

# ESP II 48

## 48/96 CHANNELS / 24 SCENE MASTERS MEMORY LIGHTING CONTROL CONSOLE



### DESCRIPTION

The ESP II 48 console is primarily designed for the control of devices featuring DMX input circuitry such as dimmers racks and colour scrollers. Units requiring an analogue input (0 to +10 volts) can also be controlled if the console is fitted with optional analogue outputs.

### FEATURES

- \* DMX 512 output to control dimmers, moving lights and colour scrollers
- \* Wide mode doubles the number of channel faders to 96 channels
- \* Add/solo functions on all channels and scene masters
- \* Three proportional softpatches to 512 DMX channels
- \* LCD window for operator feedback
- \* Up to 498 memories
- \* Up to 30 scene pages
- \* Up to 30 chases
- \* Live or blind editing
- \* Easy recording of scenes
- \* Timed dipless crossfades
- \* Effects (FX) section
- \* 4 × option ports (back panel)
- \* Console linking to JANDS STAGE / ESP II / EVENT / EVENT PLUS consoles
- \* CE approved: EN50081-1, EN50082-1, EN60950

- Memory: 256 Kbytes
- Power supply: Universal 100~240VAC ±10% , 47~63 Hz
- Consumption: 40W typical
- Connector: IEC 3-pin with integral fuse, switch and mains filter
- Fuse: 2A M205/240V
- MIDI in: 5-pin DIN socket
- DMX out: USITT DMX-512/1990 protocol (RS-485 standard)/ AXR 5-pin socket
- Analogue out: 0 ~ +10V DC/ Socapex 337 socket (option)
- Desk lamp outputs: 2 × 12V current limited, AXR 3-pin socket; 10W max.
- Display: 32 character, 2 line LCD, green backlight
- Dimensions: 1180mm (W) × 490mm (D) × 108mm (H)
- Net/shipping weight: 15/18 kg

