

LEDE 320S

300W LED Spot Moving Head

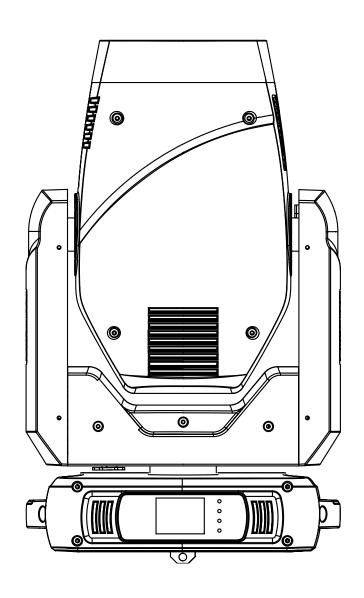


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Caution!

- 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!
- Indoor use only, keep this device away from rain and moisture!
- Make sure it is grounded when using it!
- · Unplug mains lead before opening the housing!
- For your own safety, please read this user manual carefully before you initial start-up.
- · 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

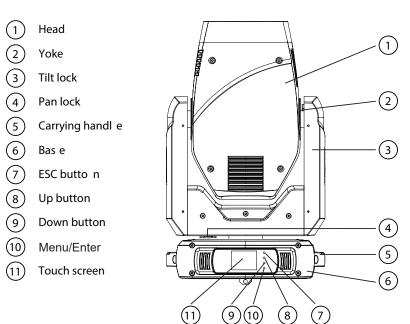
Thank you for having chosen LEDE320S. You will see you acquired a powerful and versatile device. Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

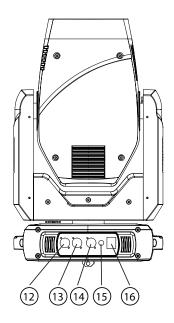
Safety instructions

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.

Fxiture overview





- (12) 3-pin DMX input socket
- (13) 3-pin DMX output socket
- (14) Powercon in
- 15) Fuse
- (16) On/Off switch

The head should be locked for transportation- the tilt lock latch (3) and the pan lock latch (4) have to be in the locked positions. To unlock the head, move these latches to unlock positions before operating the fixture.

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 M12. 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

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securely.

5. Secure the fixture with a safety cable as directed below.

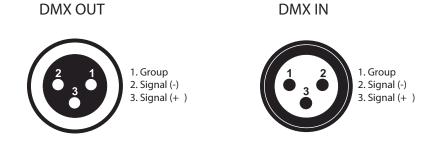
Securing with a safety cable

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:



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 LEDE320S is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.

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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.

The conductors in the cable are marked by the following table.

Connect the device to the mains with the enclosed power supply cable.

Operation

The LEDE320S can operate in three different modes. In each mode you can run the fixture as a stand alone fixture or in a master/slave confingration. This next section will detail the dif-ferences in the operating modes.

Addressing

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to listen to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or make different address for each fixture individually.

If you set the same address, all the units will start to listen to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to listen to the channel number you have set, based on the quantity of control channels of the unit. That means changing the settings of one channel will affect only the selected fixture.

In the case of the LEDE320S, which is 20/25 channels fixture. If you set, for example, the address in the 20 channel mode to channel 21, the device will use the channel 21 to 41 for control.

Universal DMX Control

This function allows you to use a universal DMX-512 controller to control the chases and patterns, dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs.

RDM control

The LEDE320S RDM can communicate using RDM (Remote Device Management) in accordance with ESTA's American National Standard E1.20-2006: Entertainment Technology RDM Remote Device Management Over DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems, it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

With RDM function, you can set the DMX address of your fixtures remotely. This is especially useful when the device is installed in a remote area.

Each LEDE320S has a factory set RDM UID (unique identification number).

Stand-alone Mode

In this mode, you can run internal program without a controller.

1. Press the **Setting** icon in the touch screen.

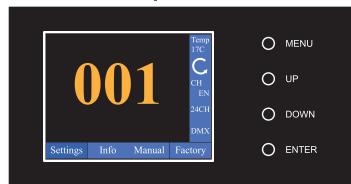
- 2. Select the **Fixture Set** tab.
- 3. Press Up or Down button and select Run Mode and select Host.
- 4. The fixture will run internal programs.

Master-Slave Operation

This function will allow you to link up to 16 units together and operate without a controller. In a Master-Slave set up one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

- 1. Using approved DMX data cables, daisy chain your units together via the XLR connector on the rear of the units.
- 2. For the Master unit press the **Setting Fixture set Run Mode Host** icon in in the touch screen.
- 3. For the slave units press the **DMX address** icon in the touch screen. Set the DMX address to 001.
- 4. The slave units will now follow the Master unit.

