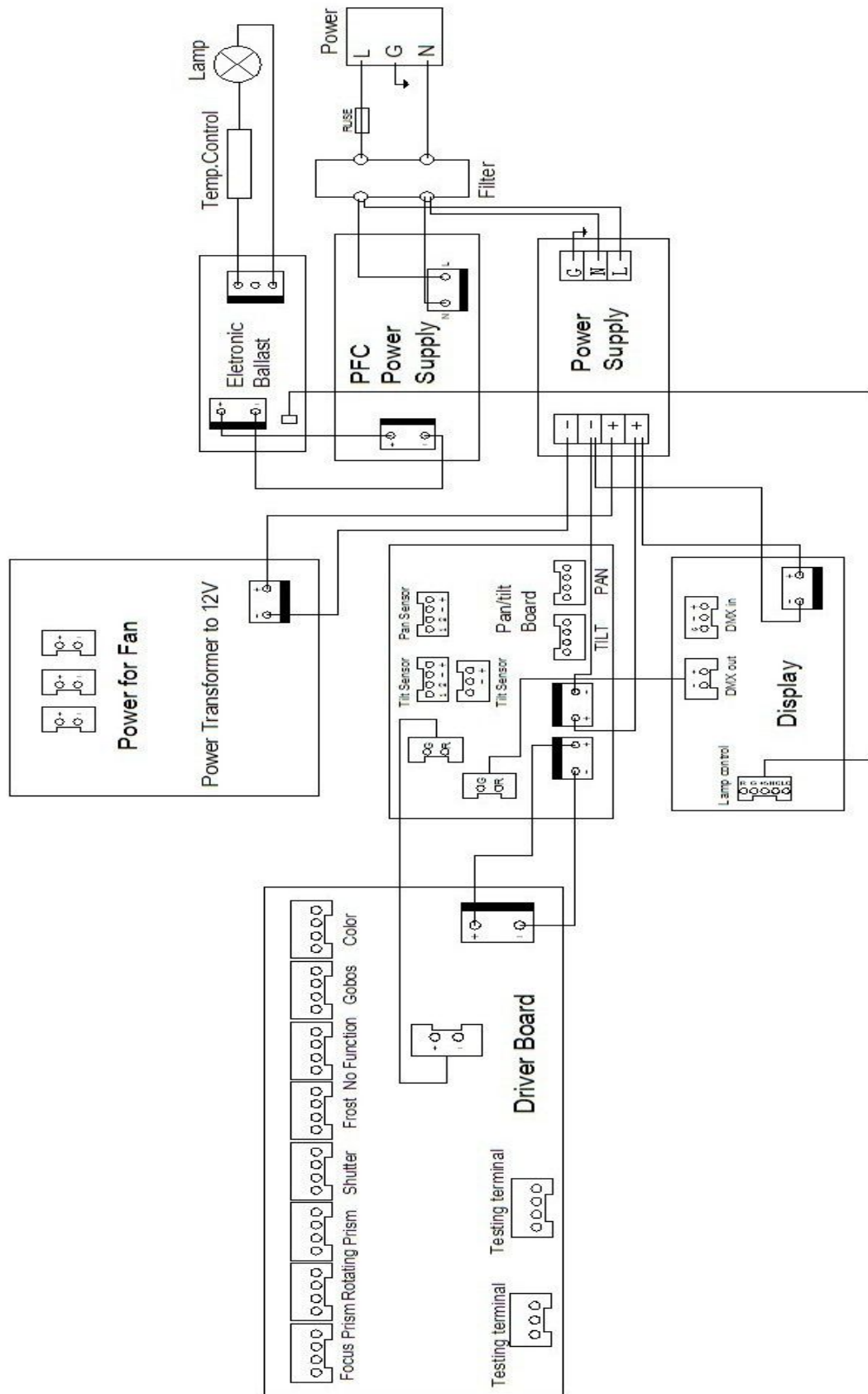




# MENU FUNCTION

A001	(A001 display the products' DMX address)				
001	(001 design the products' DMX address cord)				
MENU	SETU(set up)	CHMO(channel mode)	16CH(16 channel)		<b>Set Up Menu</b>  Menu : SETU Allow you to select Channel mode and Control mode. 1) Press "E" the current setting appears on the display. 2) Use UP and Down, keys to plan the select the following settings
		COMO(control mode)	DMX(dmx)	AUT1	
			AUTO(automatic)	AUT2	
			MAST(mast)	MAS1	MAS2
			SLAV(slave)		
			SOUN(sound)		
	OPTI(option)	LAUP(LAMP UP)	LAMP ON		Menu : OPTION Allow you to select 1) automatically Lamp on/off, when power on 2) and pan/tilt invert, 3) and display on/off/flip, 4) and factory default
			LAMP OFF		
		SEPT(set PAN/TILT)	IPAN(invert pan)		
			ITIL(invert tilt)		
		DISP(display)	FLIP(flip)		
			DON(display on)		DOFF(display off) OK
		DEFA(Factory default)			
	INFO (information)	FHOU(fixture hours)	XXXX		Menu : INFO Information Allow you to select 1) Total working hours of the light. 2) Total working hours of the lamp.
			RSET		
			XXXX		
		LHOU(lamp hours)	RSET		
			VXXX		
		SVER(system version)	VXXX		
	MCON (manual control)	LAMP	ON(lamp on)		Menu : MCON Manual Control Allow you to select 1) you can control Lamp on/off in displayer. 2) RESET. reset the light any time. 3) Any Channel function, no useless so far.
			OFF(lamp off)		
		RESE(reset all)	OK		
		CHAN(channel)			CH1-CH16
	TEST(test)	PATI(pan-tilt)	PT		Menu: TEST  You can select to test PAN/TILT, COLOR, BEAM, GOBO, ALL functions of the light.
		COLO(color)	COL		
		BEAM(beam)	BEA		
		GOBO(gobo)	GOB		
		ALL	ALL		
	ADVA(advanced Need password)	ADCO(adjust color)	+XXX		Menu: ADVA advanced.  This display need password. is only used for factory. Don't pay attention here.
		ADGO(adjust gobo)	+XXX		
		ADPA(adjust pan)	+XXX		
		ADTI(adjust tilt)	+XXX		






