BRIGHTER LIGHTING SP. Z O.O.
ul. Warszawska 111
32-087 Bibice
POLAND
NIP: 9442248196
REGON: 361197164

USER MANUAL

BRIGHTER SMART HYBRID 400 PRO

USER MANUAL

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 for future reference.

Please read the instructions carefully before use!

Scan for **Downloads & Support**

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1. SAFETY PRECAUTIONS

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Manufacturer is not responsible for injuries and damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage personal injury.

- **PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED**
- **THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.DO NOT ATTEMPT ANY REPAIRS YOURSELF,AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS**
- **DO NOT PLUG FIXTURE INTO A DIMMER PACK**
- **NEVER OPEN THIS FIXTURE WHILE IN USE**
- **UNPLUG POWER BEFORE SERVICING FIXTURE**
- **NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE**
- **NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE AT WORK**
- **RETINA INJURY RISK - MAY INDUCE BLINDNESS**
- **SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK**
- **ENSURE THAT ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT**
- **KEEP APPROPRIATE DISTANCE FROM OBJECTS/SURFACES 1 METER**
- **MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C)**
- **DO NOT TOUCH THE FIXTURE HOUSING DURNING OPERATION. TURN OFF THE POWER AND ALLOW APPROXIMATELY 15 MINUTES FOR THE FIXTURE TO COOL DOWN BEFORE SERVICING**
- **DO NOT SHAKE FIXTURE , AND AVOID BRUTE FORCE WHEN INSTALLING OPERATING**
- **DO NOT OPERATE FIXTURE IF THE POWER CORD IS FRAYED, CRIMPED, DAMAGED OR IF ANY OF THE POWER CORD CONNECTORS ARE DAMAGED AND DO NOT INSERT INTO THE FIXTURE SECURELY WITH EASEY**
- **NEVER FORCE A POWER CORD CONNECTOR INTO THE FIXTURE. IF THE POWER CORD OR ANY OF ITS CONNECTORS ARE DAMAGED, REPLACE IT IMMEDIATELY WITH A NEW ONE OF THE SAME POWER RATING**
- **DO NOT BLOCK ANY AIR VENTILATION SLOTS**

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- **ALL FAN AND AIR INLETS MUST REMAIN CLEAN AND NEVER BLOCKED**
- **ALLOW APPROX. 6" (15CM) BETWEEN FIXTURE AND OTHER DEVICES OR A WALL FOR PROPER COOLING**
- **ALWAYS DISCONNECT FIXTURE FROM MAIN POWER SOURCE BEFORE PERFORMING ANY TYPE OF CLEANING PROCEDURE**
- **ONLY HANDLE THE POWER CORD BY THE PLUG END. NEVER PULL OUT THE PLUG BY TUGGING THE WIRE PORTION OF THE CORD**
- **CONSISTENT OPERATIONAL BREAKS WILL ENSURE FIXTURE WILL FUNCTION PROPERLY FOR MANY YEARS**
- **ONLY USE THE ORIGINAL PACKAGING AND MATERIALS TO TRANSPORT THE FIXTURE IN FOR SERVICE**
- **DO NOT ALLOW CHILDREN TO OPERATE THE FIXTURE**
- **IN THE EVENT OF SERIOUS OPERATING PROBLEM, STOP USING THE UNIT IMMEDIATELY**
- **NEVER TURN ON AND OFF THE UNIT TIME AFTER TIME**
- **DO NOT OPERATE THIS PRODUCT IF YOU SEE DAMAGE ON THE HOUSING, SHIELDS, OR CABLES. HAVE THE DAMAGED PARTS REPLACED BY AN AUTHORIZED TECHNICIAN AT ONCE.**
- **IN CASE OF DOUBT CONTACT WITH BRIGHTER LIGHTING.**

2. MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

2.1. CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. NEVER use alcohol, solvents, or ammonia-based cleaners .

2.2. MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized our service technician. Should you need any spare parts, please order genuine parts from your local dealer.

Please refer to the following points during routine inspections:

• A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating

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• Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall

• Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s)

• Electric power supply cables must not show any damage, material fatigue or sediments. NEVER remove the ground prong from the power cable

3.INSTALLATION GUIDELINES

- The fixture can be mounted in any position.
- The fixture has built-in folding clamps
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.
- Be sure that the safety cable is connected to a solid load-bearing structure.

