

Real-Time Enterprise Class Digital Video



The central server manages Web pages that are used by the client workstations.

ClearCast is an enterprise class digital video and audio recording system that can integrate hundreds of cameras and offers real-time record rates to 30 fps per channel. ClearCast introduces an industry-changing compression technology that will lower the cost of video transmission and storage without sacrificing picture quality.

The system will significantly increase your video storage capacity. The real-time data compression rates for the system are 150 kbps to 1.5 Mbps* based upon 30 fps per channel.

The system's Web browser, connected via a network PC, can provide live or playback images while recording. ClearCast can also access streaming video over the Internet for remote access.

User-selectable parameters for quality, image size, and color content provide optimal user control for integrating new and existing camera systems.

* Data rates will vary according to differences in camera quality, scene content, and signal quality.

ClearCast uses industry standard components. The typical system configuration includes one or more of the following:

- Eight-camera capture station
- Web-based Client Workstation
- Network Control Unit (NCU)

The capture station compresses and stores video and audio signals onto internal hard drives while permitting both local and remote access for playback and live viewing. Internal RAID-5 hard drive configuration provides up to 30 days real-time recording or months of non-real-time recording. If needed, external storage solutions are available for extended storage requirements.

ClearCast ensures maximum up-time by continually monitoring each camera in the system to assure that recording is being performed correctly. In addition, the system will also identify video loss and other conditions that disrupt normal operation.

Features

- Industry-changing compression preserves picture quality
- Real-time recording to 30 fps per channel and data rates at either 320 x 240 or 640 x 480 resolution
- Full frame recording without use of simulation or scene filling—records exactly what you see
- Three-stage architecture: Capture/recording station, Network Control Unit, Web Client Workstations
- Internal RAID-5 storage supports up to 30 days of real-time recording per channel; months of non-real time recording
- Adjustable recording rates, image size, and quality settings per camera
- Simultaneous record, playback, and live streaming
- Scalable LAN/WAN/Internet via eight-input capture stations
- Capture station features eight-camera inputs and optional audio recording configuration
- All video is watermarked for superior image integrity
- Web-based client workstations can access all live/playback video, initiate searches, create self-playing evidence CDs and perform administrative services
- Optional services: extended external storage and gaming audit software



Client workstations are Web-based for ease-of-use. Multiple workstations can view the same live or recorded video simultaneously, as well as conduct searches for specific video, create an evidence CD, and perform assigned system administrative functions.

The Network Control Unit keeps track of what video is on which capture station or on any optional central storage devices and manages the Web pages used by the client workstations.

Administrative services include definable user rights to view a specific area's cameras, request system status reports,

edit/view the system database, and implement system changes. Distributed system management permits the ability to remotely update all system components automatically to the latest available software. Network Control Unit operation is transparent during normal operation.

Playback and Live View



Cameras are combined into user-defined areas that can be called-up for playback and live views. These user-defined areas can include cameras from any capture stations in the system.

The client workstation offers live video of user areas and includes single-, multiple-, and full-screen views.

Playback video can be viewed on the playback viewer, which offers VCR-style playback controls including fast-forward and a full set of search parameters. Screen options include the viewer screen, 2X, and full-screen.

Technical Specifications

Capture Station

Camera Inputs: 8 terminated BNC NTSC/EIA or PAL/CCIR (color and/or B/W)

Audio Inputs: 8 (one per camera input) 3.5 mm stereo mini-jack; line level
*Order as option

Video Out: 1 SVGA (DB15M)

Network: Ethernet 100/1000 Mbps

Data Rate: 150 kbps – 1.5 Mbps per channel

Dimensions: 7 in. H x 16.75 in. W x 26.5 in. D (178 mm x 426 mm x 673 mm) includes rails(4U)

Power: 115 VAC, 60 Hz
220 VAC, 50 Hz

Weight: 48lbs (21.772 kg) no drives

Image Size: 320 x 240, 640 x 480, CIF, and custom

Record Rate: 1 – 30 fps per input
1 – 25 fps per input (PAL) (selectable per channel)

Record Quality: Q-Level 1 – 29 (selectable per channel)

Hard Drive*: O/S Drive = 40 GB
Data Drive = 160 GB – 2 TB
RAID-5 (removable)

O/S: Windows XP Pro

Operator Workstations

Computer Type: Pentium 4 Class Mini-tower, DVD-R, 64 MB video card, 1 GB RAM, 40 GB hard drive, mouse, keyboard, Ethernet card, Windows XP Pro

Monitor: Provided by User (recommended 17 / 19 inches)

Central Server

Computer Type: Pentium 4 Class 4-RU case, DVD-R, 64 MB video card, 512 MB RAM, 40 GB hard drive, mouse, keyboard, Ethernet card, Windows 2000 Server and application software.

Dimensions: 7 in. H x 16.75 in. W x 26.5 in. D (178 mm x 426 mm x 673 mm) includes rails(4U)

**Ordering - Contact you GE Interlogix representative for system ordering.*



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