

# brighter

## Smart Spot 330 Pro



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place

## User manual

Please read the instructions carefully before use

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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.

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**

### **Power supply**

AC100V~240V, 50/60Hz

Power consumption: 400W

### **Light source**

1\*330W LED

Rated life: 50,000 hrs

Color temperature: 8500K

CRI > 83

### **Effect**

Motorized focus: Fast, fine and smooth linear focus

Zoom: 5 °- 40°

Wash mode: Uniform and wide range wash

Prism: 3 facet prism with bi-direction rotation

Frost: 0-100% linear frost

5%-100% Iris

Fixed gobo: 10 gobos + white with gobo shaking

Rotating gobo: 7 gobos+ white with gobo shaking (2 glass+5 metal)

Rotating gobo: Φ21.8mm - Image: Φ19.0mm

Color wheel: 3 color wheels, 4 color+ white on each wheel, half color and continues color position, bi-direction rainbow effect. CMY color mixing

Strobe: 1-25hz, random and pulse flash

Dimmer: 0-100% linear

### **Movement**

Pan/Tilt: 540° / 270 °

Pan/Tilt resolution: 16 bit

Automatic repositioning of Pan and Tilt after accidental movement

## Control

Control mode: DMX512

Channel: Basic 22 / Standard 27 / Extend 30

## MENU

LCD display

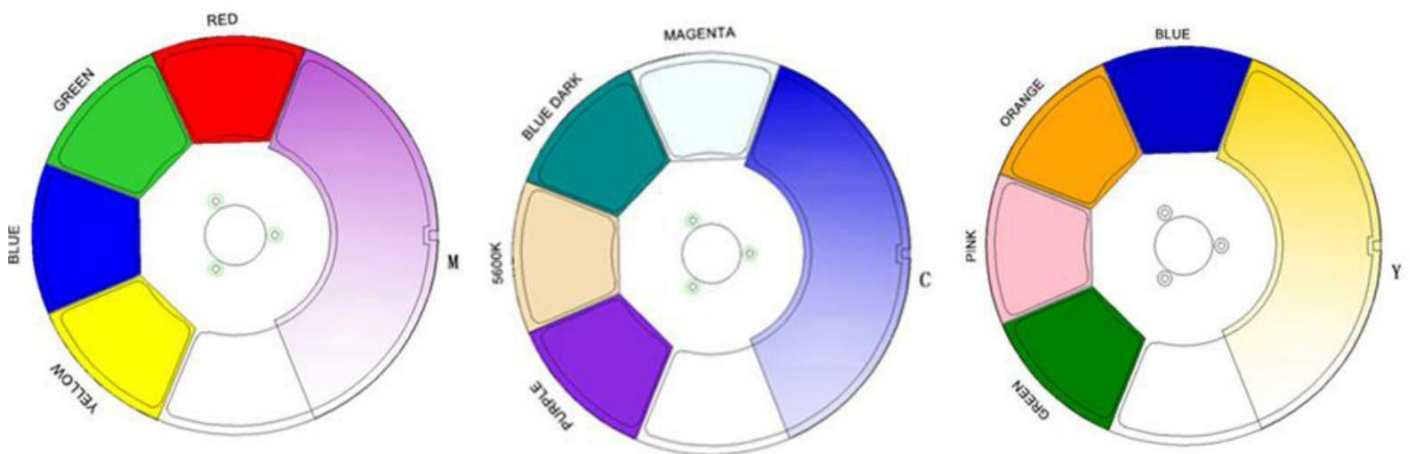
DMX: 3 pin + 5 pin in & out

IP rate: IP20

Fixture Size: 432\*321\*675mm

Weight: 23kg

**COLOR WHEEL:**



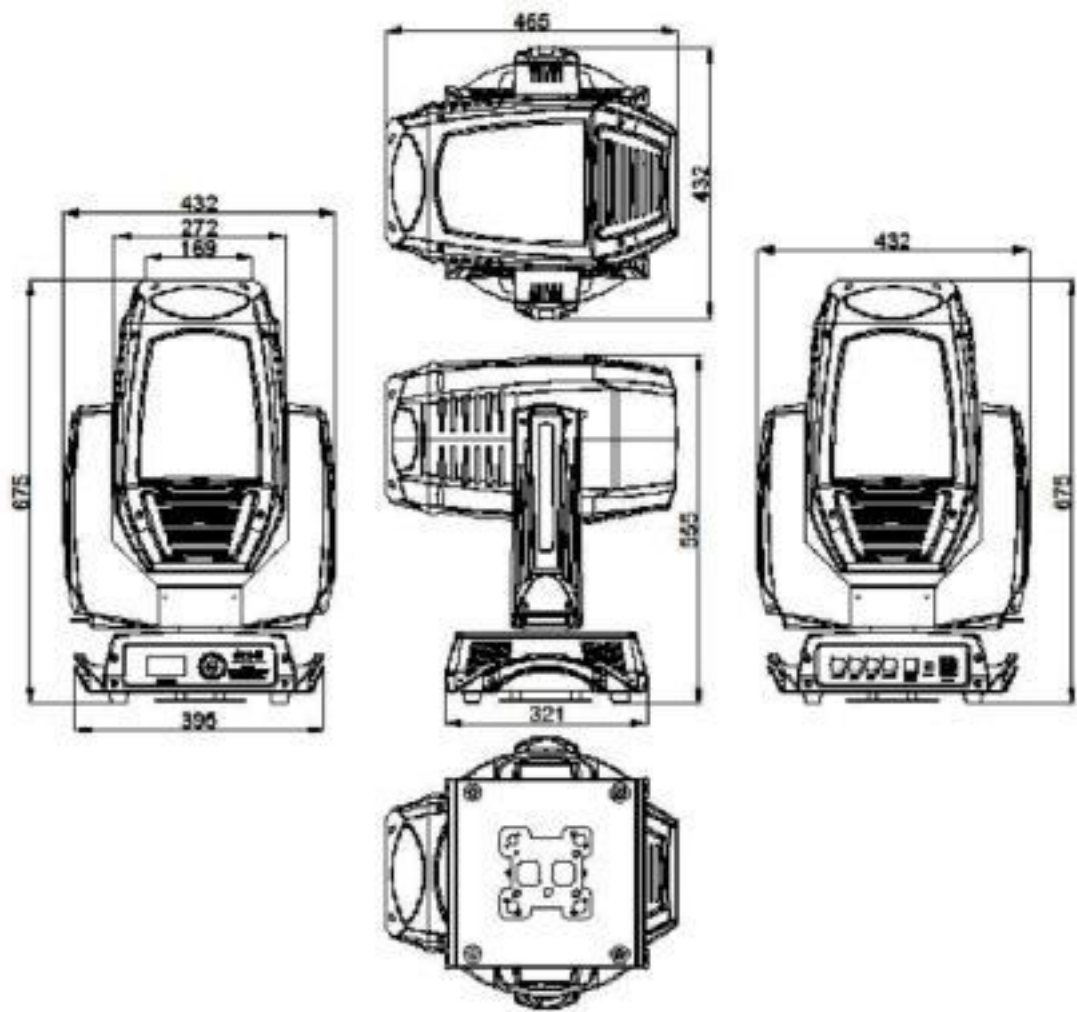
### FIXED GOBO WHEEL:



