

The CBR-16eZ is ideal for applications that require quick and easy installation and operation in stand-alone installations. Along with ease of use, the CBR-16eZ offers exceptional live monitoring and multiscreen live and playback display. Cameras can be viewed in any of three different multiscreen formats while full resolution pictures from all cameras in your system are sent to a VCR. Patented Parallel Video Processing (PVP™) outputs up to 50/60 (PAL/NTSC) unique pictures per second to your monitor and delivers closer-to-real-time display than conventional multiplexers. VEXT automatically optimizes multiplexer/VCR synchronization and prevents loss of critical pictures regardless of VCR record speed or how often record speeds change.

Easy to install, the intelligent CBR-16eZ is set up using a simple quick reference guide and intuitive on-screen menus. Tapes recorded using other multiplexers can be played back, allowing retrofit without loss of investment or access to tape archives.

The CBR-16eZ. Excellent live display and exceptionally easy to install and operate.

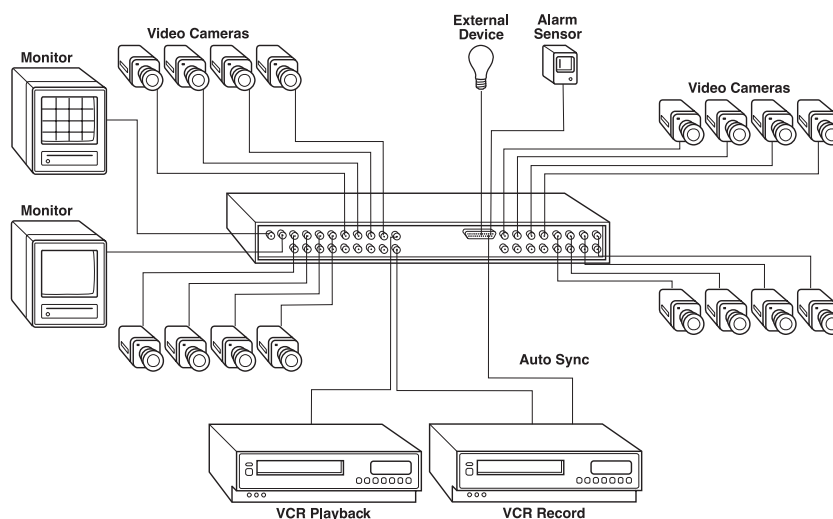


*The CBR-16eZ, a 16-camera, color, duplex video multiplexer*

### Features

- AutoInstall™ with automatic camera detection, automatic color/mono detection, automatic setup of sequencing lists and record lists, automatic gain control
- PVP™ ultrafast monitor update speed
- VEXT automatic VCR record speed synchronization to simplify installation
- One-touch VCR view for easy VCR setup
- Video motion detection (intrusion) and activity detection with active feedback setup scope
- Live in full-screen, sequencing, quad, 9-up or 16-up display
- Playback in full-screen, sequencing, quad, 9-up or 16-up display
- Covert camera feature removes selected camera(s) from display without altering recording
- One-touch "freeze"
- Electronic PTZ
- 16 alarm inputs, 2 relay outputs (one for alarms, one for video loss)
- Manually activated alarm
- Plays back tapes made by other manufacturers' multiplexers\*
- Password controlled access to setup menus
- Time, date and titling display
- Battery backup of setup memory

\* Call Kalatel for a list of other multiplexer manufacturers whose tapes our units will play back.



### System Diagram

The CBR-16eZ connects to up to 16 color or monochrome cameras. Two monitors can be used, one multiscreen and one 'Spot' monitor. VEXT connection ensures automatic and precise multiplexer/VCR synchronization. The VEXT connector and cable are provided. One external alarm sensor can be connected per camera.

### Technical Specifications

#### Video

**Display memory:** 2048 x 2048 memory array, 32 MB live/play plus 32 MB record = 64 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  
**Sampling rate:** 17.7 MHz (PAL/CCIR), 14.2 MHz (NTSC/EIA)

#### Alarm Handling and Video Loss

**Alarm inputs:** 16 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. One relay active while an alarm is active, one active during video loss.  
**Alarm latching:** 3 settings: latched, transparent, timed-out. Programmable 1-99 seconds  
**Alarm recording:** Automatic priority control, interleaved  
**Alarm displays:** Automatically switch to alarmed camera

#### Video Motion and Activity Detection

**Zones per camera:** 256, 16 x 16 grid, programmable  
**Gray levels per zone:** 256 levels  
**Sensitivity settings:** 10 levels with active feedback setup scope  
**Activity recording:** Automatic priority control, interleaved  
**Intrusion:** Link to alarms, programmable per camera

#### DB-25 Pinouts

##### Pin # Designation

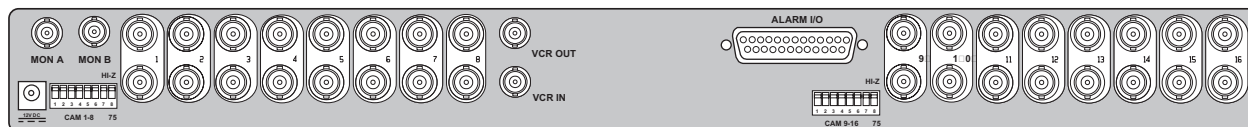
1-16: Alarm inputs, NO or NC, programmable  
 17, 21: Alarm out, relay #1, NO or NC, isolated  
 18-20: Ground  
 22, 25: Video loss out, relay #2, NO or NC, isolated  
 23: Alarm acknowledgment input, NO  
 24: VCR camera switch input (VEXT)

#### Miscellaneous

**Input voltage:** 12 VDC, 90 V - 264 V AC/DC adapter included  
**Power:** 25 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

**CBR-16eZ:** 16-camera, duplex, color, NTSC/EIA  
**CBR-16eZX:** 16-camera, duplex, color, PAL/CCIR  
**CBR-ALM:** Optional alarm input module



Rear Panel Inputs and Outputs

#### Inputs

**Camera:** 16 looping, BNC connectors, NTSC/EIA or PAL/CCIR compatible  
**VCR:** 1 NTSC/EIA or PAL/CCIR compatible, BNC connector  
**Conditioning:** AGC, 0.7 to 2.0 Vp-p video accepted  
**Termination:** Manual ON/OFF 75 ohm on rear panel, per camera

#### Outputs

**Monitor:** 2: 1 MON-A multiscreen output, BNC connector, NTSC/EIA or PAL/CCIR compatible; 1 MON-B full screen switched, BNC connector, NTSC/EIA or PAL/CCIR compatible  
**VCR:** 1 NTSC/EIA or PAL/CCIR compatible, BNC connector.

#### Kalatel

PMB 225, PO Box 3004  
 Corvallis, OR, USA 97339  
 www.kalatel.com

#### Americas

toll free 800-469-1676  
 tel 541-754-9133  
 fax 541-754-7162

#### Asia

tel 852-2907-8108  
 fax 852-2142-5063

#### Australia

tel 61-3-9259-4700  
 fax 61-3-9259-4799

#### Europe

tel 32-50-51-32-34  
 fax 32-50-51-66-28