

# BIG-HERO 330

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 in cable
2. One 3-Pin DMX cable
3. Two bracket clamps
4. One English user manual

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

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

## **GENERAL GUIDELINES**

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, 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 6<sup>th</sup> 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, 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.

### ▲ 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 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.**

## **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. 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) 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.

## **TECHNICAL PARAMETERS**

Input: AC100~240V, 50/60Hz

Power Consumption: 500W

Lamp source: Philips MSD Platinum 16R 330W

Zoom angle: 0°~7°(Beam mode)

5°~40°(Spot mode)

Color temperature: 8000K

Control mode: DMX512/automatic and master/slave mode

PAN =540°

TILT = 250°

Pan/Tilt Resolution: 16 bit

LCD display in black white background, display flip on two-buttons

3 and 5-pin DMX in/out

Channel: 18CH

Electronic Focus: 0°~40°

Colors: 1 color wheel with 13 fixed colors + open with rainbow effect

Rotating gobos : 1 gobo wheel with 12 gobos+ open

Static gobos: 1 gobo wheel with 17 gobos + open

Excellent color macro effect

0~100% linear electronic dimmer

8 and 24 facet rotating prism

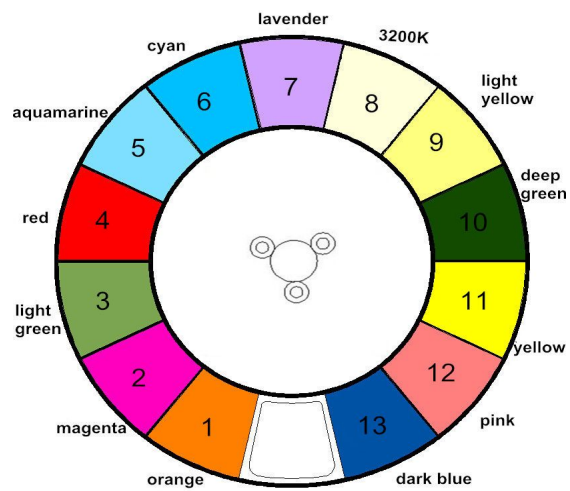
0-100% frost effect

Various speed of strobe effect

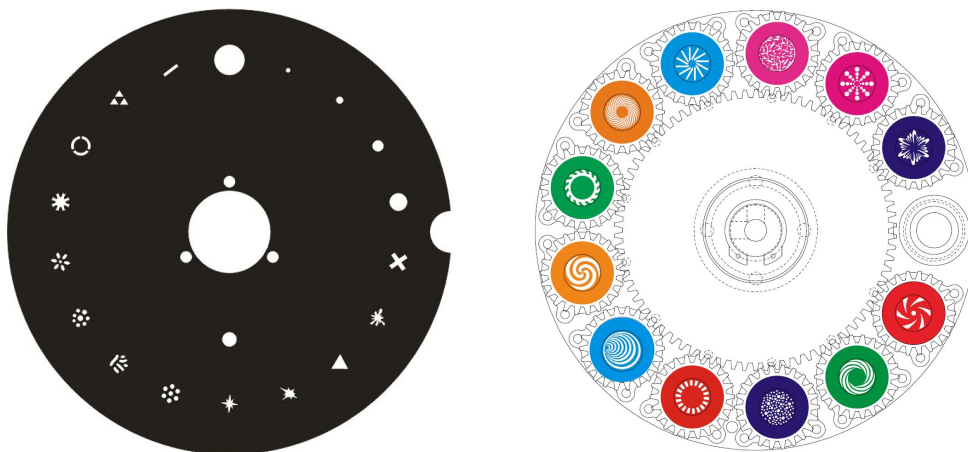
Size: 370×300×550mm

Weight: 21kg

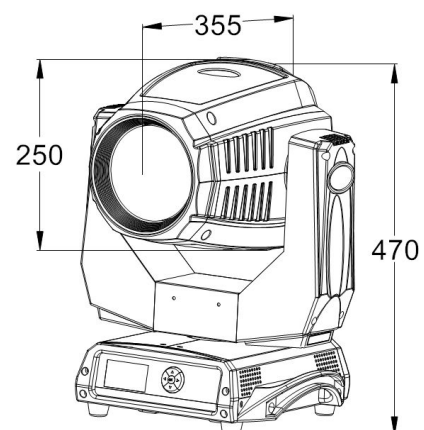
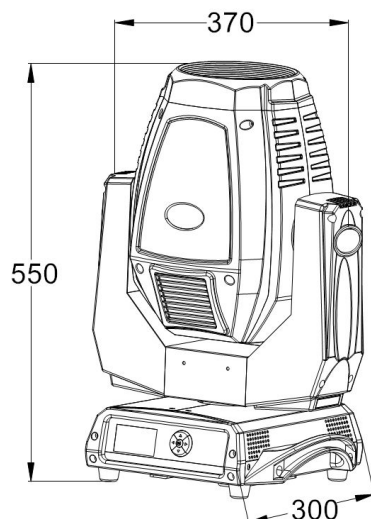
## COLOR WHEEL:



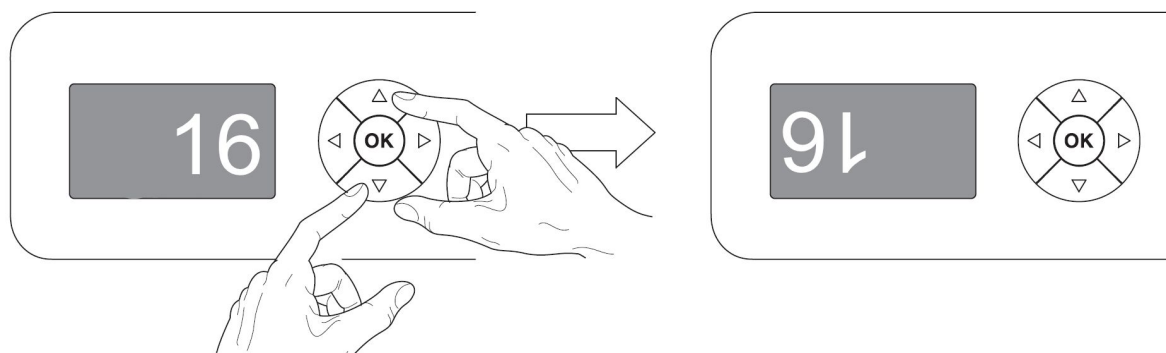
## GOBO WHEEL:



## FIXTURE SIZE:



## FUNCTIONS OF BUTTONS



### Reversal of the display

To activate this function, press UP and DOWN keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

	Confirms the displayed value, or activates the displayed function, or enters the successive menu.
	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
	Return to the top level.
	Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menu.

### USING THE MENU:

- 1 ) Press "OK" once – "Main Menu" appears on the display.
- 2) Use the UP and DOWN keys to select the menu to be used:
  - Setup (Setup Menu): To set the setting options.
  - Option (Option Menu): To set the operating options
  - Informations (Informations Menu): To read the counters, software version and other information.
  - Manual Control (Manual control Menu): To trigger the test and manual control functions.
  - Test (Test Menu): To check the proper functioning of effects
  - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.
- "Advanced" password: 988
- 3) Press "OK" to display the first item in the selected menu.
- 4) Use the UP and DOWN keys to select the MENU items.

