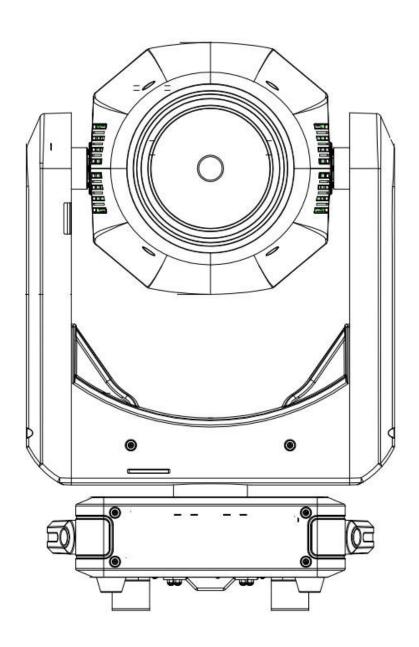


User manual



PRO 460

Please read the instructions carefully before use

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STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1.Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

- •Unpack and check carefully there is no transportation damage before using the unit.
- •Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- •It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- •The unit is for indoor use only. Use only in a dry location.
- •The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- •Disconnect main power before replacement or servicing.
- •Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- •Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- •Maximum ambient temperature is Ta: 40°C. DO NOT operate it where the temperature is higher than this Unit surface temperature may reach up to 85°C. DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- •the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- •DO NOT touch any wire during operation as high voltage might be causing electric shock.

Warning:

- •To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- •The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

•There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

Installation:

- •The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.
- •The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

2.Technical Specifications

460W LED BSW 3-in-1 moving head

Optics:

Source:460W white LED

Life:>30000H

Zoom angle:6°-42°

Input power:550W

AC100-240V 50-60HZ

Pan movement:540°(16bit)

Tilt movement:270°(16bit)

Advanced motion system:auto repositioning,fast,quiet and smooth

Color: CMY+CTO color mixing system

1 color plate: 7 fixed color plates + white light

Gobo: 1 effect plate (fire plate)

1 rotating gobo wheel: 7 gobos+white

1 fixed pattern plate: 9 pattern pieces + white

Prism: 1 bidirectional 5-face prism

5-100% electronic Iris

Frost: Light frost, heavy frost

Animation wheel: special dynamic water effect

Dimming: 0-100% linear dimming

Features:

DMX Channels:25/36channels

Control: DMX 512, RDM

Dimension: 840*460* 380 mm, NW:26 kg

3.DMX Channels

DMX channel's functions and values (25/36DMX channels)

Mo	ode	DMX Value	Function Illustration
CH 25	CH 36		
1 1	4		Pan Movement 8bit:
	0-255	Pan Movement	
2 2	0		Pan Fine 16bit:
	2	0-255	Fine control of Pan movement
2	2		Tilt Movement 8bit:
3	3	0-255	Tilt Movement
4	4		Tilt Fine 16bit
4	4	0-255	Fine control of Tilt movement
			Speed Pan/Tilt movement:
5	5	0-255	Max to min speed
			Shutter,strobe
		0-10	Shutter closed
		11-21	Shutter open
		22-126	Strobe effect slow to fast
6	6	127-137	Shutter open
		137-201	Pulse-effect in sequences
		202-212	Shutter open
		213-244	Random strobe effect slow to fast
		245-255	Shutter open
7	7		Dimmer intensity
7	7	0-255	Intensity 0 to 100%
	0		Dimmer intensity Fine:
	8	0-255	Dimmer intensity Fine
0	0		Zoom:
8	9	0-255	Zoom adjustment from small to big
	10		Zoom fine:
	10	0-255	Zoom adjustment fine
9	11		Focus:
9	11	0-255	Continuous adjustment from near to far
	12		Focus Fine:
	12	0-255	Continuous adjustment fine
			Auto Focus:
	13	0-51	Auto Focus off
10		52-102	5m
10		103-153	7.5m
		154-204	10m
		205-255	15m

