



RAVS™ - Industrial Series I16-240 Technical Specifications

GENERAL FEATURES

SAVS™ proprietary software compression, file format and encryption
Windows 2000 Pro Operating System
Highest recording capacity in the industry
120GB standard HDD, up to 1080GB
16 camera inputs
1 standard audio input, configurable to 8
Two-way audio (optional)
Modem (optional)
10/100 Mbps Ethernet
704 x 480, 704 x 240, 352 x 240 image
240 fps total recording frame rate, configurable to divide across 16 channels
240 fps total live view frame rate, (optional 480 fps), configurable to divide across 16 channels
Advanced programmable motion detection
VIP overlay (optional)
Analog TV output
4 sensor inputs
4 alarm outputs
Pan/Tilt/Zoom control
Password protection
Still image save with watermark authentication
Still image print capability
Fully integrated one-button backup to:
• CD-RW standard
• Floppy standard
• DVD-RW (optional)
SAVS™ or MPEG-2 backup format
TCP/IP or PSTN modem remote network
Up to 64 remote connections
Remote transmission (live view, playback, file copy, audio)
Remote control (Pan/Tilt/Zoom, aux devices, alarm)
System failure handling (auto rebooting with file recovery)
Dimensions: 17" x 20" x 7"
Switch selectable, auto protection power supply (100-127/200-240 VAC)
Pentium 2.6GHz CPU (minimum)
256MB RAM, configurable to 512MB
Mouse and keyboard
1024 x 768 monitor resolution
32 bit color
NTSC/PAL support
Multiple language support (optional)
Tool tips
Electronic manual

MONITORING - LIVE VIEW & RECORDING

1, 4, 9, 16 multi-camera display modes
Full-screen display
Adjustable multi-screen switching (1 sec to 60 sec intervals)
Viewing without recording capability
Hidden camera mode (recording without viewing)
Image quality adjustment (adjustable for individual cameras)
Record on motion detection
Up to 8 different motion detection zones
Programmable motion detection sensitivity
Fully programmable scheduled recording (1-hour increments; daily, weekly, monthly, or date)
Sensor-based recording
Motion alarm
Camera input detection
Camera image adjustment (brightness, contrast, chroma, hue)
Daylight savings time adjustment
Estimated recording period (progress bar shows percentage of overall disk usage)

SEARCH & PLAYBACK

1, 4, 9, 16 multi-camera display modes
Synchronized multi-screen playback
Full-function playback (play, rewind, fast-forward)
Random access for search
Search filters for playback (date & time, camera, sensor, point-of sale data)
Magnifying glass zoom
Image enhancement (brightness, contrast, gray, low pass, high pass, edge enhancement)
Playback with image zoom/image enhancement
Still image print capability
Live data backup to network drive
Offsite data archiving
Still image save with watermark authentication
Multiple still image export
SAVS™ or MPEG-2 backup format
Simultaneous local, remote and archive video viewing

REMOTE SURVEILLANCE

SAVS™ Server software
SAVS™ Client software (Windows 2000, XP)
SAVS™ PDA software (Windows CE)
SAVS™ Smartphone software (2002)
TCP/IP or PSTN modem remote network
Up to 64 connections

Remote transmission (live view, playback, file-copy, audio)
Remote control (Pan/Tilt/Zoom, aux devices, alarm)
High-speed transmission
Unlimited connection time
User log with search filters for remote Access

SENSORS & ALARMS

4 sensor inputs (optional; dry contact N/C, N/O)
4 alarm outputs (optional; relay contact 3A 120VAC or 3A 24VDC)
Software selectable sensor input type
Adjustable alarm hold time (1-60 sec)
Single screen mode for sensed camera
Motion detection alarm
Video loss alarm
Sensor input indicator
System beep for sensor input

EVENT LOG & SEARCH

Logs
• Sensor event
• Recording start/stop
• Date & time change
• Password change
• Settings change
• System power on/off
• System power Recovery
• HDD failure, reboot,
• Remote access users
Unlimited number of events stored
Event search filter (date & time, event, remote user)
Sensor event playback
Search filter for sensor event playback (date & time, camera)
Full or multi-screen sensor event playback

SECURITY & MAINTENANCE

SAVS™ image file encryption
Auto rebooting after power failure
Auto recovery of system files
Auto recovery of data files
Support for UPS backup battery
Programmable watchdog (to reboot 10 seconds to 5 minutes after halt or lockup)
Passwords
• System access
• Set-Up access (administrator)
• Remote access