

SPECIFICATIONS |

Electrical

| | |
|------------------------|---|
| Video Input: | 1 Vpp Composite Video, 75 ohm, Unbalanced, Terminated |
| Video Format: | NTSC or PAL |
| Video Output: | AGP/Horizontal Frequency: 24 KHz - 65 KHz |
| Vertical Frequency: | 50 Hz - 100 Hz |
| Relay Output: | Max Ratio of Relay 250 V, 15A |
| Audio Input: | Computer Audio (Mono) |
| Frequency Response: | 10 Hz - 100 KHz |
| Signal to Noise Ratio: | 48 dB |
| Sampling Rate: | 5 KHz - 22.1 KHz (Playback/Recording) |
| Mic Impedance: | 39k Ohms |
| Line-In Impedance: | 600k Ohms |
| Mic Sensitivity: | 10 - 200 mVpp |
| Line-In Sensitivity: | 0 - 2 Vpp |
| AD/DA Resolution: | 8 bits |
| Rated Power: | 110-120 VAC, 180 Watts (Desktop); 300 Watts (4U) 48 VDC, 180 Watts (Custom PS) |

Mechanical - Standard/Large Desktop

| | |
|-----------------|--|
| Keyboard: | PS/2 Connector |
| Mouse: | PS/2 Connector |
| Ethernet: | RJ45 10/100BaseT (Auto Sense) |
| Video In: | 4, 8, 16, or 32 BNC (Model Dependent) |
| Video Out: | 15-pin High Density |
| Audio In/Out: | Computer Audio (Mono) |
| Hard Drives: | Max 3 Drives for Standard Desktop Max 4 Drives for Large Desktop Removeable Hard Drive Option |
| Ext. Interface: | 25-Pin D Connector Event & Relay I/O; 15-Pin (Female) for DVRX Quattro; 6 USB Ports |
| RS-232: | One 9-Pin Serial Port |
| Dimensions: | Std Desktop: (1 box x 14.5" W x 16.25" D x 5.4" H) Large Desktop: (1 box x 17.5" W x 18" D x 5.25" H) |
| Construction: | Steel with Injection-Molded Front Panel |
| Weight: | 35 lbs |

Mechanical - Industrial 4U Desktop, Wall, or Rack

| | |
|------------------|---|
| Accessibility: | Lockable Door with Lexan Window for Access to CDRW, On/Off Reset, Reset Switch, or Disk drive |
| Keyboard: | PS/2 Connector |
| Mouse: | PS/2 Connector |
| Ethernet: | RJ45 |
| Video In: | 4, 8, 16, or 32 BNC (Model Dependent) |
| Video Out (VGA): | 15-pin High Density |
| Audio In/Out: | Computer Audio (Mono) |
| Hard Drives: | Max 3 Drives for Standard Desktop Max 4 Drives for Large Desktop Removeable Hard Drive Option |
| Ext. Interface: | 25-pin D Connector Event & Relay I/O; 15-pin (Female) for Certain 4-Camera Systems; 6 USB ports |
| RS-232: | One 9-Pin Serial Port |
| Dimensions: | 1 box x 19" W x 18" D x 7" H |
| Rack Mount: | 19" Rack; Rack Mount Ears Included |
| Construction: | Steel with Aluminum Front Panel |
| Weight: | 45 lbs |

Listings/Conformity

| | |
|-----------------|---|
| Power Supply: | UL Listed, Level III & CE |
| FCC Compliance: | Designed in Accordance with FCC Part15, Subpart A |

Environmental

| | |
|------------------------|--|
| Operating Temperature: | +18°C - +40°C; +0°F - +104°F |
| Operating Humidity: | 5 - 90% Relative Humidity Non-Condensing |



4U Rack-Mount Case



Standard Desktop Case



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GEN-0905-PG



MARATHON PRODUCT GUIDE

PRODUCT OVERVIEW

cVideo's Marathon product family includes Windows 2000-based digital video systems. Marathon systems are offered with both transmission and recording options or transmission only. This product guide will help you select the products and applications right for you. For additional information, see the cVideo Web site - www.cvideo.com.

cVideo systems are currently serving the following markets:

- Banking/Financial
- Campus
- Corporate
- Government
- Hotel
- Retail/Convenience
- Telco/Utility
- Transportation

cVideo's growing list of digital video solutions include:

- Access Control Integration
- ATM/Teller Integration
- Central Station Integration
- Intelligent Video Detection
- Point-of-Sale Integration
- Network-Wide Remote DVR Management



SERVER COMPARISON

The chart below identifies the basic capabilities of core cVideo products by Video Server type.

