JOHNSON SYSTEMS INC.
"PROFESSIONAL LIGHT CONTROL PRODUCTS"

CD80 Supervisor Dimmer Rack Retrofit Product Comparison:
JSI CD-3000+SV vs. Strand C21

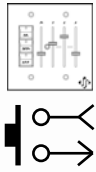|	JSI CD-3000+SV	Strand C21
Cooling:	The CD-3000+SV retrofit provides a dimmer rack with three (3) new high CFM fans and filters. It also incorporates a larger air intake which minimizes static loading of the fans and minimizes the sound signature of the fans.	The Strand C21 retrofit re-uses existing fans and filters (often worn out or failing). Noise is amplified and projected via the re-use of the fan housing.
Mounting:	The CD-3000+SV retrofit mounts quickly and easily. **New hardware supplied.**	The Strand C21 retrofit gives you a 30% chance (estimated) that the mounting holes will line up or be useable. Drilling and tapping new holes is often required.
Connections:	The CD-3000+SV retrofit uses locking connectors for dimmer connections. All backplane connections are directly compatible with all OEM wiring.	The Strand C21 retrofit uses cheaper non-locking adapter cables to connect existing rack wiring to the C21 CIC board, introducing two new points of potential failure per control channel.
Reporting Modules:	The CD-3000+SV retrofit does not support the OEM reporting feature, which is the same on the factory retrofit. No loss of features.	The Strand C21 retrofit does not support the OEM reporting option, if equipped.
Temperature Sensors:	The CD-3000+SV retrofit supports and uses existing temperature sensors thus simplifying the retrofit process. These sensors are not custom and are easy to source, should they require replacement.	The Strand C21 retrofit uses a custom "Strand only" temperature sensor. It requires an adapter wire harness to be crimped in-line thus creating two more points of potential failure. It also requires removal of the existing grounding bar so a new grounding bar can be installed to hold the new temperature sensor. This can be difficult as neutral and load wires will be in the way. Drilling new holes is also required so the new ground bar can be mounted.

	JSI CD-3000+SV	Strand C21
DMX Input:	The CD-3000+SV retrofit can automatically listen to and receive all types of DMX timing and packet sizes.	The Strand C21 retrofit will only receive DMX if it's receiving a full 512 slots. It also cannot reliably process "Max" or "Fast" DMX timing.
Multiple Racks:	The CD-3000+SV uses easy to install and CAT5E cables (supplied) for rack-to-rack linking. Plug & play!	The Strand C21 does not have DMX "Thru" connectors. All rack links must be made and supplied in the field. DMX data highway is compromised with the failure or removal of any processor.
Network:	The CD-3000+SV, with network card, accepts Strand Show Net, SACN (Net 3), ArtNet, Net 2, and Pathport protocols for universal application.	The Strand C21 only accepts Strand Show Net. Easy integration with popular lighting consoles is **not** possible.
Control Processor Swap Outs:	The CD-3000+ Control Module can be easily swapped if needed. All settings are backed up on a removable memory module. Power is not required to complete this option. Plug & play!	The Strand C21 requires a computer with a compatible network browser to remove and reload settings stored on the C21 control module. You also must have the rack powered on to complete this operation. The network cable must also be installed and accessible.
Auxiliary Options:	The CD-3000+ provides 12VDC to auxiliary stations or peripheral devices allowing easy integration with third party controls. It also allows for up to four (4) analog inputs allowing easy integration for old or outdated but not easy to replace legacy stations.	The Strand C21 does not support analog stations or a 12V output port for powering external devices and equipment.
Documentation and Manual:	The CD-3000+ comes with a full installation manual detailing every step of the installation, operation, and programming of the new control system.	The Strand C21 does not come with any manuals or installation instructions!

The claims made in this comparison were provided by independent technical industry veterans experienced in the installation of dozens of Strand's C21 retrofits.

For additional CD-3000+ product details and models, please click here.

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