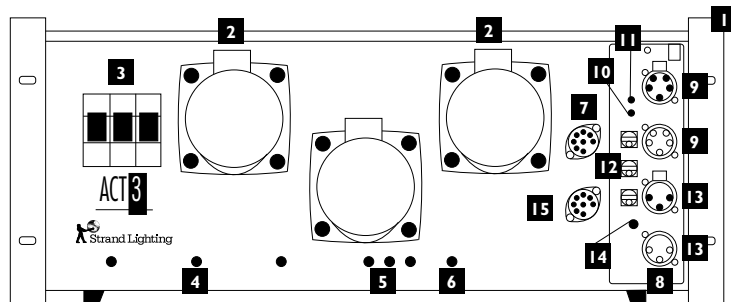


**A Guide to the Act 3+ Dimmer Pack**













1. Reversible side plates for handles or rack mounting
2. Output sockets (1 per dimmer)
3. Resettable Circuit Breakers (25A)
4. Dimmer power indicators
5. Circuit test push buttons
6. Circuit test LED
7. Control signal input socket (+10V or -10V)
8. Optional Multi-mux module
9. DMX input and output sockets
10. 'DMX present' LED
11. DMX line termination switch and LED
12. Multiplex address switches (also used for auto-sequence function)
13. D54 input and output sockets
14. 'D54 present' LED
15. Slave control output socket (to connect second pack for dimmers 4 - 6)

**Act 3+**

Compact dimmer pack with three 20A dimmers controlled by 0V to 10V analogue signal (plus/minus autosensing) per dimmer or optionally, multiplex signal (either Strand D54 or DMX512). Both versions supplied with CEE17 32A sockets, and analogue input. By removing a blank cover panel, and installing the optional Multi-mux module, any dimmer pack can operate with either DMX 512 or Strand D54 multiplex signals. An added feature with the Multi-mux module is the self-powered effects package which provides 4 effect types, selection of channels in the effect and the effect speed, each one selected by the Mux start address switches.

A second Act 3+ dimmer pack may be connected as a slave unit under control of channels 4 - 6 in the analogue cable or the Multi-mux module. All versions accept three phase power, and include a single phase linking strap.











 194V-264V AC 48-62Hz  60A  3 x 5kW  
 3  0 - 10V (+/-), option: DMX512, D54  
 485 x 330 x 188mm  9.6kg  11.3 kg  
 0.107m<sup>3</sup>  BS 800, VDE 0875, EN55014, EN50081-1, EN50082-1, IP20 to EN60529

Cat No	Description
73070	Act 3+, Analogue, CEE17 32A
73074	Act 3+, CEE17 32A, with Multi-mux module
73071	Act 3+, Analogue CEE 17 32amp complete with 2.5m mains cable and CEE17 plug 3P+N+E
73075	Act 3+, Analogue CEE 17 32amp with Multi-mux module complete with 2.5m mains cable and CEE17 plug 3P+N+E

**Act 3+ Accessories**

Cat. No.	Description
76030	Multi-mux module, D54/DMX512
61106	6-way & master control desk
66090	DIN8 2m control cable
66091	DIN8 5m control cable
66092	DIN8 25m control cable
66083	DMX control cable, 2m
66081	DMX control cable, 10m
66082	DMX control cable, 25m

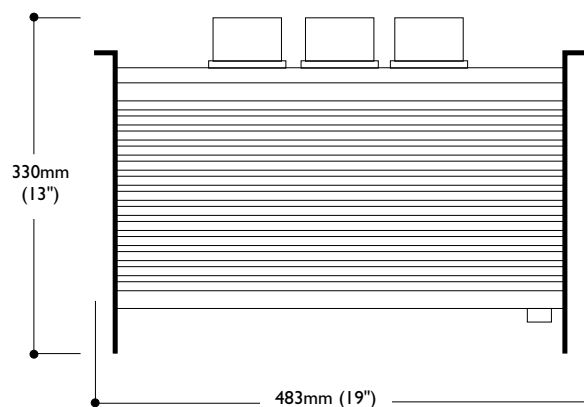
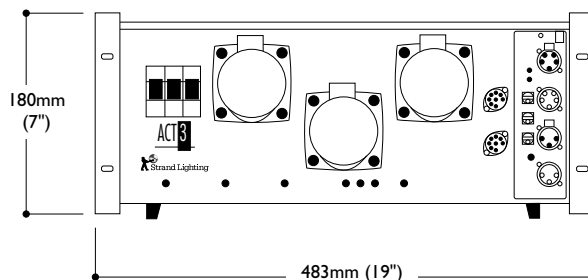
**A GUIDE TO SYMBOLS AND ABBREVIATIONS**

**GENERAL**  Supply voltage  Current rating in amps  Wattage  Weight of product  
 Overall dimension of product  Packed weight  Packed volume  Compliance with international standards.  
 Quantity of dimmers  Control protocol as follows: Analogue: Wire-per-dimmer. 0-10VDC. DMX: USITT DMX512. D54: Strand Analogue Multiplex standard. IP: International Protection Standard

