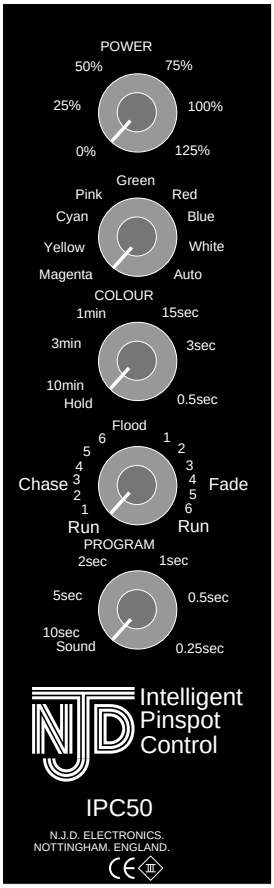
# IPC50




# User Guide

# Features of the IPC50

- Full control over colour and brightness
- Controls up to 32 Chroma 50s
- 6 Four channel chases
- 6 Four channel cross›fade programs
- Needs no separate power supply
- Bulit in microphone for sound activation

## Installation

Connect the IPC50 to the DMXin socket of the first Chroma 50 using an RJ45 lead. 2m, 5m and 10m RJ45 leads are available from your supplier, or from computer stores, of if you want to make your own lead, connections are shown in "Technical Specificaions".

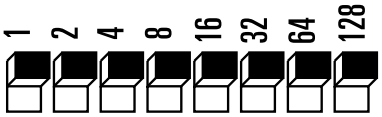
If operating more than one Chroma 50, connect an RJ45 lead from the DMXout socket on the first Chroma 50 to the DMXin socket on the second, and from the DMXout socket on the second to the DMXin socket on the third, and so on. Ensure that the plug is pushed into the socket until a "click" is heard

Power to run the remote controller is supplied by the Chroma 50, so no power supply connection is required.

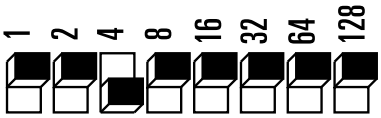
## Setting up

The IPC50 produces four channel chasing patterns, in the same way as a four channel lighting controller.

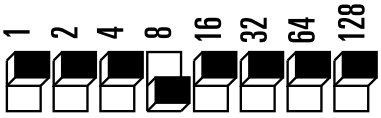
Set the DIL switches on all Chroma 50s that are required to operate as channel 1 to DMX address 1 (all switches off)



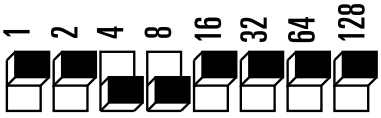

Set the DIL switches on all Chroma 50s that are required to operate as channel 2 to DMX address 5 (switch 4 on)




Set the DIL switches on all Chroma 50s that are required to operate as channel 3 to DMX address 9 (switch 8 on)




Set the DIL switches on all Chroma 50s that are required to operate as channel 4 to DMX address 13 (switches 4 and 8 on)




If you have a set of four Chroma 50s, set one to each channel, to obtain the best effect.

POWER
50% 75%
25% 100%
0% 125%
Green
Pink Red
Cyan Blue
Yellow White
Magenta Auto
COLOUR
1min 15sec
3min 3sec
10min
Hold 0.5sec
Flood
6 1
5 2
4 3
Chase 3 4 Fade
2 5
1 6
Run Run
PROGRAM
2sec 1sec
5sec 0.5sec
10sec
Sound 0.25sec


# IPC50

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# Operation

The P O W E R control operates at all times regardless of the setting of any other controls. At 0% all lamps will be off. At 100% the power supplied to the lamps will be 50W. The power can be increased to 125%, supplying 70W to the lamps, increasing the brightness by about 100%, but reducing the life.

| Setting | Power | Brightness | Lamp Life |
|---|---|---|---|
| 0% | 0W | 0% | * |
| 25% | 6.25W | 1.5% | * |
| 50% | 15W | 12.5% | * |
| 75% | 32W | 42% | 125000 |
| 100% | 50W | 100% | 4000 |
| 125% | 70W | 200% | 275 |

* At power settings this low, the lamp life will be determined by other factors than the power consumed by the lamp, such as switching on and off repeatedly, or mechanical damage. The settings shown above have been chosen after extensive research and testing to produce a control that appears linear to the eye.

During chases, the P O W E R control sets the brightness of the channels that are switched on by the chaser, during cross›fades, it sets the maximum brightness achieved during the fade.

Two controls operate the C O L O U R selection. If the upper control is set to a colour, then all lanterns will operate in that colour. In this mode the lower control has no effect.

If the upper control is set to AUTO, then the colours will change automatically at the time interval set on the lower control. The colours selected may be all different, or all the same, or operate a four channel colour chase. The fully anticlockwise position "HOLD" will retain a selection of colours until the control is moved away from the "HOLD" position.

Two controls operate the P R O G R A M selection. The upper control selects the program, and the lower control selects the speed.

At the centre position (of the upper control) labelled "FLOOD" all lanterns will be illuminated at the level set on the P O W E R control.

Positions 1 to 6 select different four channel chase programs. Anticlockwise of the centre position, these are standard chase patterns where the lantern is either on or off, the lamp remains on, and flashing is produced by a mechanical shutter.

Clockwise from the "FLOOD" position, the same chase patterns are operated in "soft›fade". Each lantern fades up from zero to the brightness set on the P O W E R control, and back down to zero.

The fully clockwise and fully anticlockwise settings of the program control

are labelled RUN. These run through all six chase patterns in turn.

The lower of the two P R O G R A M controls sets the chase speed, the times labelled are the time taken for each chase step.

If the PROGRAM speed control is turned fully anticlockwise, to the position labelled SOUND, the chaser will operate to the bass beat of the music, changing to the next step in the pattern on the beat.

The soft›fade patterns are not available sound›activated. If SOUND is chosed when a soft›fade program is selected, then the IPC50 will produce normal ON›OFF chase patterns with no cross fading.

## Fault Finding

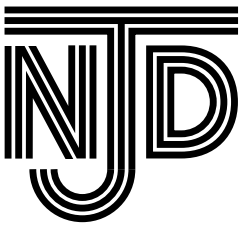
| | |
|---|---|
| No operation: | Plugs not fully pushed into sockets |
| | Remote connected to the wrong DMX socket › should be connected to DMXin |
| | DIL switches set to wrong address, must be 1, 5, 9 or 13. |
| | Power control set to ZERO. |
| No soft fade: | SPEED control set to SOUND › soft fade only operates at fixed speeds |

## Technical Specification.

| | |
|---|---|
| Dimensions: | 182mm x 65mm x 37mm |
| Weight: | 0.3kg |
| Power Supply: | 5V DC @ 15mA (from Chroma 50) |
| Output: | DMX512 (conforms to electrical and data specifications) |
| Connections: | RJ45 |
| | Pin 1 = 0V (white/orange) |
| | Pin 2 = +5V (orange/white) |
| | Pin 3 = no connection (white/green) |
| | Pin 4 = no connection (green/white) |
| | Pin 5 = no connection (white/blue) |
| | Pin 6 = no connection (blue/white) |
| | Pin 7 = Data › (white/brown) |
| | Pin 8 = Data + (brown/white) |

## Standards

The IPC50 is a CLASS III product (Protection by Safety Extra Low Voltage) and is exempt from electrical safety standards, and complies with Electromagnetic Compatibility Standard EN55103.





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