Hydrex Beam Force 420

CONTENTS

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!
Unplug mains lead before opening the housing!

Everyone 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 stage light.

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

After unpacking, the accessories for each lamp should include:

1. One powerCON cable
2. One 3-Pin/5-pin XLR cable
3. One safety rope

(Flight case and Clamp 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.

SAFETY INSTRUCTIONS

1. The maximum working environment temperature cannot exceed 40℃, and the minimum cannot be lower than -20℃.
2. Do not place the product in a place where it is easy to loose or vibrate.
3. In order to avoid the risk of electric shock, the maintenance of the product should be done by professionals.
4. Check whether the voltage, frequency and other electrical data of the light power supply line are consistent with the voltage and frequency parameters marked on the light, so as to avoid voltage mismatch and burn out the light.
5. When the light is in use, the power supply voltage change should not exceed ±10%.
6. The light is designed according to the type of protection against electric shock, and the light should be connected to a power supply system with sufficient grounding. And the earth wire of the light must be connected with the earth wire of the power supply system, and the earth mark on the metal shell of the light must be securely connected with the light holder.
7. Please do not look directly at the light source, as it may damage the retina of the eye and cause blindness.
8. Do not touch the device at will during use to avoid burns caused by high temperature.
9. Please do not project the beam on combustibles. The distance between the light

output port and the surface of combustibles must be greater than 15 meters.

10. The light should be installed in a well-ventilated place, with a distance of 50 cm or more from the wall. Also, check that the fans and vents are unobstructed.

CLEANING AND MAINTENANCE

1. Intermittent use will effectively prolong the life of the lamp.
2. In order to obtain good ventilation and lighting effects, pay attention to cleaning the fan, fan net and lens frequently.
3. Do not wipe the housing of the light with alcohol or other organic solvents to avoid damage.

STATEMENT

When the product is shipped from the factory, its performance is intact and the packaging is complete. All users should strictly abide by the warnings and operating instructions stated above. Any damage caused by misuse is not covered by the company's warranty. Failures and problems caused by ignoring the operation manual are not within the responsibility of the dealer.

Note: Based on our company's policy of continuous product improvement, the data contained in this manual may change in the future, and will no longer notify the changes. The company reserves the right to change the relevant specification data when the product is improved.

The publisher of this manual will not assume any responsibility for the consequences of such information.

Technical parameters

Power Supply

AC100 - 240V, 50/60 Hz

Power consumption: 550W

Light Source

USHIO NSLU7A 420W

Average life: 4000 hrs long lifespan

Color temperature: 6800K

Effect

Beam angle: 2°, 750000lux@10m

Lens diameter: 180mm

Color wheel: 13 colors + white

Fixed gobo wheel: 15 gobos + white

Prism: 8-facet+8-facet+24-facet

Prism overlay, 7 types prism

Frost filter for soft-edge projection

Focusing: 0-100% linear

Dimming: 0-100% linear

Strobe: 1-12 Hz, random and pulse flash

Control

Pan/Tilt: 540/270°

Control mode: DMX512/RDM

DMX channels: 16
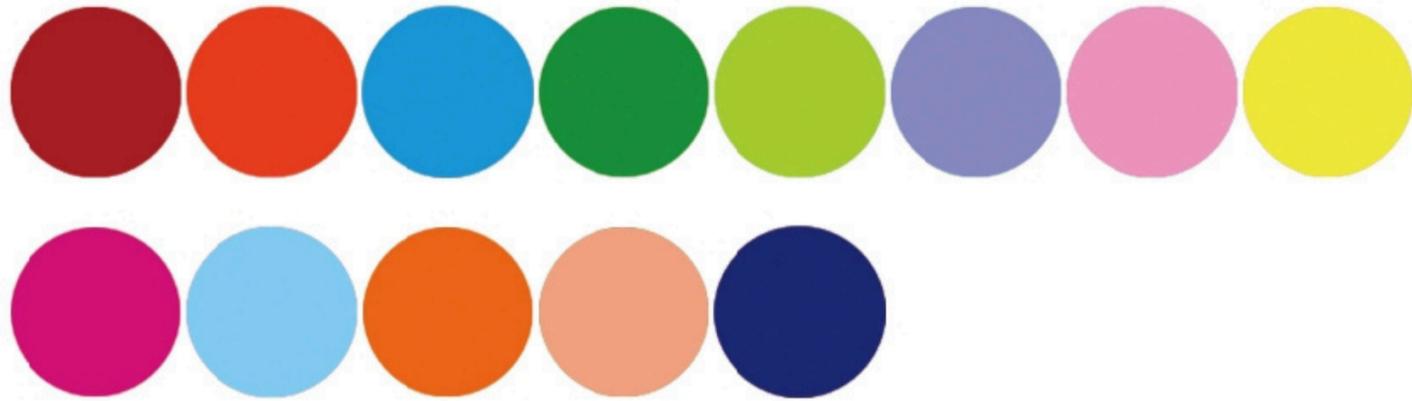
Powercon: Seetronic Power in & out