# CIRCUIT SCHEMATICS



## DMX CHANNELS

CHANNEL	STANDARD(16CH)	VECTOR(20CH)	
1	Color Wheel	Color Wheel	
2	Stop/Strobe	Stop/Strobe	
3	Dimmer	Dimmer	
4	Static Gobo Change	Static Gobo Change	
5	Prism Insertion	Prism Insertion	
6	Prism rotation	Prism rotation	
7	Function	Function	
8	Frost	Frost	
9	Focus	Focus	
10	Pan	Pan	
11	Pan Fine	Pan fine	
12	Tilt	Tilt	
13	Tilt Fine	Tilt fine	
14	Pan/Tilt Speed	Pan/Tilt Speed	
15	RESET	RESET	
16	Lamp Control	Lamp Control	
17		Pan/Tilt Time	
18		Colour time	
19		Beam time	
20		Gobo time	
Channel	Function	DMX Value	Feature
16Bit			
1	Color wheel	000-005	White+Red
		005-009	Red
		009-013	Red+Orange
		013-018	Orange
		018-022	Orange+Aquamarine
		022-026	Aquamarine
		026-030	Aquamarine+Green
		030-035	Green
		035-039	Green+Light green
		039-043	Light green
		043-047	Light green+Lavender
		047-052	Lavender
		052-056	Lavender+Pink
		056-060	Pink
		060-064	Pink+Yellow
		064-069	Yellow
		069-073	Yellow+Meganta
073-077	Meganta		

		077-082	Magenta+Cyan
		082-086	Cyan
		086-090	Cyan+cto260
		090-094	Cto260
		094-099	Cto260+cto190
		099-103	Cto190
		103-107	Cto190+ctb8000
		107-111	Ctb8000
		111-116	Ctb8000+blue
		116-120	Blue
		120-124	Blue+White
		124-128	Slow roation
		128-255	Slow to fast rotation(160 rpm)
<b>2</b>	<b>Stop/strobe</b>	000-003	Closed
		004	Slow strobe(1 flash/sec)
		103	Fast strobe(12 flash/sec)
		104-107	Open
		108	Slow pulsation
		108-207	Fast pulsation
		208-212	Open
		213-225	Random slow strobe
		226-238	Random medium strobe
		239-251	Random medium strobe
		252-255	Open
<b>3</b>	<b>Dimmer</b>	000-255	0-100% dimmer
<b>4</b>	<b>Static gobo change</b>	000-003	White
		003-071	Gobo1-gobo17
		071-072	Fast rotation
		072-113	Slow rotation
		114-117	Stop
		118	Slow rotation
		159	Fast rotation
		160-166	Gogo2shake,slow-fast speed
		167-172	Gogo3 shake,slow-fast speed
		173-179	Gogo4 shake,slow-fast speed
		180-185	Gogo5 shake,slow-fast speed
		186-191	Gogo6 shake,slow-fast speed
		192-198	Gogo7 shake,slow-fast speed
		199-204	Gog8 shake,slow-fast speed
		205-211	Gogo9 shake,slow-fast speed
		212-217	Gogo10 shake,slow-fast speed
218-223	Gogo11 shake,slow-fast speed		

		224-230	Gogo12 shake,slow-fast speed
		231-236	Gogo13 shake,slow-fast speed
		237-243	Gogo14 shake,slow-fast speed
		244-249	Gogo15 shake,slow-fast speed
		250-255	Gogo16 shake,slow-fast speed
<b>5</b>	<b>Prism insertion</b>	000-127	Prism excluded
		128-255	Prism inserted
<b>6</b>	<b>Prism rotation</b>	000	Position 0°
		021	Position 90°
		042	Position 180°
		063	Position 270°
		084	Position 360°
		105	Position 450°
		127	Position 540°
		128-190	Fast rotation(120rpm)
		191-192	Stop
		192-193	Slow rotation(3rpm)
		193-255	Fast rotation(120rpm)
<b>7</b>	<b>Function</b>	000-100	unused
		101-128	Beam function
		128-255	Unused
<b>8</b>	<b>Frost</b>	000-128	Frost excluded
		129-255	Frost inserted
<b>9</b>	<b>Focus</b>	000-255	
<b>10</b>	<b>Pan</b>	000-255	
<b>11</b>	<b>Pan fine</b>	000-255	
<b>12</b>	<b>Tilt</b>	000-128	
<b>13</b>	<b>Tilt fine</b>	000-255	
<b>14</b>	<b>Pan/Tilt speed</b>	000-255	Fast to slow
<b>15</b>	<b>Reset</b>	000-128	Unused range
		128-255	Rest all
<b>16</b>	<b>Lamp control</b>	000-025	Unused range
		026-100	Lamp off
		101-255	Lamp on

## **REMARK**

The product has perfect performance and integrity packing. All users should be strictly comply with the warning and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty. Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted. All information is subject to change without prior notice.