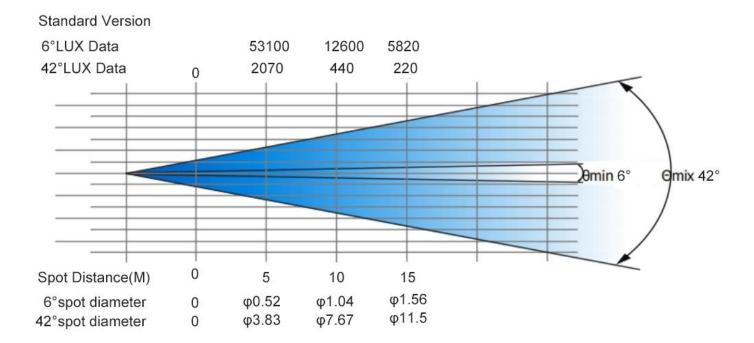
			Auto Focus fine:
11 14	14	0-255	Continuous adjustment fine
		3 233	Color Wheel:
		0-15	Open
		16-22	Open/Color 1
		23-29	Color 1
		30-36	Color 1 / Color 2
		37-43	Color 2
		44-50	Color 2 / Color 3
		51-57	Color 3
		58-64	Color 3/ Color 4
			Color 4 Color 4
40	4.5	65-71	
12	15	72-78	Color 4/ Color 5
		79-85	Color 5
		86-92	Color 5/ Color 6
		93-99	Color 6
		100-106	Color 6/ Color 7
		107-113	Color 7
		114-120	Color 7/Open
		121-127	Open
		128-189	Forwards rainbow effect from fast to slow
		190-193	No rotation
		194-255	Backwards rainbow effect from slow to fast
	16		Color Wheel Fine:
	10	0-255	Color Wheel colour change to any position fine
13	17		Cyan Color:
	17	0-255	Cyan(0-white,255-100% Cyan)
	18		Cyan Colorf Fine:
	10	0-255	Cyan Fine
14	19		Magenta Color Fine:
14	19	0-255	Magenta(0-white,255-100% Magenta)
	20		Magenta Fine Fine:
	20	0-255	Magenta Fine
15	24		Yellow Color:
15	21	0-255	Yellow(0-white,255-100% Yellow)
	00		Yellow Color Fine:
	22	0-255	Yellow Fine
40	00		CTO Color:
16	23	0-255	CTO(0-white,255-100% CTO)
	2.		CTO Color Fine:
	24	0-255	CTO fine
17	25		Rotating gobos.cont,rotation 1:

		0-7	Open
	8-20	Rot.gobo 1	
	21-33	Rot.gobo 2	
	34-46	Rot.gobo 3	
	47-59	Rot.gobo 4	
	60-72	Rot.gobo 5	
		73-85	
		86-98	Rot.gobo 6
17	25	99-111	Rot.gobo 7 Gobo 1 shake slow to fast
17	25		
		112-124	Gobo 2 shake slow to fast
		125-137	Gobo 3 shake slow to fast
		138-150	Gobo 4 shake slow to fast
		151-163	Gobo 5 shake slow to fast
		164-176	Gobo 6 shake slow to fast
		177-189	Gobo 7 shake slow to fast
		190-221	Gobo wheel rotation forwards from fast to slow
		222-223	No rotation
		224-255	Gobo wheel rotation backwards from slow to fast
		0 107	Rotating gobo index,rotating gobo rotation 1:
40		0-127	Gobo indexing
18	26	128-189	Forwards gobo rotation from fast to slow
		190-193	No rotation
		194-255	Backwards gobo rotation from slow to fast
	27	0.055	Rotating gobo indexing Fine 1:
		0-255	Fine indexing
			Fixed Gobo2:
		0-9	Open
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4
		41-59	Gobo 5
		60-69	Gobo 6
		70-79	Gobo 7
19 28	00	80-89	Gobo 8
	28	90-99	Gobo 9
		100-109	Gobo 1 shake slow to fast
		110-119	Gobo 2 shake slow to fast
		120-129	Gobo 3 shake slow to fast
		130-139	Gobo 4 shake slow to fast
		140-149	Gobo 5 shake slow to fast
		150-159	Gobo 6 shake slow to fast

