X300 BSW

300W LED

USER MANUAL

Keep this manual for future needs

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Caution!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!

Avoid looking directly into the light source!
Wear protective glasses and other PPE (personal protective equipment) when working on or near the fixture.

Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.Make sure it is grounded when using it!

Unplug mains lead before opening the housing!
Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the powercord from time to time.
Make sure to replace the fuse with another of the same type and rating.

For your own safety, please read this user manual carefully before you initial start-up.
Follow operating safety precautions and pay attention to warning signs methods and equipment on the user manual.

Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.

Indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. IP 20 rating.
The ambient temperature must always be between -5° C and +45° C.

Every person involved with the installation, operation and maintenance of this device has to
- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

Introduction

Thank you for having chosen X300 BSW. You will see you acquired a powerful and versatile device.
Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

Safety instructions

This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

This device has left our premises in absolutely perfect condition. Always disconnect from the mains, when the device is not in use or before cleaning it. Keep away children and amateurs from the device! There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers.

Installation

Read 'Safety information' before installing the fixture

The fixture is designed for indoor use only and must be used in a dry location with adequate ventilation. Ensure that none of the fixture's ventilation slots are blocked.

Fasten the fixture to a secure structure or surface. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed in this user manual using a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

Fastening the fixture to a flat surface

The fixture can be fastened to a hard, fixed, flat surface that is oriented at any angle. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment to be installed on it.

Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed below with a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

Mounting the fixture on a truss

The fixture can be clamped to a truss or similar rigging structure in any orientation. When installing the fixture hanging vertically down, you can use an open-type clamp such as a G-clamp. When installing in any other orientation, you must use a half-coupler clamp that completely encircles the truss chord.

To clamp the fixture to a truss:

1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it.
2. Block access under the work area.
3. Fold the legs of the mounting bracket together and bolt a rigging clamp securely to the mounting bracket. The bolt used must be M10. It must pass through both mounting bracket legs and be fastened with a self-locking nut.
4. Working from a stable platform, hang the fixture with its clamp on the truss and fasten the clamp securely.
5. Secure the fixture with a safety cable as directed below.

Securing with a safety cable

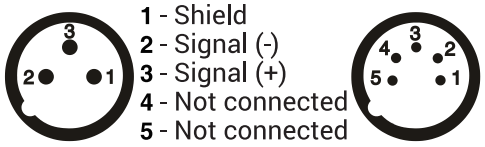
Secure the fixture with a safety cable (or other secondary attachment) that is approved for the weight of the fixture so that the safety cable will hold the fixture if a primary attachment fails.

Loop the safety cable through the eyebolt in the back of the fixture and around a secure anchoring point. Do not loop the safety cable around the fixture's mounting bracket only, as this will leave the fixture unsecured if it separates from the bracket.

DMX-512 connection/connection between fixtures

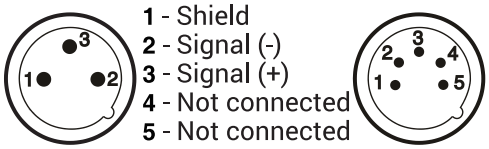
Occupation of the XLR-connection:

DMX - output
XLR mounting-sockets (rear view):



1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

DMX-input
XLR mounting-plugs (rear view):



1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected

If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture.
Always connect one output with the input of the next fixture until all fixtures are connected.

DMX-512 connection with DMX terminator:

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

Connection with the mains:

The X300 BSW is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.

This fixture must be earthed. To use the fixture, a plug must be fixed.
The correct assembly of a sufficient plug may be done by professional persons only.
Connect the device to the mains with the enclosed power supply cable.