### SUPPLIED ACCESSORIES

- 2m IEC to Clipsal 463 power cable (export models may vary)
- Operating manual

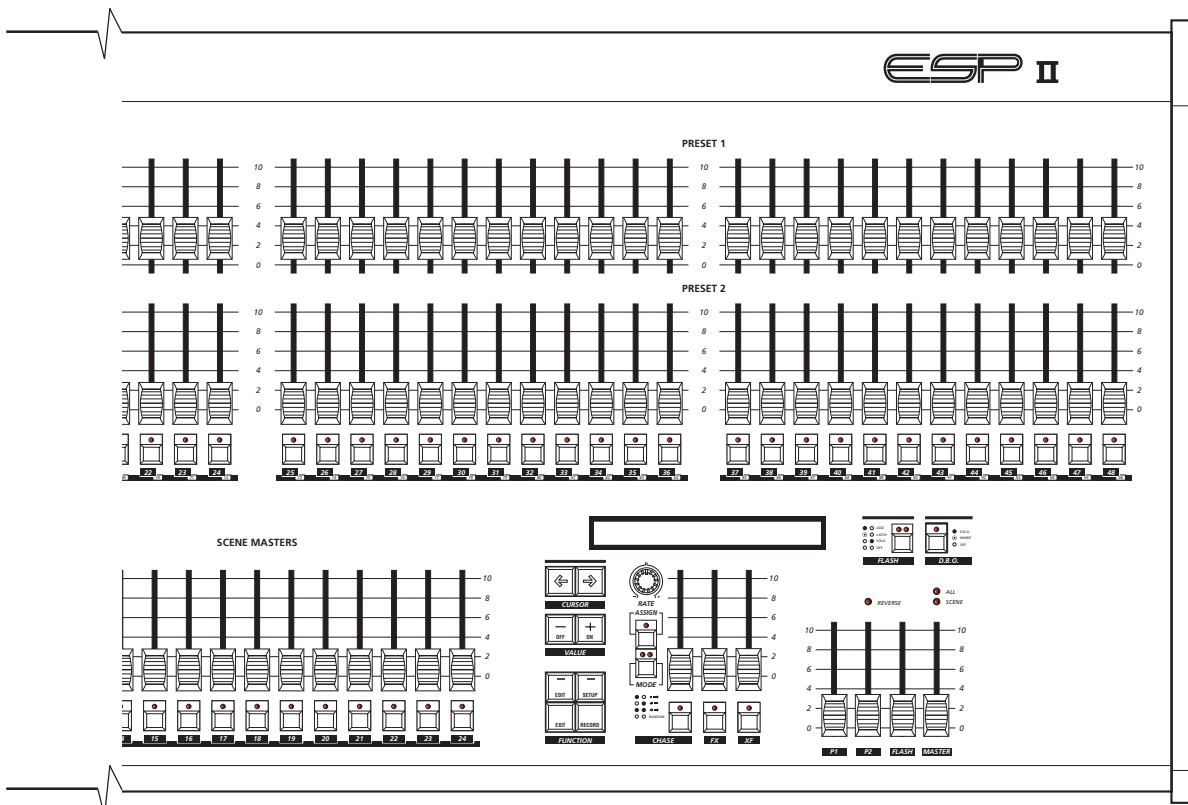
### ORDERING INFORMATION

MODEL/PART	PART NO.
• ESP II 48	JND-ESP1148
• M-card module	JND-OPM
• VDU interface/M-card module	JND-OPVM-VGA
• M-card	JND-MCARD
• Floppy disk drive module (DOS format)	JND-OPFD-ESP11
• Analogue output module	JND-OPA60
• Desk lamp	CAE-18XR/CAE-18XR-Hi
• Flightcase	JND-FC-ESP1148



### OVERALL SPECIFICATIONS

Control channels: 48 (normal), 96 (wide)  
Scene masters: 24



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### ARCHITECTS & ENGINEERS SPECIFICATION

#### Electronics

The console shall provide control of up to 48 control channels (96 in wide mode) via the industry standard USITT DMX-512/1990 protocol.

The DMX output socket on the back panel shall be a 5-pin AXR and the output voltages shall conform to standard RS-485 balanced serial data transmission. The console shall have a standard MIDI In 5-pin DIN connection.

The console shall have two (2) banks of preset faders and a flash button with an integral light emitting diode (LED) per channel to allow direct manual control of stage lighting intensity. In addition a liquid crystal display (LCD) shall be provided to enable the operator to view operating parameters and to edit in formation.

A memory capacity of no less than 256 Kbytes is required. The memory shall be battery-backed to prevent memory loss when switched off. The battery shall have a life of at least four (4) years.

The console shall incorporate design techniques and electronic filters to comply with Australian and European Union directives on electrical safety and electromagnetic compatibility (EMC).

The console shall be factory tested and cyclically burned-in for a minimum of 24 hours.

Three (3) proportional DMX soft-patches shall be available.

#### Operation

The operating software of the console shall incorporate diagnostic test routines that exercise the different systems on the CPU card. These test routines shall indicate to the operator (using LEDs and/or displays) the result (pass/fail) of the tests.

An error message shall be displayed to the operator should the software malfunction or be corrupted.

#### Electrical

The console shall operate from a single-phase supply of 100 to 240 volts AC  $\pm 10\%$  with a supply frequency of 47 to 63 Hz and shall not draw more than 50 watts of power from a normal power outlet. The power inlet shall be a switched and filtered IEC mains socket with integral fuse, located on the back panel of the console. The power supply shall be a universal-type switched mode supply requiring no changing of internal links to accommodate different supply voltages.

A 12V current limited supply terminated on a 3-pin AXR socket shall be provided on the back panel to power a pair of optional desk lamps.

The console shall feature a desk linking function.