XLR in & out: 3 pin/5 pin

IP Rating: IP66

Packed

Net weight: 20kg

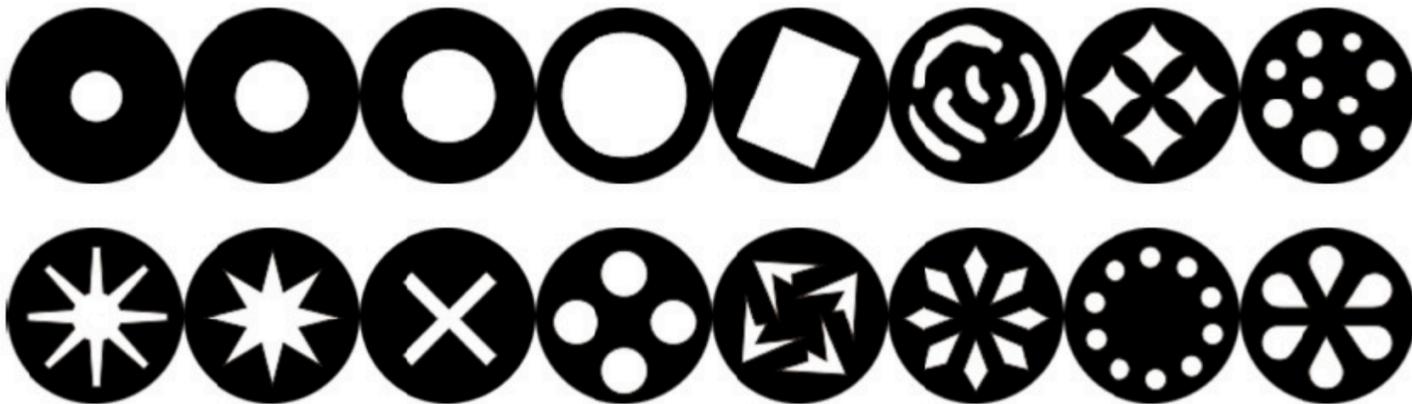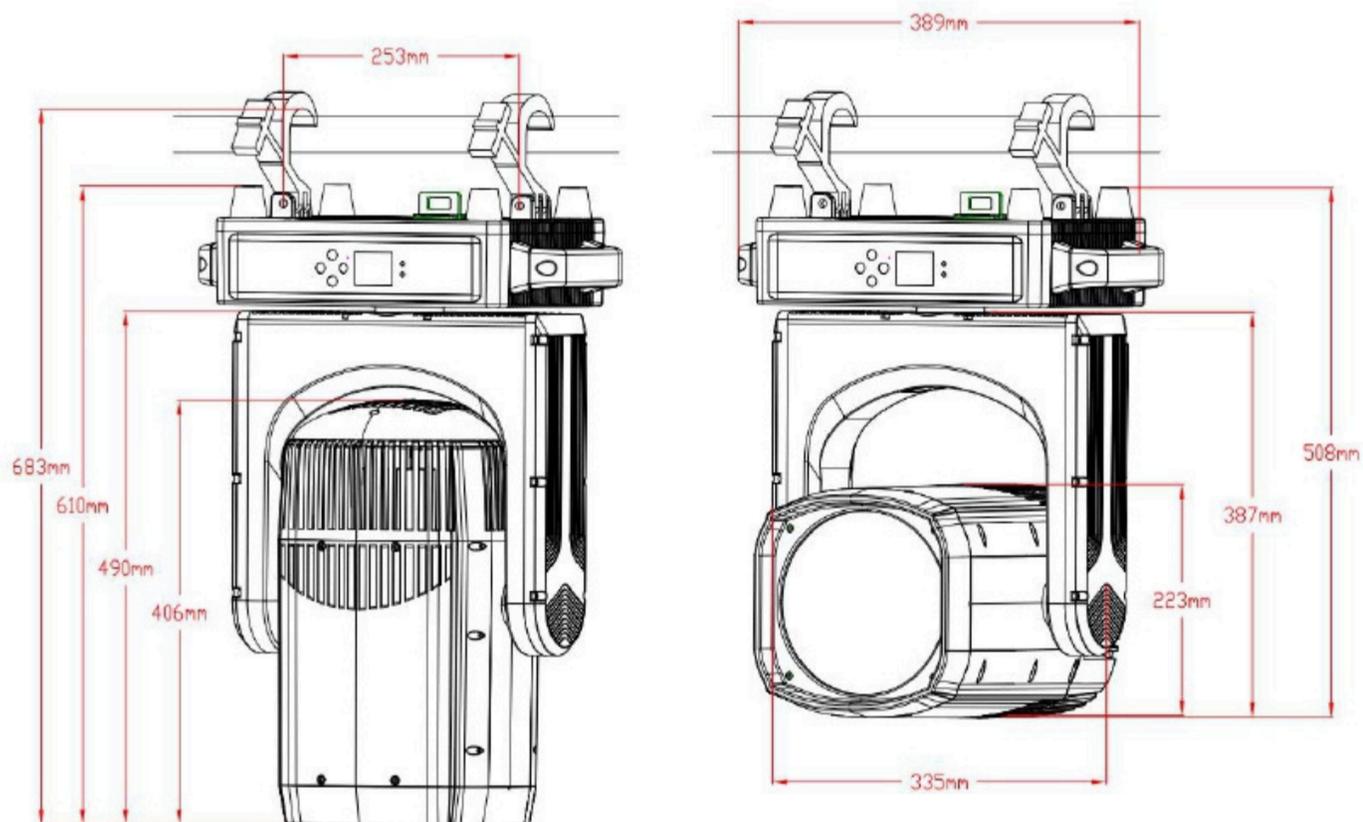**Color wheel**