4.SYSTEM MENU

Main Menu	Sub Menu	Option/Value	Option/Value
DMX	Address	001-512	
		Prev	Shitf address back by 22
		Next	Shitf address next by 22
	Channel	022CH	
	Control Mode	DMX	
		Auto	
		Sound	
		Scene	
	Scene mode	Auto	
		Scene01-10	
	M/S choose	Slave	
		Master	
		Auto	
	P/T rectify	Off	
		On	
	Data hold	Off	
		On	
SET	Fan speed	Silent	
		Auto	
		Full	
	Pan Invert	Off	
		On	
	Tilt invert	Off	

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		On	
	Scene time multiple	000-255	
	Reset	Cancel	
		Confirm	
	Scene	Scene Select	001-010
		Scene Time	000-255
		Control Mode	Off
			On
		1.Pan	000-255
		2.Pan Fine	000-255
		3.Tilt	000-255
		4.Tilt Fine	000-255
		5.PT Spd	000-255
		6.Dimmer	000-255
		7.Strobe	000-255
		8.Colour	000-255
		9.Cyan	000-255
		10.Magenta	000-255
		11.Yellow	000-255
		12.CTO	000-255
		13.Gobo	000-255
		14.Rot Gobo	000-255
		15.Gobo Rot	000-255
		16.Prism1	000-255
		17.Prism1 .R	000-255
		18.Frost1	000-255
		19.Focus	000-255
		20.Zoom	000-255
		21.Zoom F	000-255
		37.Reset	000-255
	Display	Language	Chinese
			English
		Screen Saver	Off
			Mode 1
			Mode 2
			Mode 3
		Screen Rot	Reverse
			Forward
			Auto
		DMX Indicate	Mode 1
			Mode 2
			Mode 3
		Signal Bright	001-010
		Screen Light	001-010

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	Wireless	Wireless Enable	On
			Off
		Wireless Type	RX (All Modes)
			CRMX TX
			W-DMX G3 TX
			W-DMX G4S TX
		Receive Reset (Enable only when working as RX)	Link
			Unlink
		Transmit (Enable only when working as TX)	Link
			Unlink
	Calibration	Password	
	Factory Setting	Cancel	
		Confirm	
SYS	Motor Info		
	Fault logging		
	Device status		
	Version		
	Run time		
	Serial number		
NET	Operaton choose	DMX	
		NET&DMX	
		ARTNET	
	IP	xxx.xxx.xxx.xxx	After change address please wait 40 seconds and restart the fixture
	Mask	xxx.xxx.xxx.xxx	After change mask please wait 40 seconds and restart the fixture
	Universe	00000-30000	After change universe please wait 40 seconds and restart the fixture
	DHCP	Off	
		On	
	sACN	Off	
		On	

5.DMX CHART

22Ch

CH	Value	Function	Description
1CH	0-255	Pan	-270°- 270°
2CH	0-255	Pan Fine	16 bit adjustable
3CH	0-255	Tilt	-135°- 135°

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4CH	0-255	Tilt Fine	16 bit adjustable
5CH	0-255	Pan/Tilt speed	Fast to slow
6CH	0-255	Master Dimmer	Dark to light
7CH	0-255	Strobe	
	0-5	Open	
	6-55	Synchronous strobe	The larger value, the faster speed
	56-105	Pulse strobe	The larger value, the faster speed
	106-155	Random strobe	The larger value, the faster speed
	156-205	Pulse open	The larger value, the faster speed Dark to light
	206-255	Pulse close	The larger value, the faster speed Light to dark
8CH	0-255	Colour Wheel	
	0-9	White	
	10-19	Red	
	20-29	Green	
	30-39	Blue	
	40-49	Yellow	
	50-59	Orange	
	60-69	Magenta	
	70-79	CTO	
	80-139	Linear wheel adjusting	
	140-203	Forward flow from fast to slow	
	204	Stop	
	205-255	Reverse flow froms slow to fast	
CH9	0-255	Cyan	
CH10	0-255	Magenta	
CH11	0-255	Yellow	
CH12	0-255	CTO	
CH13	0-255	Static Gobo	
	0-9	Open	
	10-19	Gobo 1	
	20-29	Gobo 2	
	30-39	Gobo 3	
	40-49	Gobo 4	
	50-59	Gobo 5	
	60-69	Gobo 6	
	70-79	Gobo 7	
	80-89	Gobo 8	
	90-99	Gobo 9	