## MENU FUNCTION

A001	Set Up	Dmx Address	Setting Address*
		Control Mode	<div>Dmx</div> <div>Automatic</div> <div>Mast</div>
	Option	Lamp Control	<div>Lamp Start ON</div> <div>Lamp Start OFF</div>
		Pan/Tilt	<div>Invert Pan ON/OFF</div> <div>Invert Tilt ON/OFF</div> <div>Swap P/T ON/OFF</div>
		Display	Display Flip
		Setting	Default Preset
			<div>Reset to Default</div> <div>NO</div> <div>YES</div>
	Information	Fixture hours	<div>Fixture Used time:</div> <div>Reset? NO</div> <div>YES</div>
		Lamp hours	<div>Lamp Used Time:</div> <div>Reset? NO</div> <div>YES</div>
		System version	VXXX
	Manual control	Lamp Switch	<div>Lamp ON</div> <div>Lamp OFF</div>
		Reset All	<div>NO</div> <div>YES</div>
	Test	Pan/Tilt	PT testing
		Colour	COL testing
		Beam	Beam testing
		Gobo	Gobo testing
		Gobo1	Gobo1 testing
		ALL	ALL testing
	Advanced need password 988	Adjust Color	+XXX
		Adjust Gobo	+XXX
		Adjust Gobo1	+XXX
		Adjust Pan	+XXX
		Adjust Tilt	+XXX
		Adjust Zoom	+XXX
		Adjust Focus	+XXX

## DMX CHANNELS

<b>CHANNEL</b>	<b>ST 18 CHANNEL</b>
1	Pan
2	Pan Fine
3	Tilt
4	Tilt Fine
5	Pan Tilt speed/ time
6	Control
7	Color
8	Static gobo
9	Rotation gobo
10	Gobo Rot
11	8 facet Rotating Prism
12	24 facet Rotating Prism
13	Prism Rot
14	Frost
15	Zoom
16	Focus
17	Shutter
18	Dimmer

<b>1</b>		<b><i>Pan</i></b>
	0-255	Pan Movement by 540°
<b>2</b>		<b><i>Pan Fine</i></b>
	0-255	Fine Control of Pan movement
<b>3</b>		<b><i>Tilt</i></b>
	0-255	Tilt Movement by 250°
<b>4</b>		<b><i>Tilt Fine</i></b>
	0-255	Fine control of Tilt movement
<b>5</b>	0-255	Pan/Tilt speed fast-slow
<b>6</b>		<b><i>Control</i></b>
	0-129	Reserved
	130-139	Lamp ON
	140-149	Pan/Tilt reset
	150-159	Colour system reset
	160-169	Gobo wheels reset
	170-179	Dimmer/Shutter reset
	180-189	Zoom/focus/prism reset
	190-199	Reserved
	200-209	Total reset

	210-229	Reserved	
	230-239	Lamp Off	
	240-255	Reserved	
<b>7</b>		<b>Color</b>	
	0	Open/white	
	1-9	Continuous Position Colour1	orange
	10-18	Continuous Position Colour2	magenta
	19-27	Continuous Position Colour3	light green
	28-36	Continuous Position Colour4	red
	37-46	Continuous Position Colour5	aquamarine
	47-55	Continuous Position Colour6	cyan
	56-64	Continuous Position Colour7	lavender
	65-73	Continuous Position Colour8	3200K
	74-82	Continuous Position Colour9	light yellow
	83-92	Continuous Position Colour10	deep green
	93-101	Continuous Position Colour11	yellow
	102-110	Continuous Position Colour12	pink
	111-120	Continuous Position Colour13	dark blue
	121-129	White	
	130-134	Colour1	orange
	135-138	Colour2	magenta
	139-143	Colour3	light green
	144-147	Colour4	red
	148-152	Colour5	aquamarine
	153-157	Colour6	cyan
	158-161	Colour7	lavender
	162-166	Colour8	3200K
	167-171	Colour9	light yellow
	172-176	Colour10	deep green
	177-180	Colour11	yellow
	181-185	Colour12	pink
	186-189	Colour13	dark blue
	190-215	Forwards rainbow effect from fast to slow	
	216-218	No rotation	
	219-243	Backwards rainbow effect from slow to fast	
	244-249	No rotation	
	250-255	Auto random colour selection from fast to slow	
<b>8</b>		<b>Static Gobo</b>	
	0-3	Open	
	4-9	Gobo 1	
	10-15	Gobo 2	
	16-21	Gobo 3	