# 7.3.4

**D I M M I N G**

## ACT 3+ Dimmer Packs



- Three 20A dimmers in a rugged, portable economical pack
- Ideal for temporary lighting rigs, or small installations
- CEE17 32A socket per dimmer; analogue control or optional DMX512/D54 multiplex control
- Analogue input accepts positive or negative control signals
- Optional plug-in Multi-mux module gives multiplex control capability and integral chase effects feature
- "Slave" control socket provides link to a second Act 3+ pack
- Push-button test switch per dimmer with adjustable test level and "test on" indicator
- Fuse "OK" LED indicator per dimmer
- Provision for wall mounting or 19" rack mounting
- For use with suitable RCD devices

Electrical	
<b>Supply Voltage/ Frequency</b>	194 - 264V, 48 - 62Hz Three phase plus neutral and earth (ground), or single phase plus neutral and earth (ground) when phase link bar is fitted. Main power connector should be 60A or greater (single phase), 20A or greater (three phase). Recommended connector type: CEE 17 BS4343.
<b>Total Capacity</b>	Three dimmers with one socket per dimmer. Maximum load 20A per dimmer - total 60A. Resistive (tungsten) loads only. Minimum load 250W per dimmer.
<b>Control</b>	Analogue auto-sensing 0V to -10V (full-on) via 10kΩ resistor and silicon diode, or 0V to +10V (full-on) via 1K resistor and silicon diode. When Multimux module is fitted, analogue and either Strand D54 or DMX512 Mux signal can function simultaneously, with the dimmer responding to the highest level. Slave control output socket enables channels 4, 5, and 6 signals from either the analogue control cable, or the Multi-mux module, to be connected to a second Act 3+ pack, without the need for a second control cable from the console.
<b>Dimmer Test Switches</b>	Switch any dimmer to a preset level.
<b>Power Supply Output</b>	-14.5V DC (max current 100mA) via analogue control input connector. (Intended for providing power to Strand Lighting 'LX' control systems).

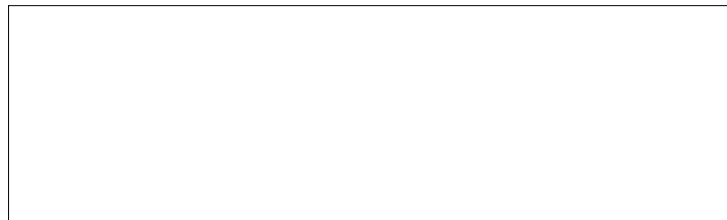
Operational Data	
<b>Connections</b>	Mains input cable can be inserted through a 25mm or 32mm cable entry hole in the rear panel or a 32mm hole on the left hand side, using a suitable cable gland. Load connections are made through a CEE17 32A plug.
<b>Circuit Protection</b>	Each dimmer module is protected by a resettable 25A circuit breaker.
<b>Control Input</b>	Analogue 0V to 10V (+/-), via 8 pin locking DIN connector on front panel. DMX512 (1990) multiplexed digital control, and Strand D54 multiplexed analogue control via 3 pin XLR connector, both on Multi-mux module faceplate. (Multiplexed control in-puts are only available when the optional Multi-mux module is fitted). Two Act 3+ packs may be linked to utilise all 6 ways of control. LED Indication of power available to each dimmer (fuse OK), When fitted with Multi-mux module LED's indicate the presence of D54 or DMX multiplex signal.
<b>Control Cable Entry</b>	Plug connections to the front panel.
<b>Output</b>	Max 5kW per dimmer. Dimmers are rated for continuous loads.
<b>Local Control</b>	The test level is factory set at approximately 70% of full intensity. It is adjustable from 40% to 80% through the base plate. With the Multi-mux module fitted the auto-sequencing step and fading chase effects are preset and initiated by setting the pack address switches in the range 600 to 999.
<b>Cooling Method</b>	Extruded heatsink case provides adequate cooling in any well-ventilated position.

Environmental Data	
<b>Ambient Temp Operating Range</b>	0°C - 35°C
<b>Relative Humidity Operating Range</b>	10% - 95%, zero condensation.

Operating Data	
<b>Environment/ Ventilation</b>	Clean, dry ventilated space within temperature and humidity limitations.
<b>Standards Compliance</b>	BS800. VDE 0875, EN55014, EN50081-1, EN50082-1
<b>Ingress Protection</b>	IP 20 (IEC529/EN60529).

Mechanical Data	
<b>Finish/Colour</b>	Grey powder coat epoxy paint.
<b>Labelling</b>	Strand Lighting in white.
<b>Construction</b>	Extruded aluminium heatsink forms the upper section of the case, with sheet metal chassis and side plates. Carrying handles are formed into the side plates which are reversible for 19" rack mounting.

Weight and Dimensions	
	<b>Act 3+</b>
<b>Weight</b>	9.6kg (21.12lb)
<b>Height</b>	188mm (7.4")
<b>Depth</b>	330mm (13")
<b>Width</b>	483mm (19")
<b>Packed Volume</b>	3.81 cu ft (0.107m <sup>3</sup> )



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