

USER MANUAL

SMART HYBRID 300 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!

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**
- **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
- 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 | Shift address back by 22 |
| | | Next | Shift 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 | |

| | | | |
|-----|---------------------|--------------|---------|
| SET | | On | |
| | Fan speed | Silent | |
| | | Auto | |
| | | Full | |
| | Pan Invert | Off | |
| | | On | |
| | Tilt invert | Off | |
| | | 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 |
| | Calibration | Password | |
| SYS | Factory Setting | Cancel | |
| | | Confirm | |
| | | | |
| | Motor Info | | |
| | Fault logging | | |
| | Device status | | |
| NET | Version | | |
| | Run time | | |
| | Serial number | | |
| | 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

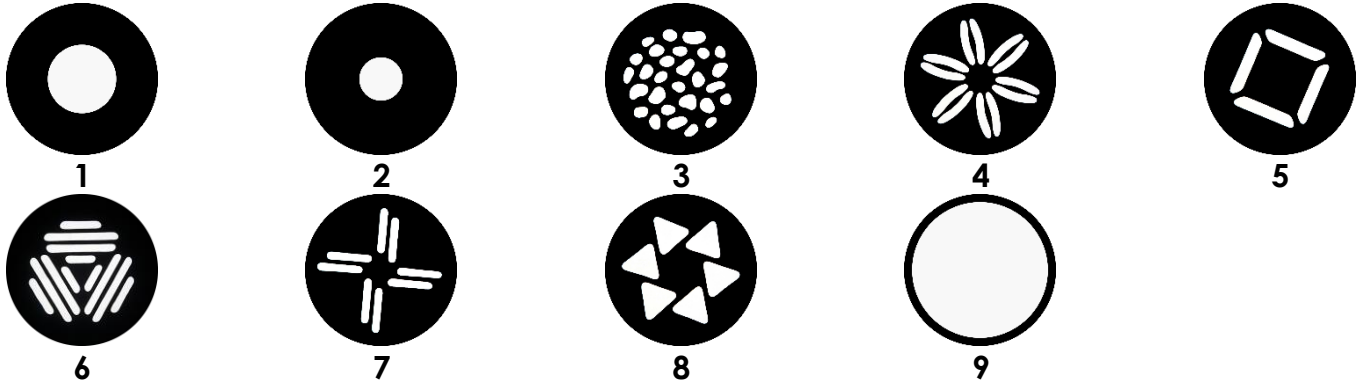
22Ch

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

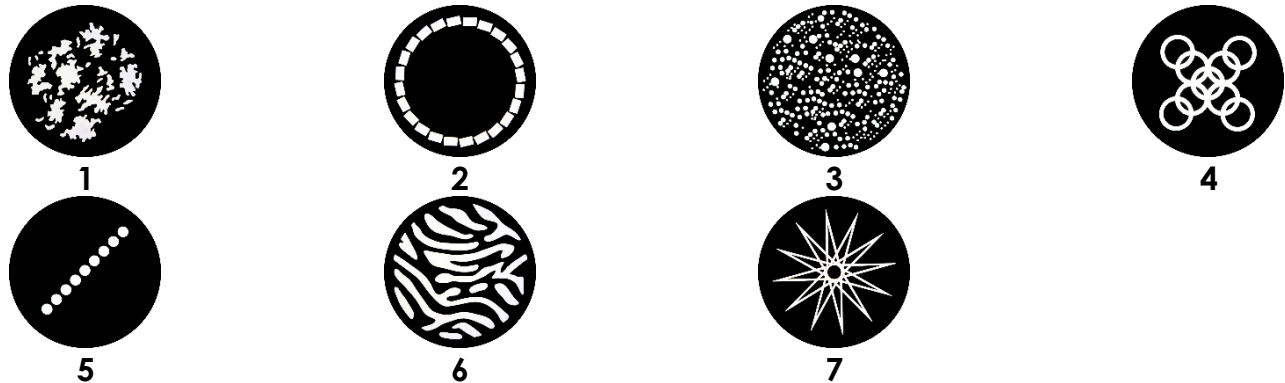
| | | | |
|------|---------|----------------------|--|
| CH11 | 0-255 | Yellow | |
| CH12 | 0-255 | CTO | |
| CH13 | 0-255 | Static Gobo | |
| | 0-9 | Open | |
| | 10-19 | Gobo 1 | |
| | 20-29 | Gobo 2 | |
| | 30-39 | Gobo 3 | |
| | 40-49 | Gobo 4 | |
| | 50-59 | Gobo 5 | |
| | 60-69 | Gobo 6 | |
| | 70-79 | Gobo 7 | |
| | 80-89 | Gobo 8 | |
| | 90-99 | Gobo 9 | |
| | 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 | |
| | 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 | |