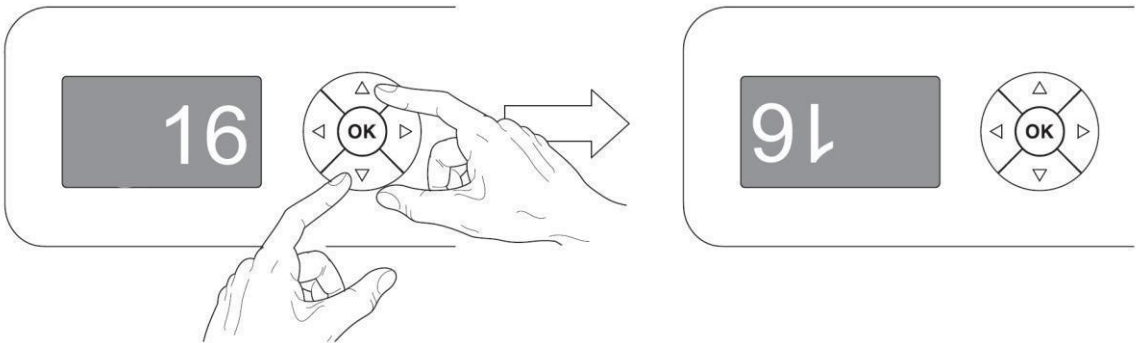
## ROTATING GOBO WHEEL:



**Fixture Size**



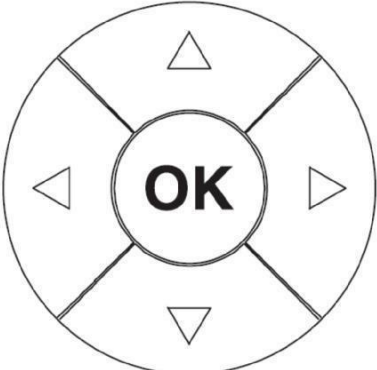





**FUNCTIONS OF BUTTONS**





## Reversal of the display

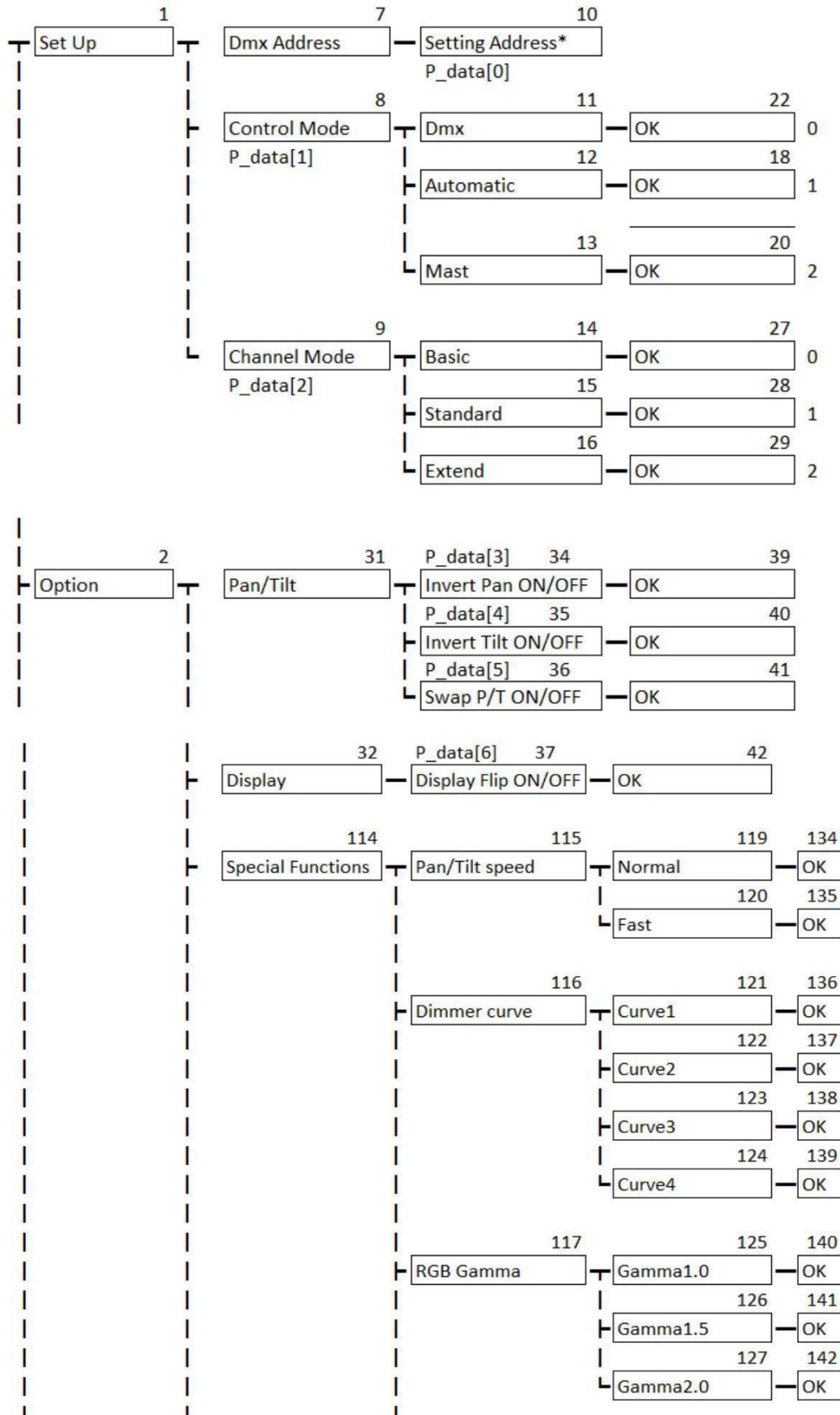
To activate this function, press UP and DOWN keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