Fixed gobo wheel

Fixture size

Photometrics

(Lux)	768500	337700	193400	121600
Distance(m)	10	15	20	25
Diameter(m)	0.3	0.44	0.59	0.74
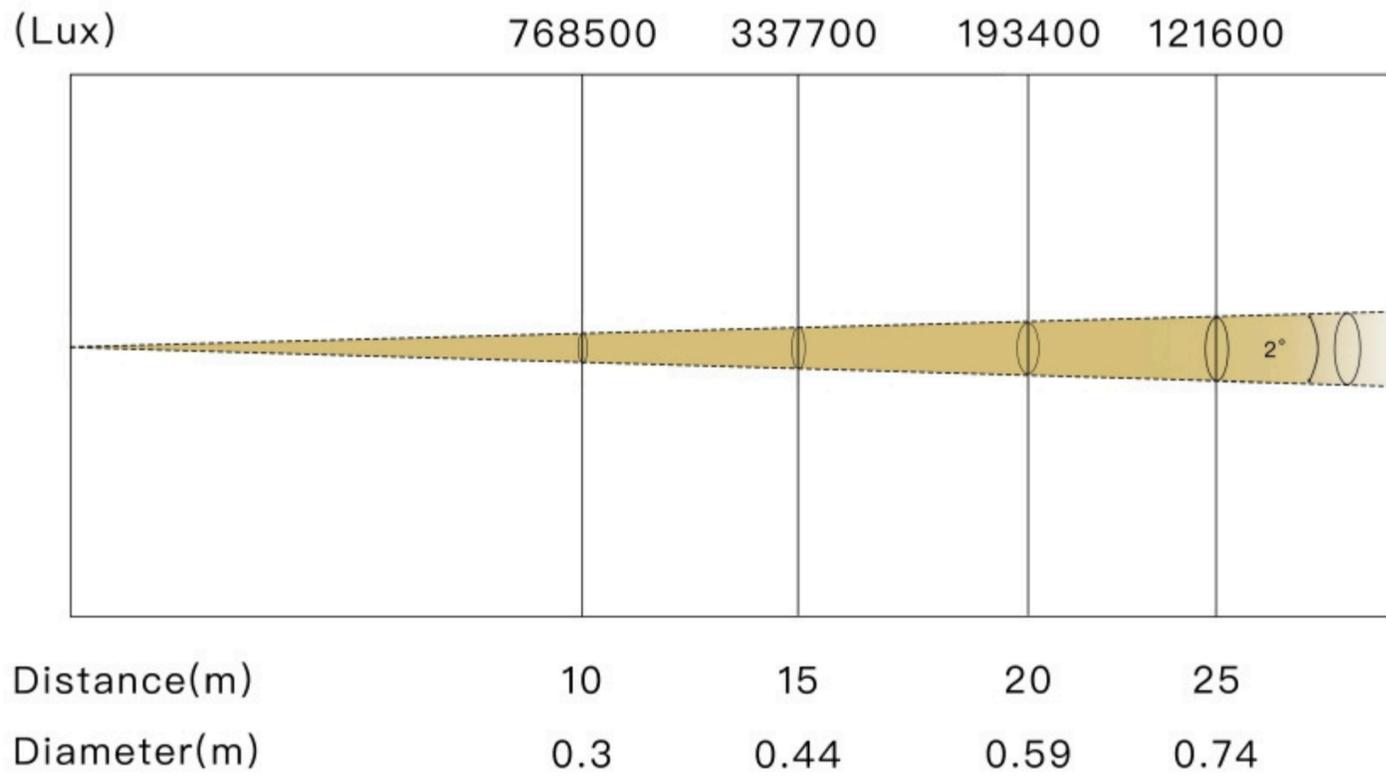
FUNCTIONS OF BUTTONS