Control Menu Map



The control panel on the front of the fixture, provides access to the system menu and is where all necessary system adjustments are made to the fixture. LCD touch screen makes it very easy to navigate the system menus.

During normal operation, pressing **MENU** button once will access the fixture's main menu.

Once in the main menu you can navigate through

the different functions and access the sub-menus with the UP, DOWN, and ENTER buttons.

Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting.

You may exit the main menu at any time without making any adjustments by pressing the **MENU** button.

Default settings=**bold** print

Main Menu	Level 1	Level 2	Level 3	Function
	DMX address	001-512		DMX address setting
		DMX Mode	STD	Channel mode, standard - 19CH
			EXT	Channel mode, simplified - 24CH
			DMX	Control mode, DMX
		Run Mode	Sound	Control mode, sound activate
	Fixture set		Auto	Control mode, auto programs
Setting		Pan Inverse	Close	Pan reverse movement
			Open	r an reverse movement
		Tilt Inverse	Close	Tilt reverse movement
			Open	Thirteverse movement
		Fan Mode	Normal	Fan mode off, max output
			Quiet	Fan mode 1, less power
			Studio	Fan mode 2, even less power, super silent

	1		СН	Language, Chinese
		Language	EN	Language, English
			Close	Language, Liigiisii
	Display	Display Flip		Display Reverse 180°
			Open	B: 1 11 12 13 1
		Display Mode	Show	Display blacklight, always on
			60S	Display blacklight, 60 seconds
		XY Reset	Cancel	Pan Tilt reset
			Run	
		Moto Reset	Cancel	Motos reset
	Reset		Run	
	1.0001	All reset	Cancel	Reset all
		7.11 10001	Run	reset un
		Factory	Cancel	Factory default
			Run	ractory derault
	Time	Current Time		
		Total Time		System time
		Power Count		
Info	Sensor			Sensor
		Panel		
	Software Version	Moto-XY		Software version
	version	Moto		
	Pan	000 - 255		
Manual	Pan Fine	000 - 255		
	Tilt	000 - 255		1
				Manual control on board
	Zoom	000 - 255		
	Zoom Fine	000 - 255		

	Password	xxx	Advanced settings/calibration(Only qualified technicians should perform this function. Inqure your local dealer for password.)
	Pan		
	Tilt		
	Iris		
	Color		
Factory	Rot Gobo		
	Gobo Rot		
	Fix Gobo		Input correct password for calibration
	Frost		
	Effect		
	Prism		
	Prism Rot		
	Zoom		
	Focus		

DMX Protocol

MODE/CHANNEL		DMX value	Function	
STD 24	BAC 19	DIVIA Value	Function	
1	1		Pan	
_ '	ı	000-255	Pan movement by 540°	
2	2		Pan fine	
	2	000-255	Fine control of pan movement	
3	3		Tilt	
	5	000-255	Tilt movement by 270°	
4	4		Tilt fine	
4	4	000-255	Fine control of tilt movement	
5	5		Pan/Tilt speed	
) 3	000-255	Pan/Tilt speed, decreasing	

			Marco Function		
		000-129	No function		
	130-149	Pan/Tilt reset			
		150-159	No function		
6	6	160-179	Effect reset		
		180-189	No function		
		190-209	All reset		
		210-255	No function		
			Strobe		
		000-003	Closed		
		004-103	Strobe slow to fast		
		104-107	Open		
7	7	108-207	Pulse strobe fast to slow		
		208-212	Open		
		213-240	Pulse strobe slow to fast		
		241-251	Random strobe slow to fast		
		252-255	Open		
	0		Dimmer		
8	8	0-255	0-100 linear dimmer		
			Color wheel		
		0-9	Open/hole		
		10-19	Color 1 (Color1+white)		
		20-29	Color 2 (Color1)		
		30-39	Color 3 (Color1+color2)		
		40-49	Color 4 (Color2)		
		50-59	Color 5 (Color2+color3)		
		60-69	Color 6 (Color3)		
		70-79	Color 7 (Color3+color4)		
9	9	80-89	Color 8 (Color4)		
9	9	90-99	Color 9 (Color4+color5)		
		100-109	Color 10 (Color5)		
		110-119	Color 11 (Color5+color6)		
		120-129	Color 12 (Color6)		
		130-139	Color 13 (Color6+color7)		
		140-149	Color 14 (Color7)		
		150-159	Color 15 (Color7+white)		
		160-204	Backwards rainbow effect from slow to fast		
		205-210	Open/hole		
		211-255	Forward rainbow effect from slow to fast		
10	*		Color wheel fine		
10		0-255	Color wheel fine		