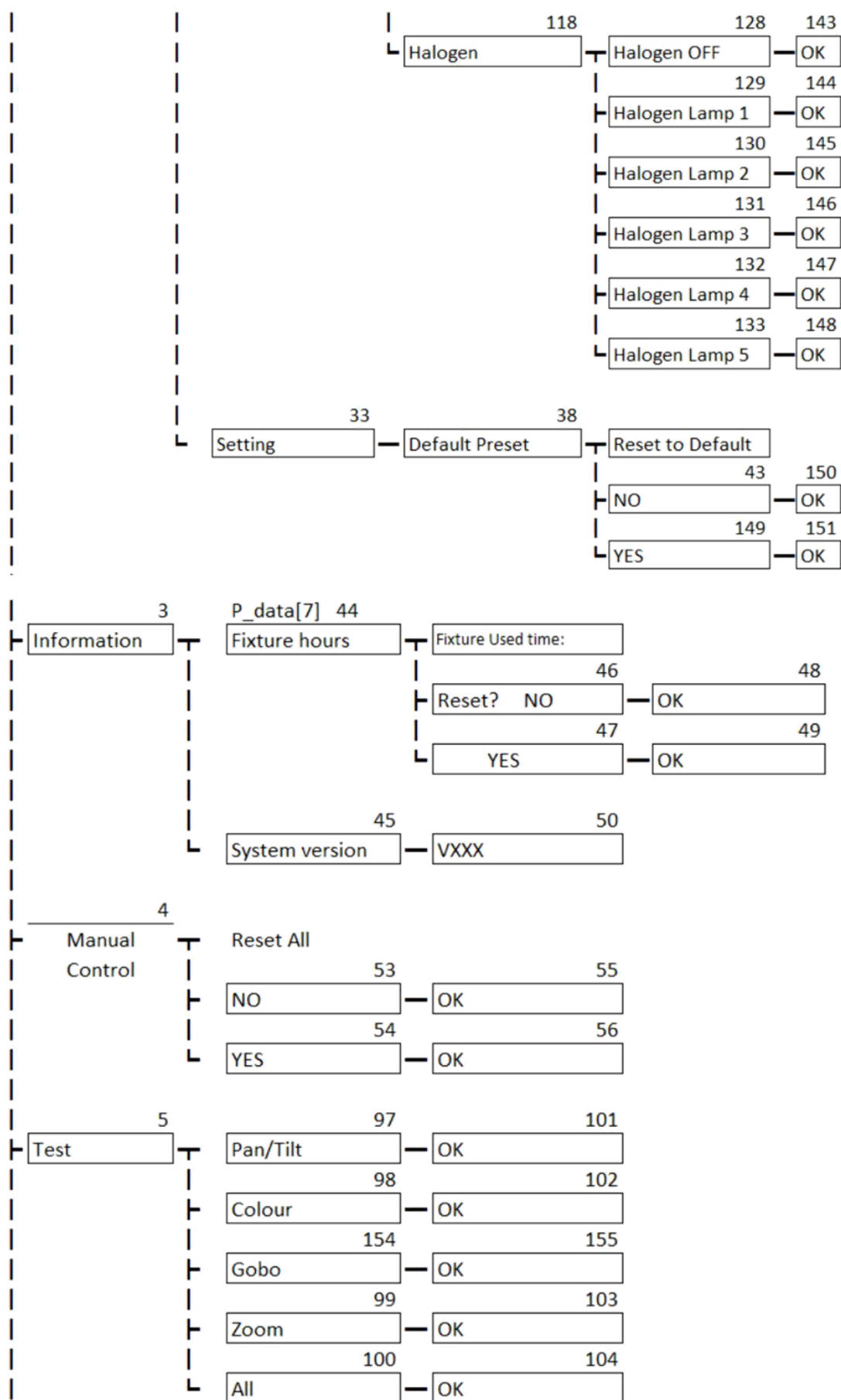
	 Confirms the displayed value, or activates the displayed function, or enters the successive menu.
	 Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.
	 Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.
	 Return 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
  - Information (Information 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.