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.
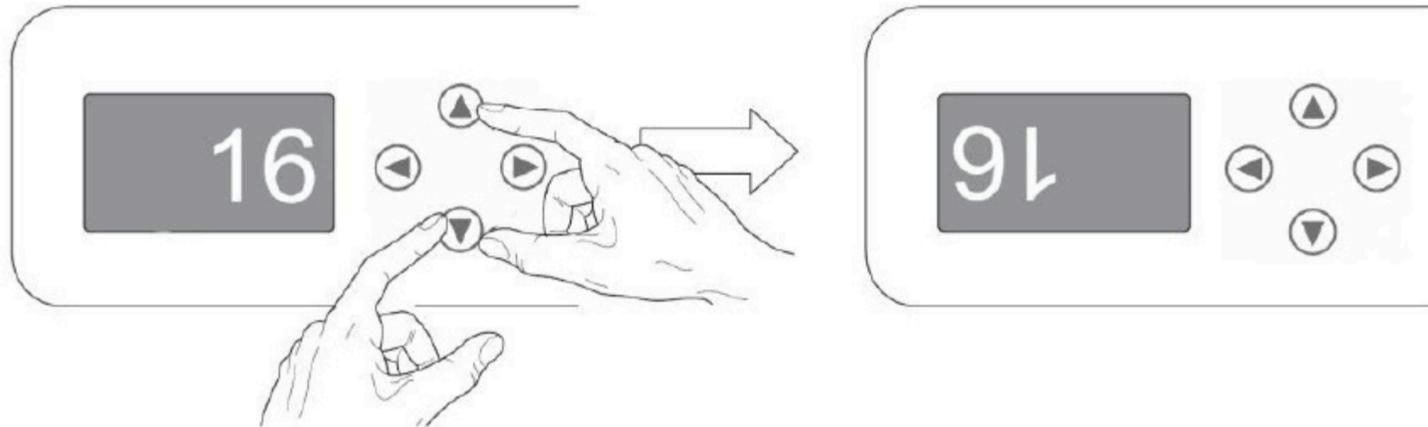
Button description:

	UP	Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
	DOWN	Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
	LEFT	Return to the top level.
	RIGHT	
	OK	Confirms the displayed value, or activates the displayed function, or enters the successive menu.

Advanced Menu:
1.Long press the left button for 3 second on boot screen.
2. Enter the password "988" after a new window pops up.
3.Can adjust the pan tilt initial position and reset the hours of fixture use.

MENU FUNCTION

Address	001

RunMode	DMX Mode
	Auto Mode
	Manual Test

Manual Test	01. Color
	......
	16. Lamp

Scene Set	Scene Select 01-20
	Scene Time 001-255
	Auto Run
	01. color
	......
	14. Pan Tilt Time

ClearSceneData	OK/Cancel

Advanced	Invert Pan	OFF/ON
	Invert Tilt	OFF/ON
	Pan-Tilt Swap	OFF/ON
	Pan-Tilt Encoder	ON/OFF
	ScreenRotation	OFF/ON
	ScreenLock	OFF/ON
	Language	English/Chinese
	Lamp	OFF/ON
	Lamp On	OFF/ON
	DMX Signal	Keep/Clear
	Work Signal	Standard/Silence
	Device Reset	OFF/ON
	Clear Time	OK/Cancel
	Load Default	OK/Cancel

