

# 4-CAMERA MONOCHROME SIMPLEX VIDEO MULTIPLEXER

RV1004a



Decrease guard and equipment costs with the RV1004a, which records up to four cameras to one VCR. Simplex technology allows you to display "live" single camera pictures while full-field recording all cameras at the highest resolution. Play back any camera or all connected cameras for detailed event analysis. The RV1004a is easy to set up and use. Intuitive, on-screen menus allow typical setup in under five minutes. No special programming codes are required because the RV1004a integrates automatically to VCRs and system peripherals. Simple push-button operation controls all display/record options and features.

## FEATURES

- *vSync™ for fast installation with VCRs that have a switch pulse output*
- *Use vMax™ to maximize image performance with high resolution cameras*
- *Integrated addressable RS-232 remote control*
- *Dynamic Time Division records more frames from cameras that "see" motion*
- *Display live, single camera images while full-field recording all system cameras*
- *Choose "Quad" mode to record and display in 2x2 format*
- *512 x 464 pixel matrix and 256 shades of gray*
- *Complete alarm capability*
- *Compatible with standard time-lapse VCRs, domes and many other CCTV products*

# Powerful performance, superior quality and easy to use

Viewing and recording pictures from multiple cameras has always caused security and business professionals more than the usual problems and costs. In the past, you used one monitor and VCR per camera in your system and purchased more equipment than really made sense or seemed necessary.

Continuing advancements in multiplexing technology allow you to record up to four cameras to one VCR. Simplex performance allows you to display "live" single camera images while tape recording full-field pictures from all cameras in your system. Then select any camera full screen or an auto-formatted multi-camera display of all cameras on playback. Use vMax™ to maximize image performance with high resolution cameras. The RV1004a also features a second output for a "Call" monitor.

Our proprietary Dynamic Time Division prioritizes recording from cameras in your system that are "seeing" the most motion content. This automatically provides you with the closest to real-time, highest resolution recording possible today and assures you of detailed event documentation.

With the RV1004a, installation and security management has never been easier. During operation, vSync™ automatically chooses the optimal camera switch rate based on a timing signal from your VCR. Intuitive, on-screen menus and push-button controls make installation and operation a breeze. Remote panel accessories let you conveniently control remote multiplexers and alarm response from one master location.

The RV1004a simplex multiplexer... picture processing technology that makes multi-picture recording economical and simple.

## FEATURES

**Record Up to 4 Cameras Using only One VCR**  
Realize significant cash savings by eliminating multiple VCRs from your CCTV systems.

**Simplex Display Live Single Camera Images While Full-Field Recording All System Cameras**

You are assured of obtaining high-resolution tape documentation from all cameras in your system. Play back in full screen for detailed documentation, or auto format display all cameras in your system for event analysis. View any "live" single camera in your system at full screen without interfering with tape record-function.

### Dynamic Time Division

Sophisticated digital algorithms detect which cameras in your system are "seeing" the most motion and then records and displays them more often. This automatically assures you of the closest to real-time playback from cameras witnessing any event.

**512 x 464 Pixel Matrix and 256 Shades of Gray**  
High-resolution display and exceptional grayscale differentiation provide you with excellent suspect and/or inventory identification and event documentation.

### Complete Alarm Capability

Detects and responds to mechanical alarms (contact closure) and video loss. The RV1004a will automatically switch to the camera in your system that covers the alarmed area and sends near real-time video to your VCR.

**Compatible with Standard Time-Lapse VCRs**  
With vSync™ the RV1004a automatically synchronizes record speed with VCRs that have a switch pulse output.

**Main Monitor Display/Tape Overlays Include Date, Time, 10-Character Camera Titles and Video-Loss Indication**

Allows you to quickly identify date, time and location of any live or recorded event. Video-loss indication allows quicker trouble shooting.

### Power-Loss Protection on Programmable Features

Protects you from loss of set-up parameters often associated with power outages.

### On-Screen Set-Up Menus and Front Panel Push-Button Operation

Allows you to quickly optimize, customize or update set-up parameters to suit your changing security needs. Typical start-up setup in under five minutes. Intuitive push-button operation for easy use and guard training.

## TECHNICAL SPECIFICATIONS

### • Video Standard

EIA: 525 lines, 60 fields/second  
CCIR: 625 lines, 50 fields/second

### • Video Inputs

4 looping: 1.0 V p-p composite, individually selectable 75 ohms or High-Z, BNC

### • Monitor Outputs

2: 1.0 V p-p, composite, 75 ohms, BNC

### • VCR Input

1.0 V p-p, composite, 75 ohms, BNC

### • VCR Output

1.0 V p-p, composite, 75 ohms, BNC

### • Digital Memory

512 x 464 pixels full screen  
8-bit Luma, 256 shades of gray

### • Alarm Inputs

4: dry contact closure

### • Alarm Output

Normally Open or Closed contacts, 2A @ 30 VDC or 1A @ 120 VAC, resistive

### • Alarm I/O Connector

DB37S (includes DB37P mating connector)

### • Alarm Duration

Software programmable 2-999 seconds, 4-second default

### • Alarm Hold Input

+5 to +15 VDC or TTL Active High

### • Remote Panel (Optional)

Controls up to 16 multiplexers via RS-232, RJ11 In and Out

### • Operating Power

Center positive, 2.1MM jack, 12 VDC, 1.5A, 18 watts, separate AC power supply included

### • Unit Weight

9 lbs. (4.1 kg.)

### • Shipping Weight

11 lbs. (5.0 kg.)

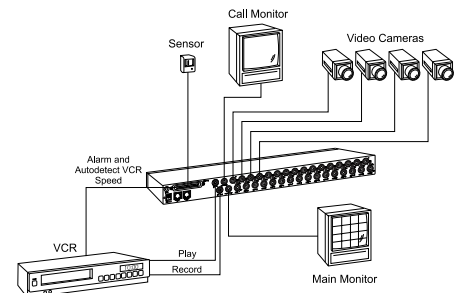
### • Dimensions

1.75 in. H x 17 in. W x 12.25 in. D  
(44mm x 432mm x 311mm)

### • Ambient Temperature

40° to 104° F (5° to 40° C)

## SYSTEM DIAGRAM



## ORDER INFORMATION

RV1004a EIA version  
RV1004a-1 CCIR version



Specifications subject to improvement or change without notice.

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