# MANU SETTING





	6	P_data[11] 57	71
L	Advanced	Adjust Pan	+ - XXX
(need password 988)		P_data[12] 58	72
109	L	Adjust Tilt	+ - XXX
		P_data[13] 59	73
		Adjust Cyan	+ - XXX
		P_data[14] 60	74
		Adjust Magenta	+ - XXX
		P_data[15] 61	75
		Adjust Yellow	+ - XXX
		P_data[16] 62	76
		Adjust St Gobo	+ - XXX
		P_data[17] 63	77
		Adjust Rot Gobo	+ - XXX
		P_data[18] 64	78
		Adjust Gobo Rot	+ - XXX
		P_data[19] 65	79
		Adjust Iris	+ - XXX
		P_data[20] 66	80
		Adjust Prism	+ - XXX
		P_data[21] 67	81
		Adjust Prism Rot	+ - XXX
		P_data[22] 68	82
		Adjust Frost	+ - XXX
		P_data[23] 69	83
		Adjust Focus	+ - XXX
		P_data[24] 70	84
		Adjust Zoom	+ - XXX
		P_data[24] 152	153
		Adjust Dimmer	+ - XXX

## DMX CHANNELS

CH	BASIC	STAND	EXTEND
1	CYAN COLOUR WHEEL	CYAN COLOUR WHEEL	CYAN COLOUR WHEEL
2	MAGENTA COLOUR WHEEL	MAGENTA COLOUR WHEEL	MAGENTA COLOUR WHEEL
3	YELLOW COLOUR WHEEL	YELLOW COLOUR WHEEL	YELLOW COLOUR WHEEL
4	COLOUR1	COLOUR 1	COLOUR 1
5	COLOUR 2	COLOUR 2	COLOUR 2

6	COLOUR3	COLOUR 3	COLOUR 3
7	STOPPER/STROBE	STOPPER/STROBE	STOPPER/STROBE
8	DIMMER	DIMMER	DIMMER
9	IRIS	DIMMER FINE	DIMMER FINE
10	STATIC GOBO CHANGE	IRIS	IRIS
11	ROTATING GOBO SELECT	STATIC GOBO CHANGE	IRIS FINE
12	GOBO ROTATION	ROTATING GOBO SELECT	STATIC GOBO CHANGE
13	PRISMS INSERTION	GOBO ROTATION	ROTATING GOBO SELECT
14	PRISMS ROTATION	FINE GOBO ROTATION	GOBO ROTATION
15	FROST	PRISMS INSERTION	FINE GOBO ROTATION
16	FOCUS	PRISMS ROTATION	PRISMS INSERTION
17	ZOOM	FROST	PRISMS ROTATION
18	PAN	FOCUS	PRISMS ROTATION FINE
19	TILT	FOCUS FINE	FROST
20	COLOUR MACRO	ZOOM	FOCUS
21	FUNCTION	PAN	FOCUS FINE
22	RESET/LAMP CONTROL	FINE PAN	ZOOM
23		TILT	ZOOM FINE
24		FINE TILT	PAN
25		COLOUR MACRO	FINE PAN
26		FUNCTION	TILT
27		RESET/LAMP CONTROL	FINE TILT
28			COLOUR MACRO
29			FUNCTION
30			RESET/LAMP CONTROL

