

now, EAST. Supervisor's "PANIC" (it should really be "don't panic") function immediately drives selected dimmers to full, even without the processor working. This can be activated manually from anywhere in the venue, or automatically, perhaps from a fire alarm system.

There is an option to fit a second processor, running in parallel, and ready to take over in the (unlikely) event that the main processor fails. In many installations, such as live broadcast TV, the added cost is worth the comfort factor of having a complete redundant tracking backup.



Supervisor processor module.

The dimmer setup data, held in each rack's internal memory, can be moved to a replacement processor, either physically, by swapping a PCB, or by storing the data on the Reporter™ PC program and uploading the setup data into the new processor. Even simpler, all data can be transferred from one processor to another directly in dual processor systems.

Should the Mux signals fail, the dimmers can be programmed to hold their current state, or fade to a user-assigned SWC backup preset.

Temperature is carefully controlled in each rack by speed controlled fans, giving the most silent operation possible under all load conditions. If one fan fails, the others will still enable operation for a time, allowing the performance to continue. The CD80Supervisor will warn of approaching overheat condition, and will automatically shut down at 5°C above the warning temperature, while the EC90Supervisor will warn the operator and start shutting down the power modules one by one, according to which are hottest.

The range of Supervisor dimmers complements the top range EC90 and CD90 dimmers, and although the Supervisor programmable features are similar in its American and British guises, there are variations to suit the different safety and Electro-Magnetic (EMC) regulations and different user requirements. The features list below gives a brief overview of what's on offer.

† and other 100/120/240V locations using US specification equipment
* and other 220/240V locations using European specification equipment

EC90 & CD80 SUPERVISOR

- EC90 Supervisor is based on EC90 rack construction, and replaces EC90 MD version.
- CD80 Supervisor is based on CD90 rack construction, and replaces CD80 AE
- Broadcast standard filtering module options to reduce lamp sing
- Hard firing thyristor module options for smoothest dimming performance and ability to run transformer and low wattage loads
- Contactor module options to switch motors, HMI ballasts and other non-dimmable equipment
- All modules available in standard format or with Reporter™ options
- Extensive input control capabilities, ensuring system design flexibility and ability for future system additions and upgrades
- Mux A and Mux B inputs provided as standard with individual patches
- Up to 32 analogue +/- 10V inputs per rack patchable to any dimmer circuit
- 99 System Wide Control (SWC™) memories for additional preset and backup use, using simple "snapshot" recording
- 16 Room by 8 preset Outlook™ architectural lighting presets for auditorium, front of house and other control
- Direct control of channels and presets by hand held remote programmer with specialised riggers functions
- Extensive security features
- Dual electronics processor option for tracking backup
- "Panic" function, to bring up selected dimmers to full
- Line voltage regulation to minimise light output changes when the input voltage fluctuates
- Built-in library of fixed and custom dimmer curves, accessible per dimmer
- Smooth fade processing (approx. 2,000 steps)

Bob Ditzler, of Murpby Lighting Systems, reports for "Lights!" on the Cathedral of the Holy Spirit in Decatur, Georgia.

THE HOLY SPIRIT IN GEORGIA

When the pastors of Atlanta's Cathedral of the Holy Spirit (formerly Chapel Hill Harvester Church) announced plans to build a 7000 seat sanctuary they handed Strand Lighting an interesting challenge. The chance to design a technical system that would become a prototype for the nineties.

To understand why, it is necessary to study the Cathedral and it's goals. The racially-integrated

An average light level of 200fc is achieved with the base instrument package. Fourteen Pollux™ 5k TV Fresnels, for key and fill lighting, hang from one of the two front catwalks which are 90ft from the stage. Twelve Castor™ 2kW TV Fresnels are hung from the three catwalks above the stage for back lighting. In addition, a complement of Pars, Lekos and Scoops are used for colour wall washes, highlighting, specials and congregation supplemental lighting.



The Cathedral of the Holy Spirit in Decatur, Georgia.

congregation filled the old sanctuary three times every Sunday. With religious, musical, and conference activities, the congregation enjoys a diverse combination of worship and the arts. Many projects are international.

The key to the new lighting system was flexibility. The Cathedral needed to accommodate musical styles from Gregorian chants to the classics, from country to contemporary Christian and black gospel. In addition to the music there were plays, services and special events. So both theatrical and television lighting, radically different in style, had to be served to the internationally-known cathedral.

Actually, the system developed three fold; architectural, theatrical and television. The Lightboard™ M console was able to address all dimmers independently. This gave lighting directors the ability to use all the lighting units, regardless of the type of production. The system is capable of supporting 392 - 2.4kW dimmers, 46 - 6kW dimmers and 10 - 12kW dimmers.



The Lightboard M operator has an unrestricted view.

Going into the project, the Cathedral's pastors knew that they would not be able to install everything at once. However, they had the foresight to create an infrastructure to add-on to at a later stage. The distribution is in place. All that needs to be done in the future is to add units as required and assign them a channel.

