

INVOLIGHT

NL50 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

- *LED flower effect in RGB and white Beams from the 4 lenses
- *DMX-512 control via regular DMX-controller (occupies 6 channels)
- *Sound-controlled via built-in microphone
- *Microphone-sensitivity adjustable via rotary-control
- *Strobe effect
- *8 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 device starts running.

STAND ALONE OPERATION

In Stand Alone Operation you can use the device without a controller.
For sound controlled operation set all DIP Switches to OFF.
You can do without a controller as the device features a built-in microphone, which provides automatic sound control. You can adjust the sensitivity with the rotary-control on the rear panel.

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 device 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 spots 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 6 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 1-6	On	▲								
	Off		▼	▼	▼	▼	▼	▼	▼	▼
Device 2 - channels 7-12	On	▲	▲	▲						
	Off				▼	▼	▼	▼	▼	▼
Device 3 - channels 13-18	On	▲		▲	▲					
	Off		▼			▼	▼	▼	▼	▼
Device 4 - channels 19-24	On	▲	▲			▲				
	Off			▼	▼		▼	▼	▼	▼
Device 5 - channels 25-30	On	▲			▲	▲				
	Off		▼	▼			▼	▼	▼	▼

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

DMX PROTOCOL

Channel 1 – Len 1 - LED groups/colors selection

000 – 010	Off
011 – 016	Group 1 of White on
017 – 022	Group 2 of White on
023 – 028	Group 3 of White on
029 – 034	Group 1 of Red on
035 – 040	Group 2 of Red on
041 – 046	Group 3 of Red on
047 – 052	Group 1 of Green on
053 – 058	Group 2 of Green on
059 – 064	Group 3 of Green on
065 – 070	Group 1 of Blue on
071 – 076	Group 2 of Blue on
077 – 082	Group 3 of Blue on
083 – 088	All White on
089 – 094	All Red on
095 – 100	All Green on
101 – 106	All Blue on
107 – 112	All Red and all Green on
113 – 118	All Red and Blue on
119 – 124	All Green and all Blue on
125 – 130	All Red, all Green and all Blue on
131 – 136	All Red and all White on
137 – 142	All Green and all White on
143 – 148	All Blue and all White on
149 – 154	Group 1 of Blue and all White on
155 – 160	Group 2 of Blue and all Red on
161 – 166	Group 3 of Blue and all Green on
167 – 172	Group 1 of Blue and group 3 of Red on
173 – 178	Group 2 of Blue and group 2 of Red on
179 – 184	Group 3 of Blue and group 1 of Red on
185 – 190	Group 1 of Green and group 3 of White on
191 – 196	Group 2 of Green and group 2 of White on
197 – 202	Group 3 of Green and group 1 of White on
203 – 208	Group 1 of Blue, Group 3 of Green, Group 1 of Red, and group 3 of White on
209 – 214	Group 2 of Blue, Group 2 of Green, Group 2 of Red, and group 2 of White on
215 – 220	Group 3 of Blue, Group 1 of Green, Group 3 of Red, and group 1 of White on
221 – 255	All White, all Red, all Green and all Blue on

Channel 2 – Len 2 - LED groups/colors selection

DITTO

Channel 3 – Len 3 - LED groups/colors selection

DITTO

Channel 4 – Len 4 - LED groups/colors selection

DITTO

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 – 036	Program 1
037 – 062	Program 2
063 – 088	Program 3
089 – 114	Program 4
115 – 130	Program 5
131 – 156	Program 6
157 – 182	Program 7
183 – 208	Program 8
209 – 250	Auto Mode: Internal Programs
251 – 255	Sound Controlled Mode

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: 6

DMX-512 connection: 3-pin XLR

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

Maximum ambient temperature T_a : 45° C

Maximum housing temperature T_B (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.