



## RAVS™ - Industrial Series I16-120 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 16  
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