The occupation of the connection cables as below:

Cable color	Connection	International
Brown	Live	L
Blue	Neutral	N
Yellow/green	Earth(Ground)	⏚

Control Menu Map

Main Menu	Level 1	Level 2
Addr	Chan	001-512
	Prev	Previous device
	Next	Next device
	Exit	
MODE	DMX	
	Auto	
	Scene	01-10, Auto
	Led_Ctrl	On/Off
	M/S Choose	Auto/Master/Slave
	Exit	
DISP	Language	EN / CH
	Screen Rot	Auto/Close/Open
	Screen Saver	On/Off
	DMX Indicate	Mode1/Mode2
	Screen Light	01-10
	Exit	

SCENE	Control Mode	On/Off
	Scene Select	01-10
	Scene Timer	00:0s-25:5s
	Pan	000-255
	Pan fine	000-255
	Tilt	000-255
	Tilt fine	000-255
	XY speed	000-255
	Reset/255	000-255
	Color wheel	000-255
	Color color fine	000-255
	Gobo	000-255
	Gobo2	000-255
	Gobo Rotation	000-255
	Gobo Rot fine	000-255
	Prism	000-255
	Prism 1 rotation	000-255
	Prism 2 rotation	000-255
	Frost	000-255
	Zoom	000-255
	Zoom fine	000-255
	Focus	000-255
	Focus fine	000-255
	Y Color	000-255
	M Color	000-255
	C Color	000-255
	Strobe	000-255
	Dimmer	000-255
	Exit	
SETUP	Pan Invert	On/Off
	Tilt Invert	On/Off
	Lamp On ST	On/Off
	Optocoupler calibration	On/Off
	Data Hold	On/Off
	CH mode	26CH
	Pan Offset	001-255
	Tilt Offset	001-255
	Scene Timer Multiplier	001-255
	Reset	On/Off
	Factor Setting	On/Off
	Advance	
	Exit	
INFOR	Channel_info	
	Light_time	
	Error_logging	
	Version	At.3.8
	Fixture_Status	
	Use_Limit	
	Exit	

DMX Protocol

26CH	Function	DMX value	Function Control
1	Pan	000-255	Pan Movement 0-540degree
2	Pan fine	000-255	Pan fine
3	Tilt	000-255	Tilt Movement 0-270degree
4	Tilt fine	000-255	Tilt Fine
5	Pan, Tilt Speed	000-255	Pan, Tilt movement speed from fast to slow
6	Function	240-255	Reset after more than 3 seconds
7	Color	000-129	Linear Color adjustment
		130-131	Color 1
		132-136	Color 2
		137-140	Color 3
		141-145	Color 4
		146-149	Color 5
		150-154	Color 6
		155-159	Color 7
		160-163	Color 8
		164-168	Color 9
		169-172	Color 10
		173-177	Color 11
		178-181	Color 12
		182-186	Color 13
		187-191	Color 14
		192-220	Forward flow from fast to slow
		221-255	Reverse flow from slow to fast
8	Color fine	000-255	Enable when CH7 linear dimming
9	Gobo	000-010	Open
		011-022	Gobo 1
		023-033	Gobo 2
		034-045	Gobo 3
		046-056	Gobo 4
		057-068	Gobo 5
		069-079	Gobo 6
		080-091	Gobo 7
		092-102	Gobo 8
		103-114	Gobo 9
		115-125	Gobo 10
		126-137	Gobo 11
		138-164	Forward flow from fast to slow
		165-189	Reverse flow from slow to fast
		190-195	Gobo 1 shake
		196-201	Gobo 2 shake
		202-207	Gobo 3 shake
		208-213	Gobo 4 shake
		214-219	Gobo 5 shake
		220-224	Gobo 6 shake
		225-230	Gobo 7 shake
		231-236	Gobo 8 shake
		237-242	Gobo 9 shake
		243-248	Gobo 10 shake
		249-255	Gobo 11 shake

