

NEW

PRODUCT INFORMATION

EC90 SUPERVISOR™



- New modular digital dimming system
- Based on EC90 rack construction - replaces EC90 MD
- High specification TV Broadcast standard filtering
- Line voltage regulation
- Smooth digital fade processing
- Hard firing thyristor and contactor module options
- Extensive programmable features
- Modules available as standard or with Reporter™ option
- Two multiplex inputs as standard with individual patches
- 99 System Wide Control (SWC™) memories
- 16 Room by 8 preset Outlook™ architectural lighting presets
- Direct control of channels and presets by hand held remote programmer
- Unique security features
- Dual electronics processor option for tracking backup



Strand Lighting

EC90 SUPERVISOR™ DIGITAL DIMMERS

Overview

The EC90 Supervisor™ digital dimmers are central to Strand's integrated digital lighting control system. No longer are controls and dimmers considered as separate entities in the lighting control network - they are hubs in a sophisticated network of control, communications and feedback.

The EC90 Supervisor predecessor - EC90MD - set the standard in 1990 with high-performance digital dimming in a modular format, but achieved at a level that put the most desirable features out of range for many users.

The EC90 Supervisor now offers the most widely preferred specification points of the top range dimmers - modularity, digital accuracy, status reporting and superb voltage regulation - and has new features such as direct dimmer control without having to use a control system and integrated architectural control. This, added to high level system security and the many in/out control options offered as standard, means that the EC90 Supervisor will soon become a new standard to specify.

Status Reporting

EC90 Supervisor dimmers can report their status to a remote Personal Computer running the Strand Reporter™ dimmer supervisory program (available early 1995). Standard reporting will be of the

dimmer line voltage, dimmer output level, failure of either of the two Mux signals, and fan failure. Also, as standard, the user can configure and directly control all of the EC90 Supervisor dimmers from the remote PC.

For information on load status, the Supervisor range includes the Reporter power modules. These modules measure the current, voltage and temperature and report back the load in Watts (and whether this deviates from a stored load value), if the load has been disconnected (either by lamp bulb failure or the spotlight is unplugged), an overload condition, a dimmer fault, a control fault, and if DC is present (eg. if one thyristor of a pair has failed), and the working temperature of the module.

Flexible Control Options

EC90 Supervisor accepts two simultaneous Mux signals which could be from two separate control systems. Up to thirty-two +/- 10V analogue signals enable control from fader desks, or from on/off switches.

In addition, the SWC™ (System Wide Control) allows direct dimmer and preset control (of up to 99 presets) from a hand held unit and from distributed wall outstations. Further, the Supervisor supports an architectural lighting control system called Outlook™ which can control up to 16 rooms each with

8 programmable presets, with stations ranging from simple slider, pushbutton, slider and pushbutton, infra-red and audio visual interface.

Software dictates the interaction between the five incoming control signals. These user programmable options have been structured for scenarios where, for example, auditorium lighting, backstage lighting and performance lighting are required to be controlled from one of two main lighting desks, or from distributed push-button outstations or faders. Six combination options allow Mux signals to take precedence, or preset outstations to override, or individual channels to take independent control.

Twelve +10V analogue signal outputs (available on the large processor version only) are included to control auxiliary equipment.

Security Features

A new term to dimming, these features provide security against hardware failure and security for peace of mind. Features include "panic" dimmer override; a second optional tracking processor; Mux failure backup states; over-temperature warning and individual module shut-down.

Concise specification

Performance

Rack

Large: 6 crates (max: 72 x 3.0kW, 36 x 6.0kW)

Small: 3 crates (max: 36 x 3.0kW, or 18 x 6.0kW)

Top and bottom cable access

Crate types may be mixed in one rack

Choice of single pole (SP), single pole with neutral disconnect (SPN), or double pole circuit breakers

Rack dimensions

	Large	Small
width:	905mm (35.6")	905mm (35.6")
depth:	510mm (20")	510mm (20")
height:	1968mm (77")	1168mm (46")
weight:	342kg (750lb max)	190kg (418lb)

Control Electronics

Fully digital, 16msec response time, no analogue ramping or signal conversion

Single plug-in processor module

Real time clock

6 button programming keypad with LCD

Input signals: DMX 512, AMX 192, D54, Reporter™, max. 32 analog +/- 10V inputs, patchable to any dimmer

Aux outputs: Twelve +10V analogue outputs

Networks: SWC™, DNC™ (for Outlook™)

Programmable features include: max & min output voltage; dimmer curve (library or custom), patch (room and channel), dimmer response, dimmer control assignment, record & recall presets, analog calibration, LCD contrast.

Modules

Hard-fired thyristor + standard filtering

A) Dual 3.0kW dimmers with Reporter™ option

B) Dual 3.0kW dimmers
Hard-fired thyristor + TV-standard filtering

C) Dual 3.0kW hi-spec dimmers with Reporter™ option

D) Dual 3.0kW hi-spec dimmers

E) Single 6.0kW hi-spec dimmers with Reporter™ option

F) Single 6.0kW hi-spec dimmers

Switch Contactor and Hybrid

U) 3.0kW hi-spec dimmer + contactor with Reporter™ option

V) 3.0kW hi-spec dimmer + contactor

W) Contactor + 3.0kW hi-spec dimmer with Reporter™ option

X) Contactor + 3.0kW hi-spec dimmer

Y) Dual contactor with Reporter™ option

Z) Dual contactor

Reporter™ Module Additional Features

Dimmer setup; patch setup; direct dimmer and preset control; load per dimmer; load change; loss of load; dimmer fault; excess DC; overheat; overload.

Your local dealer is:



Strand Lighting®

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