

INVOLIGHT

LED RX250 USER MANUAL



CAUTION!

Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

For your own safety, please read this user manual carefully before you initially start-up.

FEATURES

- *Classical LED beam effect in RGB and white Beams from the lenses perform circular movements and change the direction of movement with every bass beat
- *DMX-512 control via regular DMX-controller (occupies 7 channels)
- *Sound-controlled via built-in microphone
- *Microphone-sensitivity adjustable via rotary-control
- *Strobe effect
- *Auto mode
- *9 internal programs
- *Master/Slave function
- *Particularly bright illuminating power of the 5mm RGB + white LEDs
- *Advantages of LED-technology: extremely long life of the LEDs, low power consumption, minimal heat emission, maintenance free with brilliant light radiation

OPERATION

After you connected the spot to the mains, the [LED MUSHROOM RGBW DMX](#) starts running.

STAND ALONE OPERATION

In Stand Alone Operation you can use the [LED MUSHROOM RGBW DMX](#) without a controller.

For sound controlled operation set all DIP Switches to OFF.

You can do without a controller as the [LED MUSHROOM RGBW DMX](#) features a built-in microphone, which provides automatic sound control. You can adjust the sensitivity with the rotary-control on the rear panel.

AUTO MODE

In order to Auto Mode, set DIP switch 9 to ON and 10 to OFF.

Speed can be adjusted via DIP switches 4 to 8.

If DIP switches 4 to 8 are set to OFF, the internal programs run at highest speed.

If DIP switch 4 is set to ON, the internal programs run at a bit slower speed.

If DIP switch 5 is also set to ON, the internal programs run at an even slower speed.

When DIP switch 8 is set on ON, the internal programs run at the slowest speed.

SOUND-CONTROL OPERATION

For sound controlled operation set all DIP Switches to OFF.

MASTER/SLAVE OPERATION

The master/slave-operation enables that several devices can be synchronized and controlled by one master-device. On the rear panel of the [LED MUSHROOM RGBW DMX](#) you can find an XLR-jack and an XLR-plug, which can be used for connecting several devices. Choose the device which is to control the effects. This device then works as master-device and controls all other slave-devices, which are to be connected to the master-device via a stereo shielded cable. Connect the OUT-jack with the IN-plug of the next device.

Set all DIP Switches to OFF in order to determine the Master device. Set DIP Switches 1 and 10 to ON in order to determine the Slave device.

DMX-CONTROL OPERATION

You can control the devices individually via your DMX-controller. Every DMX-channel has a different occupation with different features.

For DMX-controlled operation set DIP Switch 10 to ON.

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.

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

Addressing

Each device occupies 7 channels. To ensure that the control signals are properly directed to each device, the device requires addressing. This is to be adjusted for every single device by changing the DIP-switches as set out in the table below. The starting address is defined as the first channel from which the device will respond to the controller. Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX data link. If two, three or more devices are addressed similarly, they will work similarly.

Occupation of the DIP-switches:

Setting the DMX-starting address:	DIP-switch no.	1	2	3	4	5	6	7	8	9
Projector number & channels	DMX-starting address	1	2	4	8	16	32	64	128	256
Device 1 - channels 1-7	On	▲								
	Off		▼	▼	▼	▼	▼	▼	▼	▼
Device 2 - channels 8-14	On				▲					
	Off	▼	▼	▼		▼	▼	▼	▼	▼
Device 3 - channels 15-21	On	▲	▲	▲	▲					
	Off					▼	▼	▼	▼	▼
Device 4 - channels 22-28	On		▲	▲		▲				
	Off	▼			▼		▼	▼	▼	▼
Device 5 - channels 29-35	On	▲		▲	▲	▲				
	Off		▼				▼	▼	▼	▼

Controlling:

After having addressed all devices, you may now start operating these via your controller.

DMX PROTOCOL

Channel 1 – Red

000 – 255 0 – 100% Dimming

Channel 2 – Green

000 – 255 0 – 100% Dimming

Channel 3 – Blue

000 – 255 0 – 100% Dimming

Channel 4 – White

000 – 255 0 – 100% Dimming

Channel 5 – Strobe

000 – 010 Off

011 - 255 Flash, with increasing speed

Channel 6 – Internal Programs, Auto Mode, Sound Control

000 – 010 No function

011 – 034 Program 1

035 – 058 Program 2

059 – 082

083 – 106

107 – 130

131 – 154

155 – 178

179 – 202

203 – 226

227 – 250

251 – 255

Program 3

Program 4

Program 5

Program 6

Program 7

Program 8

Program 9

Auto Mode: Internal Programs

Sound Controlled Mode

Channel 7 – Motor

000 – 000 No Rotation

001 – 127 Rotation, clockwise, with increasing speed

128 - 255 Rotation, counter-clockwise, with decreasing speed

CLEANING AND MAINTENANCE

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents! There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

Step 1: Take out the fuseholder under the power supply.

Step 2: Remove the old fuse from the fuseholder.

Step 3: Install the new fuse in the fuseholder.

Step 4: Replace the fuseholder in the housing and fix it.

Should you need any spare parts, please use genuine parts.

If the power supply cable of this device becomes damaged, it has to be replaced by authorized dealers only in order to avoid hazards.

TECHNICAL SPECIFICATIONS

Power supply: 220-250 V AC, 50-60 Hz

Power consumption: 30W

Number of DMX channels: 7

DMX-512 connection: 3-pin XLR

Beam angle: 60°

Sound-control: via built-in microphone via built-in microphone

Maximum ambient temperature *Ta*: 45° C

Maximum housing temperature *TB* (steady state): 60° C

Min.distance from flammable surfaces: 0.50 m

Min.distance to lighted object: 0.10 m

Fuse: F 1 A, 250V

Weight: 5.5 kg

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