

The Calibur digital video multiplexer/recorder (DVMR<sup>e</sup>) is ideal for applications where high-quality multiplexed digital recording is required and economy and ease of use are desired. The DVMR<sup>e</sup>-4CD has an internal HDD (hard disk drive) that eliminates the need for outdated analog VCRs.

The “e” in DVMR<sup>e</sup>-4CD means Ethernet-ready. Review, retrieve and send images or clips from the DVMR<sup>e</sup>-4CD through your network—all while continuing to record. You can even watch live action at the DVMR<sup>e</sup> through your network or take a “snapshot” for sending on e-mail. The DVMR<sup>e</sup>-4CD improves playback picture quality and eliminates hours spent searching VCR tapes for critical events. Direct access to select events is done with a simple on-screen search menu and front panel controls. Search by alarm, time, date, camera, or cash register/ATM text. No PC or complicated software is needed. With optional DAT, AIT or CD-writer digital recording accessories, continuous recordings, images, and clips can be archived automatically for days, weeks, or longer.

The DVMR<sup>e</sup>-4CD is set up through QuickInstall on-screen menus. Record and playback functions closely emulate a security VCR, so operation is intuitive. There are no new technologies to learn.

The DVMR<sup>e</sup>-4CD. Exceptional quality digital recording, multiplexer functionality, automation, internal and external digital archiving, and easy setup and use.

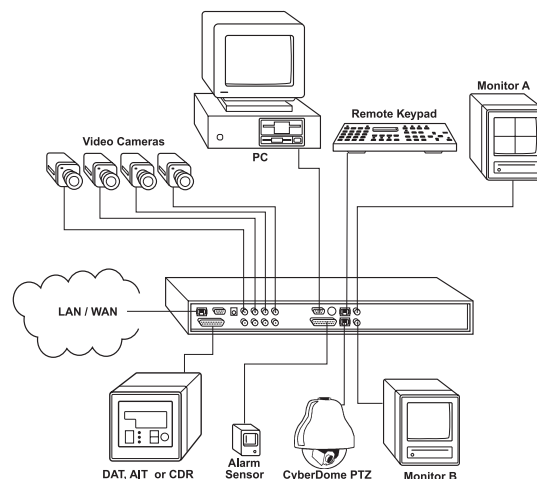


The DVMR<sup>e</sup>-4CD: a 4-camera, color, duplex digital video multiplexer/recorder

### Features

- Multiplexer functionality with built-in, state-of-the-art digital recording
- Ethernet network capability, TCP/IP protocol
- Live “look-in” through your network
- Continue recording while you review, retrieve, or store images on your network
- WaveReader software supplied
- Wavelet compression
- Event or various time-lapse record speeds from 2- or 3-hour mode up to 960-hour mode
- Video motion detection (intrusion) and activity detection with active feedback setup scope
- Pre- and post-alarm recording
- Selectable record image quality: high, medium, or extended record duration
- Archive on DAT, AIT, or recordable CDs
- Secret watermark verifies that recorded or shared images have not been altered
- Save images as JPEG or BMP for easy distribution on e-mail
- ADM auto-delete mode to automatically delete recordings after 30 days
- Electronic PTZ
- Motorized PTZ control with CBR-KB3/J keypad\*
- Cascade up to 31 DVMR<sup>e</sup>s using RS485
- RS232 and/or RS485 remote control, setup, upload/download, and diagnostics
- AutoInstall™ with AutoList™, automatic termination, automatic camera detection, automatic gain control

\*Call Kalatel for a list of supported third-party PTZ hardware. Additional Calibur hardware may be required in some systems.



### System Diagram

The DVMR<sup>e</sup>-4CD connects to up to 4 cameras. Two monitors can be used to view multiscreen in play and live or switched full-screen display. Archiving can be done to DAT/AIT/CD through the SCSI port. Network connection through RJ45 connector. External alarm sensors can be connected with DB25. Remotely controlled by a PC through RS232 or RS485 ports. A total of 32 DVMR<sup>e</sup>s and keypads can be connected to the same RS485 network.