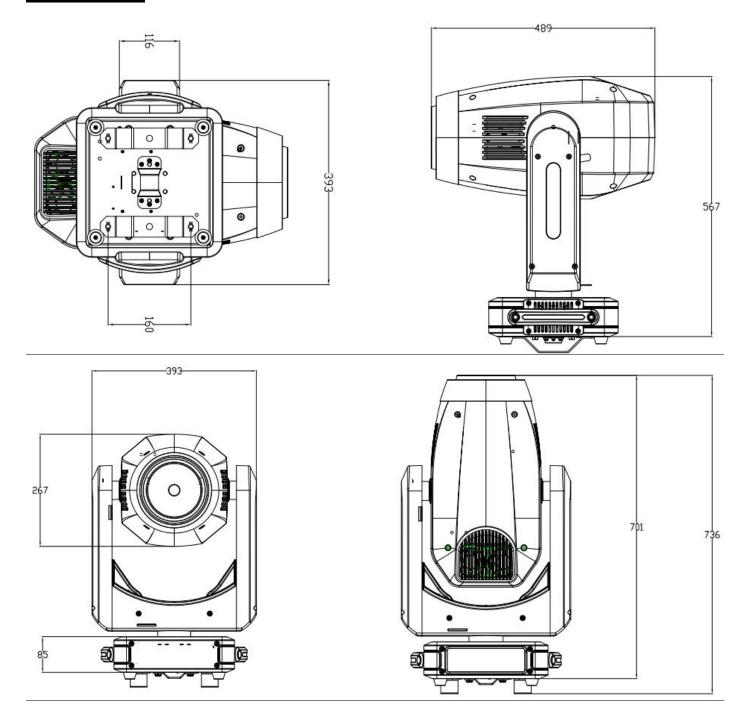
	1	T	
19 28		160-169	Gobo 7 shake slow to fast
	170-179	Gobo 8 shake slow to fast	
	180-189	Gobo 9 shake slow to fast	
		190-221	Gobo wheel rotation forwards from fast to slow
		222-223	No rotation
		224-255	Gobo wheel rotation backwards from slow to fast
			Animation wheel:
		0-127	Animation indexing
20	29	128-189	Forwards rotation from fast to slow
		190-193	No rotation
		194-255	Backwards rotation from slow to fast
21	30		Iris:
21	30	0-255	Max.diameter to Min.diameter
	31		Iris Fine:
	31	0-255	Iris Fine
			Prism:
22	32	0-127	Open
		128-255	Prism
			Rotating prism index,rotating prism rotation
		0-127	Prism indexing
23	33	128-189	Forwards prism rotation from fast to slow
		190-193	No rotation
		194-255	Backwards prism rotation from slow to fast
	24		Rotating prism indexing fine:
	34	0-255	Fine indexing
			Frost:
24	35	0-127	Open
		128-255	Frost
			Reset、LCD、Fans
		0-9	unused
		10-19	Display off
		20-29	Display on
		30-39	Display Invert off
25 36		40-49	Display invert on
	200	50-59	Auto fan control mode
	30	60-69	High fan control mode
		70-79	Silent fan control mode
		80-89	Square Law
		90-99	Inv SQ Law
		100-109	Linear
		110-119	S Curve
		120-129	unused
1	1	1	

	130-139	Unused	
		140-149	Unused
25	36	150-159	All motor reset
		160-169	Scan motor reset
		170-179	Colors motor reset
		180-189	Gobo motor reset
		190-199	Other motor reset
		200-255	unused

4.LUX Date



5.Dimension



6.Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

- 1. Check the connection of power and main fuse.
- 2. Measure the mains voltage on the main connector.
- 3. Check the power on LED.

B. Not responding to DMX controller

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- 2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- 3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- 4. Try to use another DMX controller.
- 5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well

- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2. The motor's drive IC on the PCB might be out of condition

7.Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.