

The CBR-16MS, a 16-camera, monochrome, simplex video multiplexer

The CBR-16MS is ideal for applications where recording performance, automation and system control are desired, yet economy and ease of use are required. Live cameras are displayed in full or sequencing full-screen while full resolution pictures from all cameras recorded on a VCR. Patented Parallel Video Processing (PVP^{TM}) outputs up to 50/60(CCIR/EIA) unique pictures per second to your monitor and VCR providing closer-to-real-time display and playback 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 and integrate, the intelligent CBR-16MS is set up through QuickInstall on-screen menus. Macros trigger a prerecorded key sequence, offering one-button response to alarms, guard shift changes or day/night setups. Tapes recorded using other manufacturers' multiplexers can be played back,

Features

- 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
- 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
- Independent monitor A/B sequence and dwell times
- → One-touch "freeze"
- → Electronic PTZ
- → 16 alarm inputs, 2 relay outputs
- → Alarm history display (100 events)
- ☐ Manually activated alarm
- Call Kalatel for a list of supported third-party PTZ hardware.
 Additional Calibur hardware may be required in some systems.

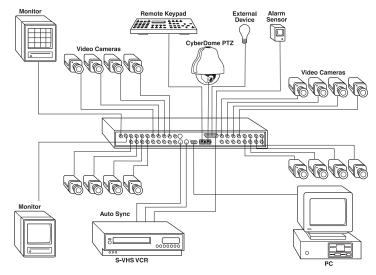
allowing retrofit without loss of investment or access to tape archives.

- → 16 macros
- Motorized PTZ control with CBR-KB3/J keyboard*
- Supports up to 31 keyboards via RS-485
- → Cascade up to 31 multiplexers via RS-485
- → RS-232 and/or RS-485 remote control, setup upload/download
- Plays back tapes made by other manufacturer's multiplexers**
- Setup view screens show entire system setup
- Camera histogram diagnoses correct camera setup
- Two passwords for supervisor or standard user
- → AutoInstall[™] with AutoList[™], automatic camera detection, automatic gain control
- → Time, date and titling display
- → Battery backup

The CBR-16MS. High value recording and display performance, automation and control and easy setup.

System Diagram

The CBR-16MS connects to up to 16 cameras. Two monitors can be used, one to view multiscreen display and one to view sequencing full-screen display. 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.









^{**} Call Kalatel for a list of other multiplexer manufactures whose



Technical Specifications

Video

Display memory: 2048 x 2048 memory array, 32 MB total display memory

Grayscale: 256 levels

Horizontal resolution: 720 pixels

Vertical resolution: 484 active lines EIA, 576 active lines

CCIR

Sampling rate: 17.7 MHz (CCIR), 14.2 MHz (EIA)

Alarm Handling

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.

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: Automatically switch to alarmed camera

Video Motion and Activity Detection

Zones per camera: 256, 16 x 16 grid

Sensitivity settings: 10 levels with active feedback setup scope

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

DB-25 Pinouts

Pin # Designation

1-16: Alarm inputs, NO or NC, programmable

17, 21: Alarm out #1, NO or NC, isolated

18-20: 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

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. Time I/O system. Allows remote programming of menus, upload of status data, remote control of front panel buttons.

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-16MS: 16-camera, simplex, monochrome, EIA CBR-16MSX: 16-camera, simplex, monochrome, 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 probridge for PTZ applications (contact

Kalatel for available models)



Inputs

Camera: 16 looping, BNC connectors, EIA or CCIR compatible

VCR: 1 BNC connector EIA or CCIR compatible. (S-VHS not used).

Conditioning: AGC, 0.7 to 2.0 Vp-p video accepted Termination: Manual ON/OFF 75 ohm on rear panel, per

Outputs

Monitor: 2: 1 MON-A multiscreen output, BNC connector EIA or CCIR compatible; 1 MON-B full-screen switched, BNC connector, EIA or CCIR compatible. (S-VHS not used)

VCR: 1 BNC connector, EIA or CCIR compatible. (S-VHS not used)

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

Rear Panel Inputs and Outputs

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

Document: CBR-16MS-SD0/B/June 2000

