USER MANUAL

Moving head 200 W, BEAM, 5R, DMX 512

LIGHT056

Code LIGHT056

1 About this manual

This user manual applies to the product Moving head 200 W, BEAM, 5R, DMX 512 (code LIGHT056).

Read this manual carefully before installing the product and putting it into operation for the first time, follow all of its instructions, and keep it for future reference. If you pass the product on to another person, include this manual.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

NOTE This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Safety instructions

WARNING

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

WARNING

- Connect the device only to a properly installed mains outlet with a protective earth (ground) contact. The outlet or other means of disconnection must remain easily accessible.
- Power supply: AC 100 – 240 V, 50 / 60 Hz. Before connecting, make sure that the mains voltage matches this value and the value on the rating plate of the device.
- Do not connect the device to a dimmer or to a dimmed circuit.
- Use only the original power cable or a cable with identical ratings. Protect the cable from damage, do not run it over sharp edges, and never unplug it by pulling on the cable.
- When connecting several devices to one circuit, do not exceed its permitted load.
- Replace the fuse only with the power disconnected and always with a fuse of the same type and rating: 7 A.
- Do not touch the device with wet hands.

WARNING

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

CAUTION

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

CAUTION

- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

WARNING

- The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
- Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
- Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

CAUTION The moving head is equipped with vertical and horizontal locks. Always disengage both locks before operation. Re-engage the locks with the side levers before any handling or transport.

3 Product description

Package contents

- 1× Moving head 200 W, BEAM, 5R, DMX 512
- 1× Power cable
- 2× Hanging brackets

4 Installation

WARNING

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 17 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

Use 3-pin DMX cables for connection. Connect the cable shield to pin 1; do not connect the shield/ground to the connector metal shell to avoid short circuits or erratic behavior.

5 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

Connector	Purpose
DMX IN (3-pin XLR)	DMX signal input
DMX OUT (3-pin XLR)	DMX signal output

6 Operation

Control panel

Button	Function
Left arrow / Right arrow	Return to the last selected mode
Up arrow / Down arrow	Mode selection / Edit
OK	Confirm selection (Enter)

Switches and indicators

Control	Function
Pan and tilt lock levers	Vertical and horizontal locks for transport and handling; must be unlocked before operation.

Display menu

Code	Values	Function
Running Mode	DMX, Auto	Operating mode.
DMX Adress	1-512	DMX address setting.
Channel Mode	16, 20	DMX Channel Mode. Sets 16-channel mode (16) or 20-channel mode (20).
Pan reversal	Off, On	Turns pan reversal on or off.
Tilt reversal	Off, On	Turns tilt reversal on or off.
Pan and Tilt exchange	Off, On	Swaps pan and tilt axes (Off / On).
Pan and Tilt encoder	On, Off	Pan and tilt optical encoder correction. On = evaluation and automatic direction correction, Off = function disabled.
Without DMX Signal	Retain, Clear	Behavior on DMX signal loss. Retain = retains the last value, Clear = motor resets and stops.
Screen saver	On, Off	Display backlight timeout. On = display backlight turns off after 30 seconds, Off = display backlight remains continuously on.

Code	Values	Function
Boot light bubble	Off, On	Enables or disables immediate reset on power-up (Off / On).
Restore default setting		Press OK twice to reset the fixture to factory defaults.

DMX mode

Receives DMX signal.

Auto mode

Runs in auto mode.

Setting the DMX address

- Use the UP/DOWN arrow buttons to set the address from 1 to 512.
- Press OK to confirm.
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in 20CH mode: 20.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in 20CH mode, you can use, for example, the start addresses 1, 21, 41, 61.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