Ba	ST	EX		
1	1	1		<b>CYAN COLOUR WHEEL</b>
			0 - 255	Linear Cyan movement
2	2	2		<b>MAGENTA COLOUR WHEEL</b>
			0 - 255	Linear Magenta movement
3	3	3		<b>YELLOW COLOUR WHEEL</b>
			0 - 255	Linear Yellow movement
4	4	4		<b>COLOUR 1</b>
			0	Empty
			34	Empty + Color1
			65	Color1
			96	Color1 + Color2
			128	Color2
			160	Color2 + Color3
			190	Color3
			222	Color3 + Color4
			255	Color4

<b>5</b>	<b>5</b>	<b>5</b>		<b>COLOUR 2</b>
			0	Empty
			34	Empty + Color5
			65	Color5
			96	Color5 + Color6
			128	Color6
			160	Color6 + Color7
			190	Color7
			222	Color7 + Color8
			255	Color8
<b>6</b>	<b>6</b>	<b>6</b>		<b>COLOUR 3</b>
			0	Empty
			34	Empty + Color9
			65	Color9
			96	Color9 + Color10
			128	Color10
			160	Color10 + Color11
			190	Color11
			222	Color11 + Color12
			255	Color12
<b>7</b>	<b>7</b>	<b>7</b>		<b>STOPPER/STROBE</b>
			0-3	Light OFF
			4 - 103	Strobe at linearly variable frequency from low(1flash/sec) to high(12flashes/sec)
			104 - 107	Light ON
			108 - 207	Pulsation at linearly variable speed From slow(0.5flash/sec) to fast(12flashes/sec)
			208 - 212	Light ON
			213 - 225	Random Strobe at low frequency
			226 - 238	Random Strobe at medium frequency
			239 - 251	Random Strobe at high frequency
			252 - 255	Light ON
<b>8</b>	<b>8</b>	<b>8</b>		<b>DIMMER</b>
			0 - 255	
	<b>9</b>	<b>9</b>		<b>DIMMER FINE</b>
			0 - 255	
<b>9</b>	<b>10</b>	<b>10</b>		<b>IRIS</b>
			0 - 191	Max diameter to min diameter
			192 - 223	Jump close from fast to slowly
			224 - 255	Jump open from slowly to fast