Marathon DVRX Version 5.7: 4-, 8-, 16-, or 32-camera digital video recording and live video transmission system. New capture card technology offering up to 240 FPS, Video Intelligence, and video quality monitor/alert.

Marathon DVRXe: 4, 8-, or 16-camera digital video recording and live video transmission system. Perfect solution for basic video verification.

Have Questions?

Call us toll-free!

1.877.cvideo1

| Feature | Marathon DVRX | Marathon DVRXe |
|---|-------------------------|-------------------------|
| Recorder/Transmitter (LiveViewing) | Both | Both |
| File Management (for Recording) | Yes | No |
| Camera Inputs | 4, 8, 16, or 32 | 4, 8, or 16 |
| Maximum Hard Drive Storage Capacity | Up to 2 Terabyte | Up to 20 Minutes |
| Equipment Enclosure | Desktop or 4U | Desktop or 4U |
| Number of Equipment Enclosures | Single Box | Single Box |
| CDRW | Yes | No |
| Archive to CD (One-Touch Offload) | Yes | No |
| ATM & POS Interface | Optional | No |
| Available Resolutions | 640x480, 320x240 | 320x240 |
| Frame Rate | Up to 240 FPS | Up to 20 FPS |
| Transmit at 1/2 Record Resolution | Yes | Yes |
| Per-Camera Recording Schedules | Yes | No |
| Per-Camera Frame Rate | Yes | Yes |
| Separate Record/Transmit Compression Settings | Yes | Yes |
| Single-Channel Audio Recording | Yes | Yes |
| Half-Duplex Single-Channel Audio | Yes | Yes |
| Full-Duplex 8-Channel Interactive Audio | Optional | Optional |
| Single-Channel Audio Recording | Yes | Yes |
| Hardware Event-Based Recording | Yes | Yes |
| PTZ Control (Kalatel, Pelco, Philips, VCL) | Yes | Yes |
| Intelligent Bandwidth Throttle (Limits Transmission Speed) | Yes | Yes |
| Relay Output for Video Loss or System Fault | Yes | Yes |
| Remote Connectivity (Broadband or POTS) | Yes | Optional |
| Watchdog Circuitry with Automatic System Restart | Yes | Yes |
| System and Event Logging | Yes | Yes |
| E-Mail Alert Notification | Yes | No |
| Video Server Display (Live Video Viewing on Video Server) | Yes | No |
| Software Motion Detection/Motion-Based Recording | Yes | No |
| Remote Configuration Utility | Yes | Yes |
| Video Search | Yes | Yes |
| Enhanced Video Intelligence (Motion/Non-Motion Detection) | Optional | No |
| Removeable Hard Drives | Optional | Optional |
| Hardware Event Inputs | 4 Standard, 16 Optional | 4 Standard, 16 Optional |
| Relay Outputs | 2 | 2 |

VIDEO RECORDING |

Patented wavelet compression, originally designed for the U.S. military, provides high-quality video recording without compromising valuable disk space. Per-camera recording schedules can be set using any one or combination of the following modes:

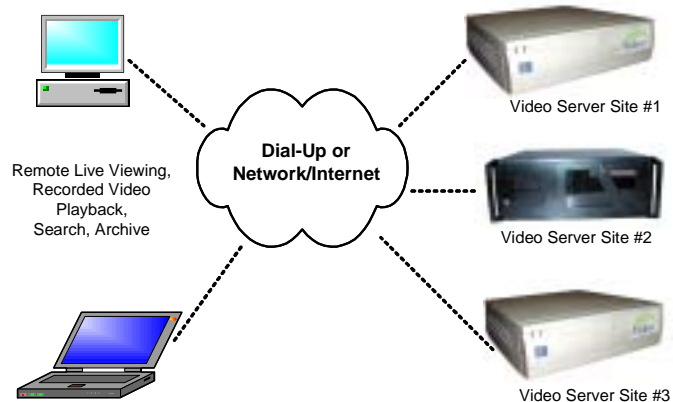
- Continuous
- Event-Driven
- Off

Per-Camera frame rates are available with a "lock" feature to maintain a specific rate for one or more cameras. Alternatively, frame rates can be distributed equally among available cameras. An alternate maximum frame rate can be specified for a specific period of time.

Recording can be triggered by software motion detection or alarm input with up to 10 distinct user-defined motion zones per camera, and unique motion sensitivity settings per camera. Event recording (alarm input or software motion) supports up to 3 minutes of pre-event recording and up to 24 hours of post-event recording.

The Video Server records compressed or uncompressed, synchronized, single-channel audio.

All recorded video is protected and watermarked by cVideo's proprietary file format and an authentication algorithm that verifies the video has not been altered.



LIVE VIDEO TRANSMISSION & VIEWING |

Video can be viewed on the Video Server (except for DVRXe systems) or from the Video Panel application running on a Client computer. The Video Panel is a single application that offers access to live video, recorded video, search options, and a number of setup options. cVideo technology enables users to record and transmit at different rates. Typically, a higher resolution and frame rate is used for recording, while a lower resolution and frame rate is used for speed of transmission from the Video Server to the Video Panel.

cVideo's Intelligent Bandwidth Throttle™ makes dynamic adjustments during live video transmission to ensure the user-specified value (Kbps) is not exceeded and network resources are preserved. Multiple remote networked clients can simultaneously connect to the Video Server to view live video. The operator may connect as a Primary User, if authorized, for full system control of PTZs and other cameras. Subsequent operators are connected as Secondary Users and are limited to views of the Primary User.

When a hardware or software event is triggered, the Video Server can dial out to a remote location, so the remote Client can view event-related video. Live viewing features include 1-, 4-, 9-, and 16-Up views,* camera selection, PTZ control, remote control of up to two relays on the Video Server, and control of half-duplex audio (listen/talk). Live local multiplexed display at the Video Server is available with SVGA monitor output of all active cameras (or optionally an NTSC analog monitor by adding the AOI or AOE option).

* 32 cameras are selected from 2 groups of 16.

VIDEO PLAYBACK |

View recorded digital video from any client PC (that has the Video Panel Client Software installed). Browse for video from the Video Panel or use the Search tool to find the video on any number of Video Servers. The Search tool includes an Easy Search, Custom Search, or Latest Alarm Input Search, and can search for POS or ATM transactions.

Video is recorded in customer-definable digital "video clips" from 10 seconds to 10 minutes in length. Definable clip size permits optimized performance whether review is across the network or a dial-up phone line. Playback features allow normal playback, fast-forward playback, pause, stop, and frame advance, plus Previous and Next clip buttons for fast navigation. Playback views include 1-, 4-, 9-, or 16-up views, depending on the Video Server type. Camera selection controls allow you to play back video from selected cameras. Video includes customer-definable camera titles and a selectable time/date overlay on images, with the option to choose 24-hour or 12-hour clock and time zone.

CLIENT PC REQUIREMENTS |

- IBM-Compatible PC, Pentium IV (1.8 GHz min. Recommended) & Mouse; Windows 2000 Professional, XP Professional, Internet/Network Access
- Anti-Virus and Firewall Protection Recommended
- 256 MB RAM min, 200 MB Free Hard Disk Space
- Video Card/Monitor that Supports XGA 1024 x 768
- Dial-up V.90/V.92 Mode/ISD Modem. LAN 10-/100 Fast Ethernet; TCP/IP Installed for Network/Dial-Up Access
- 800x600 Video, 65,536 Colors or Higher, 16-bit, Small/Large Fonts. POS/ATM 1024x768
- Dial-Out Setting Options Available in Windows 2000/XP Only

Specifications subject to change without notice