	22-27	Gobo 4
	28-33	Gobo 5
	34-39	Gobo 6
	40-45	Gobo 7
	46-51	Gobo 8
	52-57	Gobo 9
	58-63	Gobo 10
	64-69	Gobo 11
	70-75	Gobo 12
	76-81	Gobo 13
	82-87	Gobo 14
	88-93	Gobo 15
	94-99	Gobo 16
	100-105	Gobo 17
		<b>Shaking gobos from slow to fast</b>
	106-111	Gobo 1 shake slow to fast
	112-116	Gobo 2 shake slow to fast
	117-121	Gobo 3 shake slow to fast
	122-126	Gobo 4 shake slow to fast
	127-131	Gobo 5 shake slow to fast
	132-136	Gobo 6 shake slow to fast
	137-141	Gobo 7 shake slow to fast
	142-146	Gobo 8 shake slow to fast
	147-151	Gobo 9 shake slow to fast
	152-156	Gobo 10 shake slow to fast
	157-161	Gobo 11 shake slow to fast
	162-166	Gobo 12 shake slow to fast
	167-171	Gobo 13 shake slow to fast
	172-176	Gobo 14 shake slow to fast
	177-181	Gobo 15 shake slow to fast
	182-186	Gobo 16 shake slow to fast
	187-191	Gobo 17 shake slow to fast
	192	Open/hole
	193-223	Forwards gobo wheel rotation from fast to slow
	224	No rotation
	225-255	Backwards gobo wheel rotation from slow to fast
<b>9</b>		<b><i>Rotating gobo wheel</i></b>
	0-3	Open
	4-12	Gobo 1
	13-21	Gobo 2
	22-30	Gobo 3
	31-39	Gobo 4

	40-48	Gobo 5
	49-57	Gobo 6
	58-66	Gobo 7
	67-75	Gobo 8
	76-84	Gobo 9
	85-93	Gobo 10
	94-102	Gobo 11
	103-111	Gobo 12
		<b>Shaking gobos from slow to fast</b>
	112-120	Gobo 1
	121-129	Gobo 2
	130-138	Gobo 3
	139-147	Gobo 4
	148-156	Gobo 5
	157-165	Gobo 6
	166-174	Gobo 7
	175-183	Gobo 8
	184-192	Gobo 9
	193-201	Gobo 10
	202-210	Gobo 11
	211-219	Gobo 12
	220	Open/hole
	221-237	Forwards gobo wheel rotation from fast to slow
	238	No rotation
	239-255	Backwards gobo wheel rotation from slow to fast
<b>10</b>		<b>Gobo Rot</b>
	0-3	Open/no rotation
	4-131	Rotating position
	132-192	Forwards gobo rotation from fast to slow
	193-194	No rotation
	195-255	Backwards gobo rotation from slow to fast
<b>11</b>		<b>8 Facet Prism</b>
	0-128	Open
	129-255	Prism indexing
<b>12</b>		<b>24 Facet Rotating Prism</b>
	0-128	Open
	129-255	Prism indexing
<b>13</b>		<b>Prism Rot</b>
	0-128	Rotating position
	129-190	Forwards gobo rotation from fast to slow
	191-193	No rotation
	194-255	Backwards gobo rotation from slow to fast
<b>14</b>		<b>Frost</b>

	0-3	Open
	4-179	Frost from 0% to 100%
	180-189	100% frost
	190-211	Pulse closing from slow to fast
	212-233	Pulse opening from fast to slow
	234-255	Ramping from fast to slow
<b>15</b>		<b><i>Zoom</i></b>
	0-225	Zoom from min to max
<b>16</b>		<b><i>Focus</i></b>
	0-225	Continuous adjustment from far to near
<b>17</b>		<b><i>Shutter/strobe</i></b>
	0-31	Shutter closed
	32-63	Shutter open
	64-95	Strobe-effect from slow to fast
	96-127	Shutter open
	128-143	Opening pulse in sequences from slow to fast
	144-159	Closing pulse in sequences from slow to fast
	160-191	Shutter open
	192-223	Random strobe-effect from slow to fast
	224-255	Shutter open
<b>18</b>		<b><i>Dimmer intensity</i></b>
	0-255	Dimmer intensity from 0% to 100%

## 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.





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