10	Gobo rotation	000-005	Stop
		006-011	Gobo 1
		012-018	Gobo 2
		019-024	Gobo 3
		025-031	Gobo 4
		032-037	Gobo 5
		038-043	Gobo 6
		044-050	Gobo 7
		051-056	Gobo 8
		057-064	Gobo 9
		065-128	Reverse flow from fast to slow
		129-190	Forward flow from slow to fast
		191-197	Shake1
		198-204	Shake2
		205-211	Shake3
		212-218	Shake4
		219-225	Shake5
		226-232	Shake6
		233-239	Shake7
		240-246	Shake8
		247-255	Shake9
11	Gobo rotation	000-127	0-360°
		128-191	Forward flow from fast to slow
		192	Stop
		193-255	Reverse flow from slow to fast
12	Rotation fine	000-255	0-100%
13	Prism	000-063	Remove prism
		064-127	Insert Prism 1
		128-191	Insert Prism 2
		192-255	Insert Prism 1 Prism 2
14	Prism 1 rotation	000-041	0-360°
		042-127	Reverse flow
		128-190	Forward flow from fast to slow
		191-192	Stop
		193-233	Reverse flow from slow to fast
15	Prism 2 rotation	000-020	0-360°
		021-127	Reverse flow
		128-190	Forward flow from fast to slow
		191-192	Stop
		193-233	Reverse flow from slow to fast
16	Frost	000-127	NO
		128-163	Frost 1
		164-255	Frost 2
17	Zoom	000-255	0-100%
18	Zoom fine	000-255	0-100%
19	Focus	000-255	0-100%
20	Focus fine	000-255	0-100%
21	C	000-255	0-100%
22	M	000-255	0-100%

23	Y	000-255	0-100%
24	CTO	000-255	0-100%
25	Strobe	000-009	Closed
		010-033	Gradual strobe effect 1 from slow to fast
		034-057	Gradual strobe effect 2 from slow to fast
		058-079	Gradual strobe effect 3 from slow to fast
		080-145	Mechanical strobe effect from slow to fast
		146-179	Pulse strobe effect from slow to fast
		180-239	Random strobe effect from slow to fas
		240-255	Open
26	Dimmer	000-255	0-100%

Fixture Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Vacuum or gently blow away dust and loose particles from the outside of the fixture with low-pressure compressed air.
3. Clean the surfaces by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub glass surfaces hard: lift particles off with a soft repeated press. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.
4. Check that the fixture is dry before reapplying power.

Fuse Replacement

This fuse is located in a fuseholder next to the MAINS OUT socket on the connections panel.

To replace a fuse:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Unscrew the cap of the fuseholder and remove the fuse. Replace with a fuse of the same size and rating only.
3. Reinstall the fuseholder cap before reapplying power.

Troubleshooting

Listed below are a few common problems that you may encounter, with solutions.

The fixture does not work, no light

- Check the connection of power and main fuse. Be sure the external fuse has not blown.
- Measure the mains voltage on the main connector.

No response to the sound

- Make sure the fixture does not receive DMX signal.
- Low frequencies (bass) should cause the unit to react to sound.Tapping on the microphone, quiet or high pitched sounds may not activate the unit.
- Check the sound sensitivity level. Make sure it is not set to a low sensitivity level.

Specifications

Model	X300 BSW
Power supply:	AC100 - 240V, 50/60Hz
CTC:	8800K
Power consumption:	300W
Light source:	300W LED
Pan:	540°
Tilt:	270°
Zoom angle:	2° - 40°
Colors wheel:	13 colors + white, With half color, Two-way rainbow effect
Frost:	Light + heavy frost
Static gobos :	9 gobos+open
Prism wheel 1:	Independent 3 facet rotation prism,can be superimposed with Prism 2
Prism wheel 2:	Independent 6 linear rotation prism,can be superimposed with Prism 1
Zoom:	Motorised 8 or 16 bit
Focus:	Motorised 8 or 16 bit
Power connection:	PowerCON in & out
Signal connection:	3-pin XLR in & out
DMX channels:	26
Control mode:	DMX512,Master-slave,Auto, RDM
Housing:	Colour black
Size:	388 x 256 x 533mm
N.W.:	18.5kg
Enviroment:	IP65

Please note: All information is subject to change without prior notice.