#### Mechanical

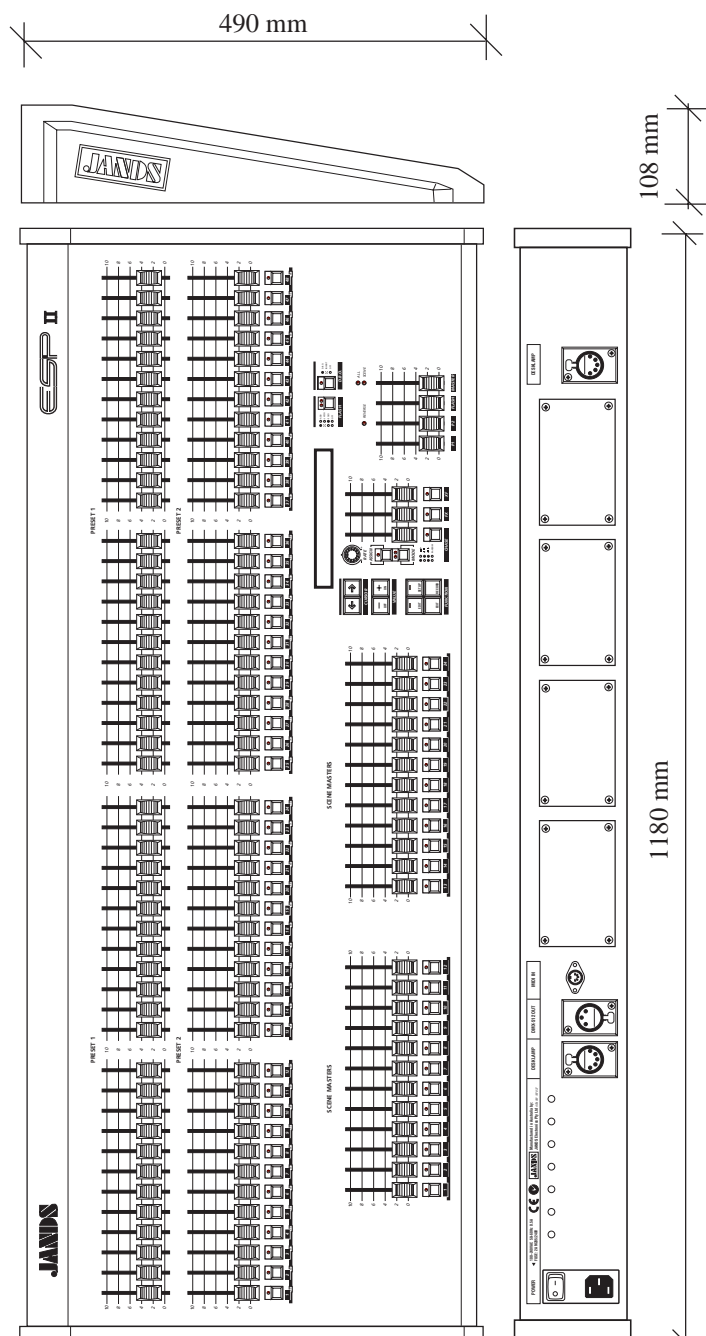
The console shall be a free standing device and be 1180mm wide, 490mm deep and 108mm high. The console shall be constructed of 1.2mm steel, and shall be provided with a removable 1.2mm aluminium base for access to internal electronics. All metal surfaces shall be properly treated and finished in powdercoat or zinc dichromate passivating.

The control surfaces shall be scratch-resistant 0.25mm Lexan with legends reverse silk-screened from behind. All operator controls and displays shall be provided on the top operating surface of the console.

The chassis shall have sufficient ventilation holes to allow adequate convection cooling of the power supply, provided the ambient temperature does not exceed 40°C (104°F).

Four (4) rear panel option slots shall allow the fitting of optional modules including M card/ video output/ analogue outputs and floppy disc drive.

The console shall be the JANDS ESP II 48.



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