### Technical Specifications

#### Archive

DAT or AIT or CD-Writer: One 50-pin SCSI-2 port, DB 50-S-SCSI (reversed). (Call Kalatel for recommended models.)

#### Network

One RJ45 connection for 10/100 Mb Ethernet

#### Video

Display memory: 2048 x 512 memory array, 8 MB total display memory

Colors: YUV 4:2:2, 16.8 million colors

Grayscale: 256 levels

Horizontal resolution: 720 pixels

Vertical resolution: 484 active lines NTSC/EIA, 576 active lines PAL/CCIR

#### Alarm Handling

Alarm inputs: 4 programmable NO or NC in menus

Alarm outputs: 2 form C relays, each NO and NC. Rated 0.5 A continuous, 1.0 A momentary.

Alarm latching: 3 settings: latched; transparent; timed-out. Programmable 1-100 seconds.

Alarm recording: Automatic priority control, interleaved or exclusive, or none. Programmable.

Alarm displays: Automatic alarm multiscreens. Programmable.

#### Video Motion and Activity Detection

Zones per camera: 256, 16 x 16 grid

Sensitivity settings: 10 levels

Gray levels per zone: 256 levels

False-alarm-rejection processing: 3 levels

Size discrimination: 256 levels

Recording priority: 2x, 4x, interleaved, or none

Status output: Link to relay

#### Recording

Hard drive: 30,80, or 160 GB (or larger—call Kalatel)

Record speed: Selectable; event, 2/3, 12, 24, 48, 72, 168, or 960 hr (30 fps, 10 fps, 5 fps, 3 fps, 2 fps, 1 fps, .125 fps)

Compression: Wavelet format; standard, medium, and high-resolution settings selectable per camera

#### Miscellaneous

Input voltage: 12 VDC, 90 V - 264 V. AC/DC adapter included.

Power: 35 w nominal

Temperature: 0 to 40 °C (32 to 104 °F), operating

Relative humidity: 90%, noncondensing

Dimensions: 17.5 x 14 x 1.7 in. (444 x 360 x 43 mm)

Weight: 9 lbs (4 kg)

#### Ordering Information

DVMR<sup>e</sup>-4CD: Duplex, color, NTSC/EIA

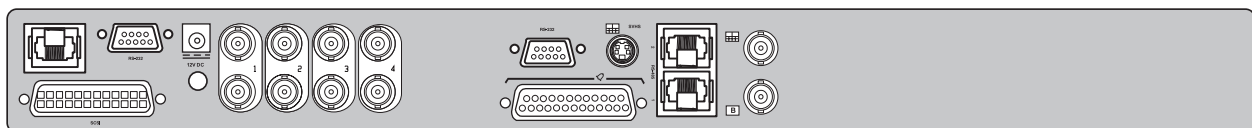
DVMR<sup>e</sup>-4CDX: Duplex, color, PAL/CCIR

CBR-KB3(X): Optional remote keypad, includes motorized PTZ control capabilities

CBR-KB3/J(X): Same as CBR-KB3 but with proportional joystick control

CBR-RK3: Optional 1U rack-mount kit

CBR-PB2: Optional probridge for PTZ applications (contact Kalatel for available models)



Rear Panel Inputs and Outputs

#### Inputs

Camera: 4 looping, BNC connectors, NTSC/EIA or PAL/CCIR compatible, auto-terminating

Conditioning: AGC, 0.7 to 2.0 V pk-pk video accepted

Termination: Automatic, 75 ohm or Hi-Z if looped

#### Outputs

Monitor: 3: 1 MON-A multiscreen output, BNC connector

NTSC/EIA or PAL/CCIR compatible; 1 MON-A multiscreen output, S-VHS, 4-pin mini-DIN; 1 MON-B

full-screen switched, BNC connector, NTSC/EIA or PAL/CCIR compatible

SCSI-2: 1 50-pin SCSI-2 port, DB 50-S-SCSI

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