			Gobo Wheel 1(Fixed gobo)
		000-009	Open/hole
		010-019	Gobo 1
11		020-029	Gobo 2
''	10	030-039	Gobo 3
		040-049	Gobo 4
		050-059	Gobo 5
		060-069	Gobo 6
		070-079	Gobo 7
		080-089	Gobo 8
		090-112	Backwards rotation from fast to slow
		113-120	Stop
		121-143	Forwards rotation from slow to fast
			Shaking gobos from slow to fast
		144-157	Gobo 1
		158-171	Gobo 2
		172-185	Gobo 3
		186-199	Gobo 4
		200-213	Gobo 5
		214-227	Gobo 6
		228-241	Gobo 7
		242-255	Gobo 8
			Animation effect wheel
		000-004	Open/hole
		005-027	Gobo 1
		028-034	Gobo 1~2
		035-056	Gobo 2
		057-063	Gobo 2~3
12	11	064-084	Gobo 3
12	11	085-089	Open
		090-119	Gobo 1 rotation
		120-149	Gobo 2 rotation
		150-179	Gobo 3 rotation
		180-214	Backwards rotation fast to slow
		215-220	Open
		221-255	Forwards rotation slow to fast

			Gobo Wheel 2(Rotating gobo wheel)
	000-009	Open/hole	
		010-019	Gobo 1
		020-029	Gobo 2
		030-039	Gobo 3
		040-049	Gobo 4
		050-059	Gobo 5
13	12	060-069	Gobo 6
13	12	700-079	Gobo 7
		080-0129	Backwards rotation from fast to slow
		130-135	Stop
		136-185	Forwards rotation from slow to fast
			Shaking gobos from slow to fast
		186-195	Gobo 1
		196-205	Gobo 2
		206-215	Gobo 3
		216-225	Gobo 4
		226-235	Gobo 5
		236-245	Gobo 6
		246-255	Gobo 7
			Rot. gobo indexing and rotation
			Gobo indexing
		0-63	Gobo indexing
14	13	64-126	Forwards rotation from fast to slow
14	13	127-128	Stop
		129-191	Backwards rotation from slow to fast
		192-193	Stop
		194-255	Forwards and backwards rotation from slow to fast
15	*		Rot. gobo - fine
13		0-255	Fine indexing (rotation)
			Prism
16	14	0-127	Open position (hole)
		128-255	3 facet prism
			Prism rotation and indexing
17	15	000-128	Prism indexing
		129-191	Backwards rotation from fast to slow
		192-193	Stop
		194-255	Forwards rotation from slow to fast
		1 1 2 1 2 3	
18	*		Prism Rotation Fine

			Iris
	19 16	0-134	Linear
19		135-164	Fast open, Slow close
19	10	165-194	Slow open, Fast close
		195-224	Normal Rain Effect
		225-255	Random Rain Effect
			Frost
20	20 17	0-127	Open/hole
		128-255	Frost
21	18		Focus
21	10	0-255	Continuous adjustment from far to near
22	*		Focus fine
	22 "	0-255	Fine focusing
23	19	0-255	Zoom
24	*		Zoom fine
24		0-255	Fine zooming

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.

Specifications

Model	LEDE 320S
Power supply:	AC100 - 240V, 50/60Hz
Light source:	300W white LED
Color temperature:	6600K
Color Rendition:	CRI 70
Pan:	540°
Tilt:	270°
Zoom:	13° - 44° motorized
Focus:	Motrized focus
Prism:	3 facet circular rotating indexable prism
Frost:	Frost filter
Static Gobo wheel:	8 static gobos+open
Rotating Gobo wheel:	7 rotating gobos+open
Animation wheel:	3 animation gobos+open
Color wheel:	7 colors+open
Power connection:	PowerCON in
Maximum power linking:	6 units
Signal connection:	3-pin XLR in & out(5-pin optional)
DMX channels:	19/24
Control mode:	RDM, DMX, Auto program, Sound, Master-slave
Housing:	Colour black, Plastic
Size:	370 x 285 x 605mm(14.5 x 11.2 x 23.8in)
Package(carton):	475 x 387 x 710mm(18.7 x 15.2 x 27.9in)
N.W.:	18.6kg(41lb)
Enviroment:	IP20

Please note: All information is subject to change without prior notice. 16.05.2022