

## LDK 500

### Industry's First 14-Bit Digital Camera



Grass Valley™ products from Thomson 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.

Continuing to advance the field of high-quality acquisition, the Grass Valley LDK 500 camera features the industry's first 14-bit analog-to-digital conversion circuitry, a completely new digital video processing architecture, and an excellent signal-to-noise ratio to provide the highest possible image quality of any comparable camera.

Due to its 14-bit design and new video processing architecture, the LDK 500 offers powerful digital processing features not available in any other camera—features that you can also control remotely via the new Grass Valley C2IP™ Ethernet-based camera control system.

The LDK 500 is available with DPM sensors, which offer easy switching between 16:9 and 4:3 aspect ratios without a change of resolution or viewing angle, FT sensors, and ultra-low smear (–140 dB) IT and ITW sensors. The IT and ITW sensors feature a high sensitivity of F14/2000 lux so you can shoot in a variety of low-light and high-contrast situations.

In the studio, the LDK 500 offers a number of new, key benefits for more efficient acquisition of high-quality digital images. Chief among them is a freeze-frame capability that helps engineers set camera parameters such as skin tone, and synchronize multiple cameras without on-air talent having to be present. While conventional cameras force talent to sit on a set while these adjustments are made, the LDK 500 can capture a single frame and let engineers do the rest. This approach also facilitates highly accurate camera image comparison between multiple cameras on a set.

### key features

- Based on popular LDK 200 camera head
- 14-bit A-to-D conversion
- New digital processing architecture and video processing unit for unrivaled image quality
- Excellent signal-to-noise ratio
- Supports DPM, FT, IT, and ITW CCDs
- Compact size and low weight
- Three remote controllable filters (NDs, optical/digital effects, and electronic color filters)
- Electronic filters
  - Sepia
  - Customizable soft focus (with or without center spot)
  - Gradient
- Full studio functionality using LDK 5430 triax adapter:
  - Teleprompter with power
  - Dual returns
  - Tracker communication
- Docks with wide range of other adapters, including wireless and those associated with DVCPR050 configurations
- Serial digital lens interface, including integrated handgrip zoom control
- Intuitive ergonomic design includes improved zoom grip, new shoulder pad, and rotary triax connection
- Supports Grass Valley C2IP Ethernet camera control system
- Supports Grass Valley Digital Wireless Triax Camera System
- Supports full range of Grass Valley camera accessories
- Use with SuperXpander enables flexible configuration with studio lenses, accessories

Inspired by and exceeding the capabilities of the popular LDK 200 camera head, the LDK 500 camera can be used with current and future Grass Valley standard definition digital (SDTV) adapters as well as the new Grass Valley Digital Wireless Transmission System. The camera also features a serial digital lens interface, including an integrated handgrip zoom control.

The LDK 500 camera features three layered remote controllable filters. It also includes a unique array of digital filters such as customizable soft-focus filters (with or without adjustable center spot), gradient filters, and a sepia filter, to provide operators with a full palette of artistic choices.

In addition to its standard features, the unique architecture of the LDK 500 lets you add software plug-in features to increase the camera's effectiveness. These features include a multi-matrix color corrector that lets you adjust a single color in a frame without affecting the others.

### 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.

### Headquarters

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