7 DMX channels

Mode	Channels
16CH	16
20CH	20

Mode 16CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

CH	Function	DMX	Description
1	Colors	0–31	Open
		32–63	Color 1
		64–95	Color 2
		96–127	Color 3
		128–159	Color 4
		160–191	Color 5
		192–223	Color 6
		224–255	Color 7
2	Shutter/Strobe	0–255	Stop/Strobe
3	Dimmer	0–255	Dimmer
4	Gobo	0–255	Static Gobo Change
5	Prism	0–127	Open
		128–255	Prism
6	Prism Rotation	0–255	Prism Rotation
7	Effects Movements	0–255	Effects Movements
8	Frost	0–255	Frost
9	Focus	0–255	Focus
10	Pan	0–255	Pan
11	Pan Fine	0–255	Fine adjustment of CH 10
12	Tilt	0–255	Tilt
13	Tilt Fine	0–255	Fine adjustment of CH 12
14	Function	0–255	Function
15	Reset	0–255	Reset
16	Lamp Control	0–255	Lamp Control

Mode 20CH

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

CH	Function	DMX	Description
1	Colors	0–31	Open
		32–63	Color 1
		64–95	Color 2
		96–127	Color 3
		128–159	Color 4

CH	Function	DMX	Description
		160–191	Color 5
		192–223	Color 6
		224–255	Color 7
2	Shutter/Strobe	0–255	Stop/Strobe
3	Dimmer	0–255	Dimmer
4	Gobo	0–255	Static Gobo Change
5	Prism	0–127	Open
		128–255	Prism
6	Prism Rotation	0–255	Prism Rotation
7	Effects Movements	0–255	Effects Movements
8	Frost	0–255	Frost
9	Focus	0–255	Focus
10	Pan	0–255	Pan
11	Pan Fine	0–255	Fine adjustment of CH 10
12	Tilt	0–255	Tilt
13	Tilt Fine	0–255	Fine adjustment of CH 12
14	Function	0–255	Function
15	Reset	0–255	Reset
16	Lamp Control	0–255	Lamp Control
17	Speed Pan/Tilt	0–255	Pan-Tilt Time
18	Color Speed	0–255	Colour Time
19	Dimmer - Prism - Frost Speed	0–255	Dimmer-Prism-Frost Time
20	Gobo Speed	0–255	Gobo Time

8 Technical specifications

Parameter	Value
Light source	Philips MSD 200 W discharge lamp
DMX channels	20
Controls	touchscreen LCD display (16 million colors)
Power supply	AC 100 – 240 V, 50 / 60 Hz
Total power	350 W
Fuse	7 A
Weight	17 000 g

9 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

10 Troubleshooting

- The device does not switch on – check the supply voltage, the cables and the fuse, if the device has one.
- The device does not respond to DMX – check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
- The device behaves erratically or flickers – check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
- Only some devices on the line respond – check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
- Devices respond to the wrong channels or affect each other – check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
- The device or the connected load does not light up although it receives DMX – check the values of the dimmer, shutter and strobe channels against the DMX channel table.
- Movement is reversed – check whether Pan/Tilt inversion is enabled in the device menu or in the controller.
- Moving parts do not reach the correct position after power-on or transport – switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center.
- Movement is jerky – check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal.

11 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

SOH Sound & Lights s.r.o. provides take-back through the collective compliance scheme ASEKOL a.s. (Československého exilu 2062/8, 143 00 Praha 4 – Modřany, www.asekol.cz).

Recycle the packaging materials according to their type.

12 Warranty and service

For products purchased from SOH, a buyer who is a consumer may, under the Czech Civil Code, notify the seller of a defect that becomes apparent within 24 months of taking delivery; this statutory right is not affected by any warranty. Defect claims for these products and out-of-warranty repairs are handled by sending the goods to SOH's premises or bringing them in person: SOH, Antala Staška 242/14, 140 00 Praha 4, Czech Republic. Further information (in Czech) is available at eshop.soh.cz/casto-kladene-otazky.

Statutory rights in respect of defects and the warranty are governed by applicable law and the seller's terms and conditions.

Submit any claim to the seller from whom you purchased the product. Enclose proof of purchase and as precise a description of the fault as possible.

Neither the statutory rights nor the warranty cover defects caused by the buyer, for example by installation or operation contrary to this manual, mechanical damage or unskilled tampering. Wear caused by normal use is not a defect either.

Service and technical support are provided by SOH Sound & Lights s.r.o., Antala Staška 242/14, 140 00 Praha 4.

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