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	100-109	Gobo 9 Shake	
	110-119	Gobo 8 Shake	
	120-129	Gobo 7 Shake	
	130-139	Gobo 6 Shake	
	140-149	Gobo 5 Shake	
	150-159	Gobo 4 Shake	
	160-169	Gobo 3 Shake	
	170-179	Gobo 2 Shake	
	180-189	Gobo 1 Shake	
	190-222	CW Rot Fast to slow	
	223	Stop	
	224-255	CCW Rot slow to fast	
14CH	0-255	Rot Gobo	
	0-9	Open	
	10-19	Gobo 1	
	20-29	Gobo 2	
	30-39	Gobo 3	
	40-49	Gobo 4	
	50-59	Gobo 5	
	60-69	Gobo 6	
	70-79	Gobo 7	
	80-89	Gobo 7 Shake	
	90-99	Gobo 6 Shake	
	100-109	Gobo 5 Shake	
	110-119	Gobo 4 Shake	
	120-129	Gobo 3 Shake	
	130-139	Gobo 2 Shake	
	140-149	Gobo 1 Shake	
	150-199	Cw Rot Fast to slow	
	200	Stop	
	201-255	CCW Rot Slow to fast	
15CH	0-255	Gobo Rotation	
	0-127	0-360(degree)	
	128-191	Rotate reverse (fast to slow)	
	192	Stop	
	193-255	Rotate forward (slow to fast)	
16CH	0-255	Prism	
	0-127	Prism Off	

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	128-255	Prism On	8-facet circular
CH17	0-255	Prism Rot	
	0-127	0-360(degree)	
	128-191	CW Rot	Fast to slow
	192	Stop	
	193-255	CCW Rot	Slow to fast
CH18	0-255	Frost	
	0-127	Frost Off	
	128-255	Frost On	
CH19	0-255	Focus	
CH20	0-255	Zoom	Narrow to Wide
CH21	0-255	Zoom Fine	16 bit adjustable
CH22	0-255	Control	The value must stop for 5 seconds to make Effect
	0-66	No effect	Menu set, no change
	67-71	Fan Mode	Auto
	72-76		Silent
	77-81		Full
	82-200	No Function	
	201-215	Effect motor reset	
	216-230	Pan/Tilt motor reset	
	231-245	Overall reset	
	246-255	No Function	

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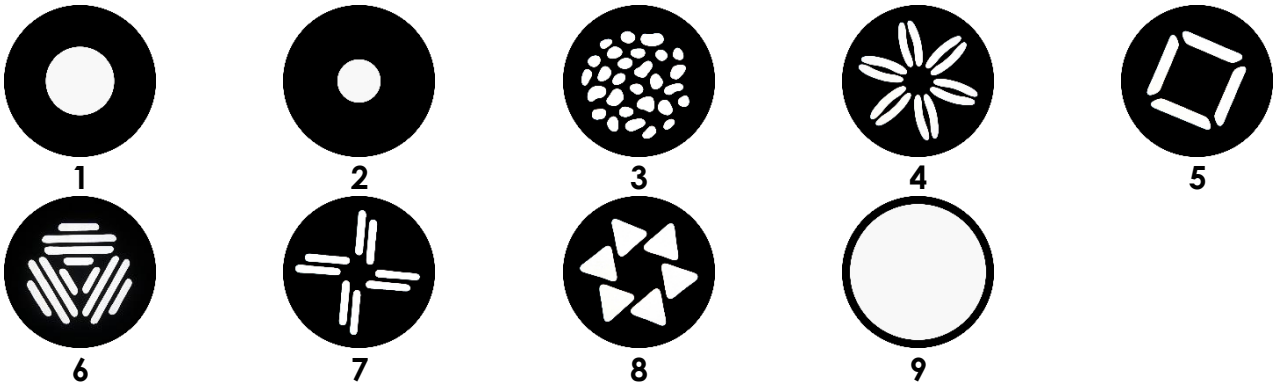
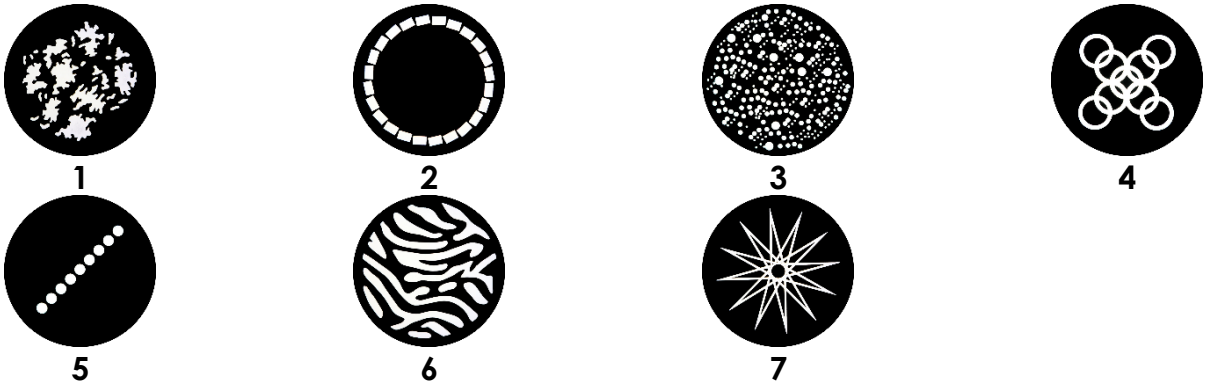
Static Gobo Wheel in order:



Rot Gobo Wheel in order:



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6.SPECIFICATIONS

CONSTRUCTION/PHYSICAL

Dimensions:
255x324x570mm
Weight: 13,7 Kg
Exterior Color: Black
Housing material: Aluminium profile + high-quality plastic
Ptotection rating: IP20

DYNAMIC EFFECTS

Dimmer: Electronic
Shutter/Strobe: Electronic
Strobe Rate: 1-25Hz
Standalone: Yes
Colour Mixing: CMY+CTO
Colour Wheel: 6 colors + white
Frost: Yes
Fixed gobos: 9 fixed patterns
Rotating gobos: 7 glass patterns
Prism: 8-facet circular prism
Pan movement: 540°, 16 bit
Tilt movement: 270°, 16 bit

CONNECTIONS

Power Connection: PowerCon
True1
DMX Connection: XLR 5-pin
Art-Net Connection: RJ-45

CONTROL

Control Protocols:
DMX/ArtNet/sACN/RDM
DMX Channels: 22CH
Build-in Effects: Yes
Wireless DMX

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ELECTRICAL

Power Supply Voltage: 100-240V 50/60Hz
Maximum Power Consumption: 420W
Light Source 400W LED ,7500K
CRI: >75Ra (2700K-7800K)

OPTIC

Zoom: 3°-30°
Focus: Electronic

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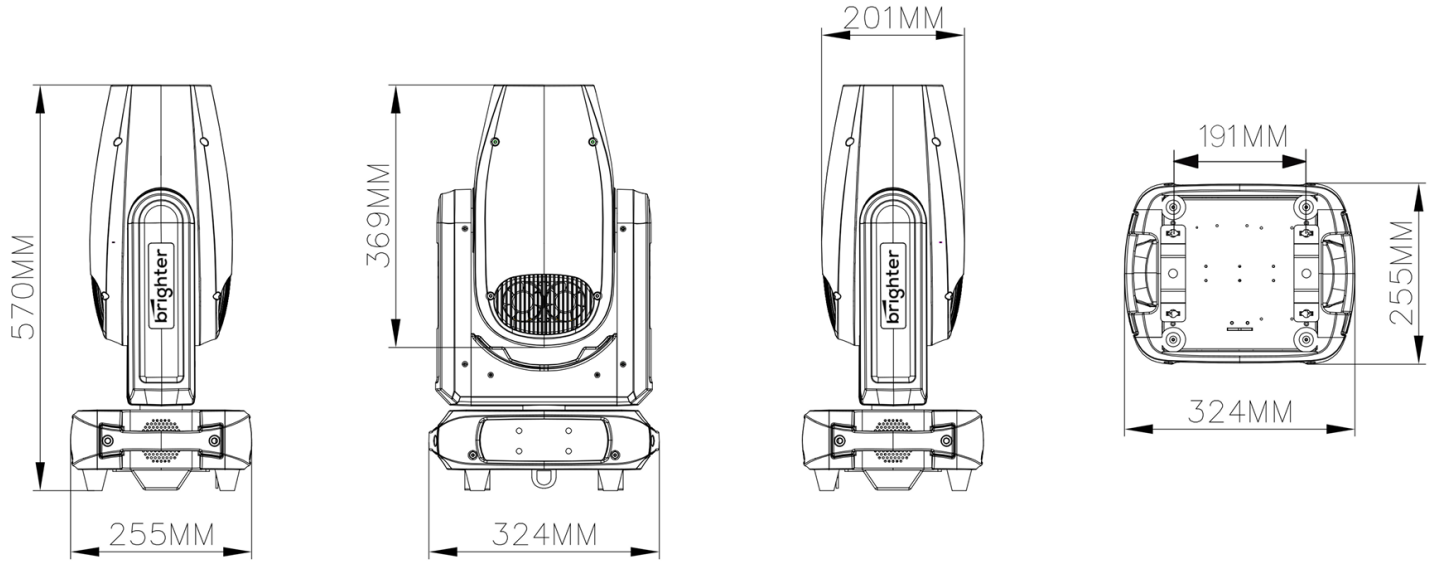
7.DIMENSIONAL DRAWINGS



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The manufacturer reserves the right to make changes to technical parameters