

product fact sheet

## C2IP Camera Control System

### Flexible Ethernet Camera Control



Grass Valley™ products from Thomson Broadcast & Media Solutions offer the most comprehensive, multi-format solutions for acquisition, production, storage and playback—and a strong foundation for centralized, proactive status and activity monitoring. These solutions include one of the broadest selections of standard-definition (SD) and high-definition (HD) digital video cameras.

Expanding the capabilities of the Grass Valley camera line is the C2IP (Camera Control over IP network) camera control system. Supporting all digital Grass Valley LDK cameras, it offers Ethernet-based control of up to 99 cameras using standard IP networking for live and multi-camera productions.

The C2IP system offers a new operational control panel with features normally found in conventional master control panels; a new master control panel that can dramatically speed camera setup and reconfiguration; and a new base station data/network module designed for easy upgradeability. The C2IP system also provides an easy migration path from the Grass Valley Series 9000 camera control system.

For comprehensive camera control, the OCP 400 operational control panel of the C2IP system includes capabilities found only in conventional master control panels, such as variable matrix control, fine skin-detail adjustments, and installation adjustments. It is also one of the smallest control panels available, making it a great fit for mobile productions and studio settings with space restrictions.

The OCP 400 features plug-and-play Ethernet connectivity, an intuitive interface for easy operation, and pre-illuminated buttons and text-screenings for dim-light environments. It supports all Grass Valley digital LDK Series cameras.

The MCP 400 master control panel offers similar high performance, including powerful production features and tools not available with any other camera control system.

For example, instead of laboriously querying each camera on your network to obtain its operational settings, the MCP 400 interprets and logs all network activity between cameras and control panels—automatically.

### key features

- Ethernet-based camera control system
  - Supports 10/100Base-T networks
  - Uses TCP/IP protocol
  - Uses off-the-shelf standard network infrastructure
- Supports all Grass Valley digital LDK Series cameras
- Camera control
  - Multi-camera control supports up to 99 cameras
  - Multi-point control supports multiple control points per camera
- OCP 400 operational control panel
  - Features capabilities found in conventional master control panels
  - Comfortable, very compact (82 mm wide) design
  - Intuitive interface
  - Hard-style buttons
- MCP 400
  - Touch-screen interface
  - Automatic data logging of all camera settings
  - Tools for fast reconfiguration/adjustment of camera settings
  - Can save settings to USB memory media
- Accepts USB input devices
- Three mounting configurations
- 4 RU, 19-inch rack mount
- Desktop mount
- Swing-arm mount
- LDK 4500 SL base station supports C2IP and Series 9000 control systems
- Supports Grass Valley NetConfig™ software for fast configuration
- Supports remote access via Web-browser interface

You can also use the data-gathering capabilities of the MCP 400 to adjust camera parameters on the fly. You can, for instance, use the panel's spreadsheet-like interface to review the paint settings for all cameras in your production, and then adjust them across the board or on a camera-by-camera basis.

For studios that support recurring productions, or mobile trucks that cover similar sporting events at different venues, the MCP 400 can save camera and production settings on standard USB storage media. You can even e-mail the files on this USB storage media from one venue to the next. When you're ready, you just load the settings into the panel using USB media.

The LDK 4500 SL base station data/network module of the C2IP camera control system supports both the new Ethernet-based system and the Grass Valley Series 9000 system. Its modular design lets you add new features easily, future-proofing your investment.

For easy migration of your Series 9000 camera control system to the C2IP system, you can add a conversion box to an existing Series 9000 base station or a TTV 1685/1686 CCU to upgrade it for use with the C2IP system.

The C2IP camera control system supports the Grass Valley NetConfig software for rapid configuration across an Ethernet network. It also supports remote access via a Web-based interface.

## World Class Service

Grass Valley products from Thomson are built to exact standards and backed with a comprehensive hardware and software warranty that includes:

- Technical phone support during regular business hours in your area
- Online database of frequently asked questions (FAQ)
- Advance exchange of product modules

We also offer enhanced services such as:

- Professional Consulting Service (Network Design & Installation)
- Expert Onsite Support (Commissioning & Preventative Services)
- Service & Parts Support Agreements
- Technology & Continuing Education Programs
- Product Operation & Maintenance Training Programs

For more information, please visit [www.thomsongrassvalley.com/support](http://www.thomsongrassvalley.com/support).

## About Grass Valley

If you watch TV or go to the movies, you've seen Grass Valley products at work. That's because we offer the most comprehensive, multi-format solutions for acquisition, production, storage, and playback—and a strong foundation for centralized, proactive status and activity monitoring. With Emmy® award-winning products and world-class technical and service expertise, we're the experts in professional video and film technologies—especially as broadcast, television, and film production go digital. And we've got the Emmy award-winning technologies and the top-flight customers to prove it.

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