Static Gobo Wheel in order:



Rot Gobo Wheel in order:



6.SPECIFICATIONS

CONSTRUCTION/PHYSICAL

Dimensions: 255x324x570mm

Weight: 13,7 Kg

Exterior Color: Black

Housing material: Aluminium profile + high-quality plastic

Protection 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

ELECTRICAL

Power Supply Voltage: 100-240V 50/60Hz

Maximum Power Consumption: 320W

Light Source 300W LED ,8000K

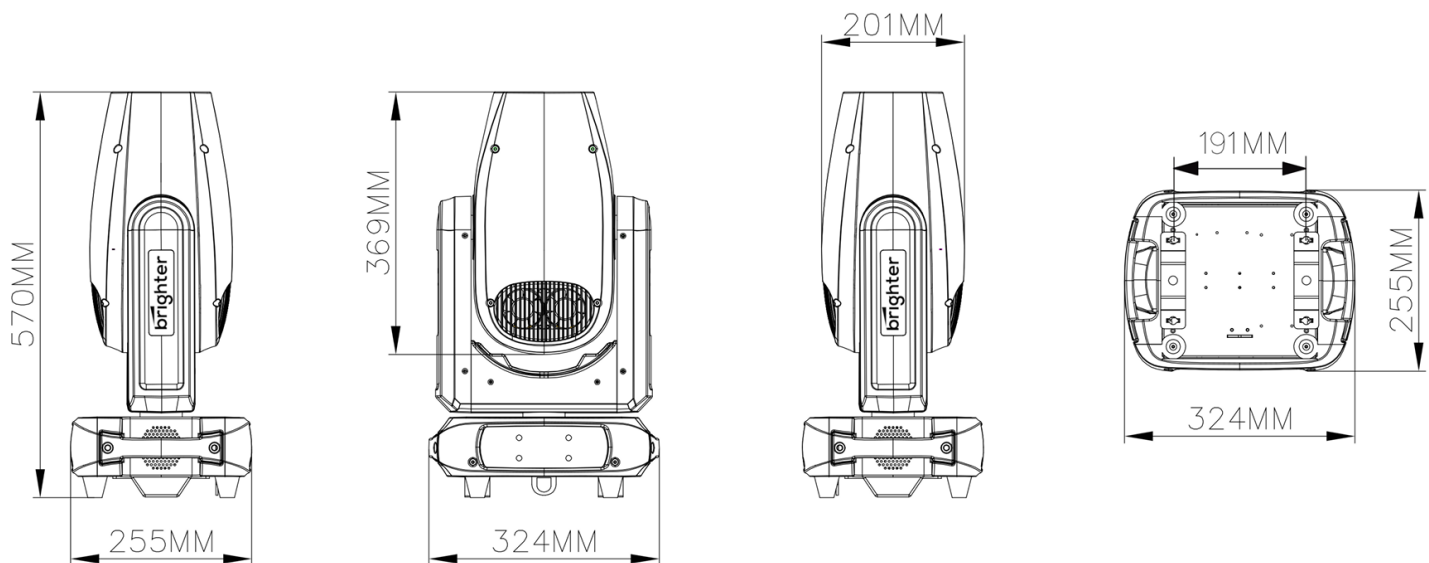
CRI: >70Ra

OPTIC

Zoom: 3°-30°

Focus: Electronic

7.DIMENSIONAL DRAWINGS





BRIGHTER LIGHTING SP. Z O.O.

ul. Warszawska 111

32-087 Bibice

POLAND

NIP: 9442248196

REGON: 361197164

The manufacturer reserves the right to make changes to technical parameters