		<b>11</b>		<b>IRIS FINE</b>
			0 - 255	
<b>10</b>	<b>11</b>	<b>12</b>		<b>STATIC GOBO CHANGE</b>
			0 - 9	Empty position
			10 - 18	Gobo 1
			19 - 25	Gobo 2
			26 - 33	Gobo 3
			34 - 41	Gobo 4
			42 - 49	Gobo 5
			50 - 57	Gobo 6
			58 - 65	Gobo 7
			66 - 73	Gobo 8
			74 - 81	Gobo 9
			82 - 89	Gobo 10
			90 - 97	Gobo 1 shake at variable speed from slow to fast
			98 - 105	Gobo 2 shake at variable speed from slow to fast
			106 - 113	Gobo 3 shake at variable speed from slow to fast
			114 - 121	Gobo 4 shake at variable speed from slow to fast
			122 - 129	Gobo 5 shake at variable speed from slow to fast
			130 - 137	Gobo 6 shake at variable speed from slow to fast
			138 - 145	Gobo 7 shake at variable speed from slow to fast
			146 - 153	Gobo 8 shake at variable speed from slow to fast
			154 - 161	Gobo 9 shake at variable speed from slow to fast
			162 - 169	Gobo 10 shake at variable speed from slow to fast
			170 - 204	Continuous gobo wheel clockwise rotation at linearly variable speed from fast to slow
			205 - 220	Stop
			221 - 255	Continuous gobo wheel counter clockwise rotation at linearly variable speed from slow to fast
<b>11</b>	<b>12</b>	<b>13</b>		<b>ROTATING GOBO SELECT</b>
			0 - 10	Empty position
			11 - 20	Gobo 1
			21 - 30	Gobo 2
			31 - 40	Gobo 3
			41 - 50	Gobo 4
			51 - 60	Gobo 5
			61 - 70	Gobo 6
			71 - 80	Gobo 7
			81 - 90	Gobo 1 shake at variable speed from slow to fast
			91 - 100	Gobo 2 shake at variable speed from slow to fast
			101 - 110	Gobo 3 shake at variable speed from slow to fast
			111 - 120	Gobo 4 shake at variable speed from slow to fast
			121 - 130	Gobo 5 shake at variable speed from slow to fast
			131 - 140	Gobo 6 shake at variable speed from slow to fast
			141 - 150	Gobo 7 shake at variable speed from slow to fast

			151 - 190	Continuous gobo wheel clockwise rotation at linearly variable speed from fast to slow
			191 - 215	Stop
			216 - 255	Continuous gobo wheel counter clockwise rotation at linearly variable speed from slow to fast
12	13	14		<b>GOBO ROTATION</b>
			0 - 127	Gobo indexing 0°~360°
			128 - 190	Continuous gobo rotation at linearly variable speed from fast to slow
			191 - 192	Stop
			193 - 255	Continuous gobo rotation at linearly variable speed from slow to fast
	14	15		<b>FINE GOBO ROTATION</b>
			0 - 255	Fine gobo indexing
13	15	16		<b>PRISM INSERTION</b>
			0 - 127	open
			128 - 255	Prism insertion
14	16	17		<b>PRISMS ROTATION</b>
			0 - 127	Rotating position
			128 - 189	Forwards gobo rotation from fast to slow
			190 - 193	No rotation
			194 - 255	Backwards gobo rotation from slow to fast
		18		<b>PRISMS ROTATION FINE</b>
			0 - 255	Rotating position fine
15	17	19		<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
16	18	20		<b>FOCUS</b>
			0 - 255	Focus moves linearly from far to near position
	19	21		<b>FOCUS FINE</b>
			0 - 255	Fine focus positioning
17	20	22		<b>ZOOM</b>
			0 - 255	Zoom moves linearly from narrow to wide beam
		23		<b>ZOOM FINE</b>
			0 - 255	Fine zoom positioning
18	21	24		<b>PAN</b>
			0 - 255	Pan Movement by 540°
	22	25		<b>FINE PAN</b>
			0 - 255	Fine Control of Pan movement



19	23	26		<b>TILT</b>
			0 - 255	Tilt Movement by 250°
	24	27		<b>FINE TILT</b>
			0 - 255	Fine control of Tilt movement
20	25	28		<b>COLOUR MACRO</b>
21	26	29		<b>FUNCTION</b>
22	27	30		<b>RESET/LAMP CONTROL</b>
			0 - 20	No use
			21 - 30	Pan / Tilt reset
			31 - 40	CMY reset
			41 - 50	Gobo reset(Static Gobo / Rot Gobo / Gobo Rot reset)
			51 - 60	Prism / Prism Rot / Iris / Frost / Focus / Zoom reset
			61 - 70	Total reset
			71 - 255	No use

## IMPORTANT

To prevent accidental breakage of the effects, which could collide with each others during transport, before switching the projector OFF, check that all the fixture Channels have been excluded (DMX level = 0 bit.).

Remember to-Off'the'bulb,Switch'before to -Off''Switchthefixture.

## REMARK

The product has perfect performance and integrity packaging. 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.