

The CBR-16CDT offers today's best playback and live display, system automation and alarm management. Cameras can be viewed in any of several different multiscreen formats while full resolution pictures from all cameras are recorded to a VCR. Unique Triplex™ performance displays a custom mix of live and playback images simultaneously on one monitor. Patented Parallel Video Processing (PVP™) outputs up to 60/50 (NTSC/PAL) unique pictures to your monitor and VCR to deliver more recorded documentation and 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 use, intelligent and watchful, the CBR-16CDT is set up through QuickInstall on-screen menus. Connected VCRs can also be controlled from the multiplexer. Macros trigger a prerecorded key sequence, offering one-button response to alarms, guard shift change or day/night setups. Video Motion Detection "sees" alarm conditions, displays user-defined associated cameras, activates external devices and keeps a history log.



The CBR-16CDT, a 16-camera, color, Triplex™ video multiplexer

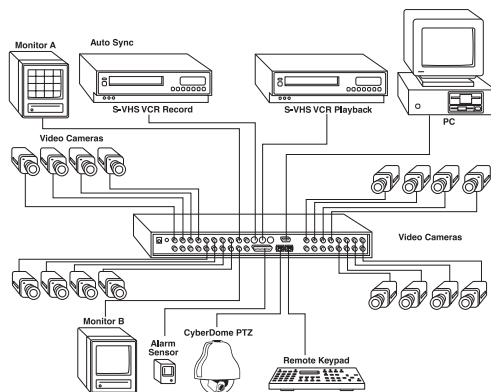
Features

- Triplex™ simultaneous live and playback on one monitor
- PVP™ ultrafast VCR and monitor update speed
- VEXT automatic VCR record speed synchronization
- Video motion detection (intrusion) and activity detection with active feedback setup scope
- S-VHS VCR input and output
- S-VHS monitor output
- Live in full-screen, sequencing, PIP, quad, 7, 9, 10, 13 or 16-up display
- Playback in full-screen, sequencing, PIP, quad, 9, 10 or 16-up display
- Covert camera feature removes selected camera(s) from display without altering recording
- One-touch "freeze"
- Electronic PTZ
- Associated multicamera display upon alarm
- 16 alarm inputs, 2 relay outputs
- Alarm history display (100 events)
- Manually activated alarm
- VCR control from the multiplexer
- 16 macros
- Motorized PTZ control and programmable presets on alarm with CBR-KB3/J keyboard*
- Supports up to 31 keyboards via RS-485
- Cascade up to 31 multiplexers and control up to 496 PTZs via RS-485
- RS-232 and/or RS-485 remote control, setup upload/download and programming
- Plays back tapes made by other manufacturers' multiplexers**
- Setup view screens show entire system setup
- Two passwords for supervisor or standard user
- AutoInstall™ with AutoList™, automatic camera detection, automatic termination, automatic gain control
- Time, date and titling display
- Battery backup

The CBR-16CDT. Today's most advanced picture processing, intelligent control and integration, alarm detection and management.

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

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



System Diagram

The CBR-16CDT connects to up to 16 cameras. Two monitors can be used, one to view multiscreen display and one to view sequencing full-screen display. Two VCRs can be used, one to record and one to play back. VEXT connection ensures automatic and precise multiplexer/VCR synchronization. One external alarm sensor can be connected per camera. Remotely controlled by a PC via RS-232 or RS-485. A total of 32 multiplexers and keyboards can be connected to the same system.

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

Alarm inputs: 16 NO or NC setup 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 relays, alarms

Remote Control and Programming

RS-232: DB-9, female. 3-wire, N-8-1, baud rate selectable in menus. Allows remote programming of menus, upload of status data, remote control of front panel buttons.
RS-485: RJ-45, remote keyboard input, looping, up to 3000' without adapters. System time I/O.

DB-25 Pinouts

Pin #	Designation
1, 16:	Alarm inputs, NO or NC, programmable
17, 21:	Alarm out #1, NO or NC, isolated
18:	Ground
22, 25:	Alarm out #2, NO or NC, isolated
23:	Alarm acknowledgment. Input, NO
24:	VCR camera SWITCH INPUT (VEXT)

DB-9 Pinouts

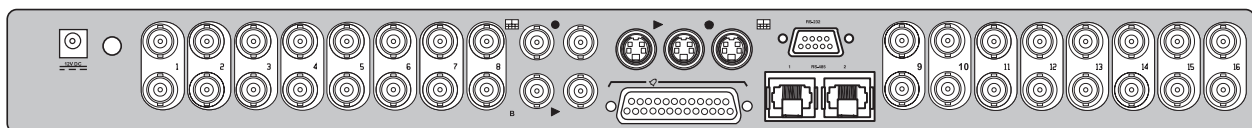
Pin #	Designation
2:	Tx
3:	Rx
5:	Ground

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-16CDT: 16-camera, Triplex™, color, NTSC/EIA
CBR-16CDTX: 16-camera, Triplex™, color, PAL/CCIR
CBR-KB3(X): Optional remote keyboard, includes motorized PTZ control capabilities
CBR-KB3/J(X): Same as CBR-KB3 but with proportional joystick control
CBR-RK2: Optional 1U rackmount kit
CBR-PB2: Optional probebridge for PTZ applications (contact Kalatel for available models)



Rear Panel Inputs and Outputs

Inputs

Camera: 16 looping, BNC connectors, NTSC/EIA or PAL/CCIR compatible.
VCR: 2 NTSC/EIA or PAL/CCIR compatible: 1 BNC connector; 1 4-pin, mini-DIN, S-VHS YC input.
Conditioning: AGC, 0.7 to 2.0 Vp-p video accepted.
Termination: Automatic, 75 ohm or Hi-Z if looped.

Outputs

Monitor: 3: 1 MON-A multiscreen output, BNC connector, NTSC/EIA compatible; 1 MON-A multiscreen output, S-VHS, 4-pin, mini-DIN; 1 MON-B full-screen switched, BNC connector, NTSC/EIA compatible.
VCR: 2: 1 BNC connector, NTSC/EIA or PAL/CCIR compatible; 1 S-VHS VCR, 4-pin mini-DIN, output.

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