SysInfo	VER:	
	DIS:	
	MT:	
	Time Infomation	TotalLamp:00000:00
		TotalUser:00000:00
	System Warning	No Error
	Turbo Fan Speed	0
	Tempe State	1
	Hall State	1110011
	Pan Wheel Step	+0000
	Tilt Wheel Step	+0000
	Authority Hours	9999

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DMX CHANNEL LIST

CHANNEL	16 CHANNEL
1	Color Wheel
2	Strobe
3	Dimmer
4	Static Gobo
5	Prism Insertion
6	Prism rotation
7	Function
8	Frost
9	Focus
10	Pan
11	Pan Fine
12	Tilt
13	Tilt Fine
14	Pan/Tilt Speed
15	RESET
16	Lamp Control

CHANNEL DETAIL

CH	Function	DMX Value	Description
1	Color wheel	000-004	White
		005-008	White+Dark red
		009-012	Dark red
		013-017	Dark red+Orange red
		018-021	Orange red
		022-025	Orange red+Blue
		026-029	Blue
		030-034	Blue+Green
		035-038	Green
		039-042	Green+light green
		043-046	Light green
		047-051	Light green+Purple
		052-055	Purple
		056-059	Purple+Pink
		060-063	Pink
		064-068	Pink+Yellow
		069-072	Yellow
		073-076	Yellow+Rose red
		077-081	Rose red
		082-085	Rose red+Light blue
		086-089	Light blue
		090-093	Light blue+Orange
		094-097	Orange
		098-102	Orange+3000K
		103-106	3000K
		107-110	3000K+Deep blue
		111-123	Deep blue
		124-127	Deep blue+White
		128-255	Water flow effect from slow to fast
2	Strobe	000-003	Closed
		004-103	Slow to strobe(1-12 flash/sec)
		104-107	Open
		108-207	Slow to fast pulsating flashing
		208-212	Open
		213-225	Random slow strobe
		226-238	Random medium-speed strobe
		239-251	Random rapid strobe
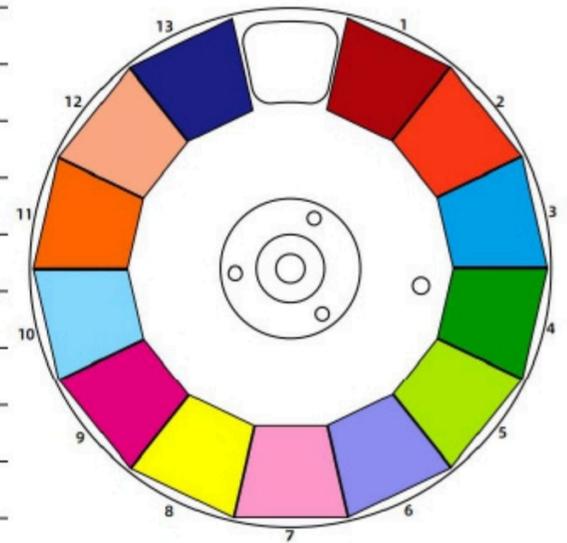
		252-255	Open
3	**Dimming**	000-255	Dimming from dark to bright
4	**Static gobo**	000-011	White
		012-071	Gobo 1 to 15: Four Channels per gobo
		072-113	Water flow effect from fast to slow
		114-117	Stop
		118-159	Water flow effect from slow to fast
		160-255	Gobo 1 to 15 shaking from slow to fast: Four Channels per gobo
5	**Prism**	000-003	No prism
		004-039	8-facet prism 1
		040-075	8-facet prism 2
		076-111	24-facet prism
		112-147	8-facet prism 1+2
		148-183	8-facet prism 1+24-facet prism
		184-219	8-facet prism 2+24-facet prism
		220-255	8-facet prism 1+2 +24-facet prism
6	**Prism rotation**	000-127	Rotate 540° clockwise
		128-190	Rotating counterclockwise from fast to slow
		191-192	Stop
		193-255	Rotating clockwise from slow to fast
7	**Function**	000-255	Free
8	**Frost**	000-127	No frost
		128-255	Frost
9	**Focus**	000-255	
10	**Pan**	000-255	
11	**Pan fine**	000-255	
12	**Tilt**	000-128	
13	**Tilt fine**	000-255	
14	**Pan/Tilt speed**	000-255	From fast to slow
15	**Reset**	000-025	No function
		026-076	Head function reset
		077-127	Pan Tilt reset
		128-255	All reset
16	**Lamp control**	000-019	No function
		020-022	Silent mode（Power 370W）
		023-025	Standard mode（Power 420W）
		026-100	Lamp off
		101-255	Lamp on

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