Ikegami

SDR-G8000

Digital VDO, 8 Channel Video Recorder - Windows 2000 version -

Features

- **Proprietary SMICT (Super Motion Image Compression Technology) with 1400:1 video compression provides for the smallest compressed file sizes for high resolution image reproduction, and thus providing the user with "all-hard disk" recording featuring the longest recording times when compared to other technologies using MPEG, JPEG, Wavelet, H.242/243 etc.**
- **All hard disk recording that may record video for months onto reliable Ikegami Genius designed hard disk arrays.**
- **No degradation over time of recorded data as well as immediate access to pre-recorded video without human intervention.**
- **Password protected, multi-level: Supervisor, Administrator, Operator, Remote User. Built-in Video.**

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Features

- Authentication for court admissibility purposes.
- Unparalleled zoom video enhancement capabilities.
- Easy to use "make a clip", "take a snapshot" operator review mode.
- Built-in 16xRW-CD for archiving of close to a days' video from 16 cameras at 2.5fps.
- Built-in Glide-point mouse for system set-up and local system operation.
- NTSC, PAL compatible.
- Variable frame rates per 4 inputs per video card.
- Features "field upgradeable" addition of 2 extra removable hard drives for added storage capability. *Need to change wire configuration.
- Built-in USB port for connection to storage devices.
- Built-in Video Motion detector for alarm marking, increasing recorded frame rate, as well as remote signal of alarm conditions.
- Features 1 channel of audio recording, audible hi-temp and fan fail alarm.
- Front mounted, accessible, washable air filter.
- The system may be used as a stand-alone recording device with a VGA monitor and keyboard connected to the recorder.
- The system with all 4, 4-channel Video capture cards installed, and all 16 cameras connected to the system will record Video from these 16 cameras at between 2.5 and 3 fps at 220 Horizontal TV lines at 320 x 240 tile size format onto a single factory installed 75 GB drive for between 30 and 60 days, more if there is less activity within the field of view of the cameras. Traditionally, other systems using other standard compression technologies would record Video from the same number of cameras at a lesser frame refresh rate as well as lower resolution for only about 48 hours instead of one month as with Digital VDO.
- File sizes are dynamically changing based on background and foreground high frequency algorithmic calculations, providing a changing Video bandwidth that also makes PSTN telephone line transmission a reality without sacrificing either on resolution or frame refresh rates. Typically using a PSTN connection with a 56KB modem, 4 cameras may be viewed at 2 fps each in a quad mode down a traditional phone line with a 56KB modem at each end with 56 KB data transfer rate available.
- The system may be accessed once started by entering a valid password. Once entered, system parameters may be adjusted to account for lesser number of cameras connected to each Video capture card and thus increasing frame refresh rates on a per card basis, changes to resolution and Video sensitivity, assignment of passwords, camera and system descriptions, alarm functions, setting up 4 Video motion detection zones per camera for alarm transmission/alarm marking/frame rate increase, etc.
- Once the Video threshold of the defaulted 500 MB of spare overhead space in the standard 75 GB hard drive is achieved, the system will rewrite the oldest stored Video with the latest current hour. To satisfy needs in other countries whereby a maximum of 31 days Video archival is allowed by local regulation, the user may change this Video recording threshold accordingly, but not below 500MB
- It is suggested that all the Video be stored onto the recorders hard drive, or additional hard drives, for the period that is required by the client, example, 2 month, 4 months etc., and that files are transferred for scenes of interest or alarm onto the recorder's RW-CD.

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Specifications

Video Inputs	4 BNC Video Inputs per card, NTSC or PAL, 4 cards per recorder Maximum, total 16 cameras
Compression Type	Proprietary SMICT (Super Motion Image Compression), background/foreground compression of changes
Maximum Resolution	NTSC: 320 x 240 size, 220 HTVI-Lines, adjustable, PAL: 352 x 288, 260 H- TV Lines, adjustable
Average Single Frame File Size	10 Bytes -2,500 Bytes (2.5KB)
Multi-Screen Display	Mix/Match, Live, Playback, Alarms, in groups of 4 cameras, mix of recorders/sites
Recording Speed	SDR-G8000-4/-8/-12/-16 2-15 fps
Live Monitoring Frame Rates	1 camera 15 fps, 4-16 cameras 3-15 fps adjustable per card in groups of 4 cameras, ex 1 cam 15 fps, 12 cams 3.5 fps in 1 recorder
Recording Device	Internal 75 GB removable hard disk drive with cooling, max 3 internal HDD's
Recording Duration	16 cameras at 2 fps, 30 ~ 90 DAYS depending on motion Longer recording times may be achieved in areas where there is < than 24 hr/day activity
System Configuration	PIII-866 MHz with 256 MB RAM, internal mouse, 300-Watt power supply, 32 MB video RAM, 300 Watt, 90-240VAC, 50/60Hz universal auto-switching power supply, 32 MB video card, 3 USB ports, 16X8X40X RW-CD drive, 2 external RS-232 port, 56 K Modem RJ-11, 10/100 Base T LAN card RJ-45, VGA out, Windows 2000
Video Authentication	Part of SMICT compression algorithm
System Start-Up	Automatic on Power Up
Recording Modes	Continuous (recommended) or by alarm, or internal motion detection area, selectable camera. Selectable modes per camera, per 4 channel input card, with alarm marking or pre-post alarm
Recording Auto Scan for Alarms	Alarm zooms in live view without affecting recording
Sensitivity/ Image Quality Settings	16 settings per 4-camera card
Database Information/ Retrieve	Camera Name, Site Name, Site Address, Alarm description, Alarm Log, Video Log
Built-in Audio Recording	Uses 24 kbps ADPCM format w/ built-in sound card
Internal Motion Detector	4 zones per camera, alarms may be marked or transmitted to Remote operator review station

Hardware Specifications

Dimensions	Standard 19" rack, 3 U Height, 47 lbs approx. shipping weight
Power Input	100/110/120/230/240 VAC, +/- 10%, 50-60 Hz, Voltage Auto-sensing, 300 Watts
Temperature Range	Operating- Temperature: 0 ~ + 50 deg °C., Storage- Temperature: -20 ~ +70 °C

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Local or Remote Monitoring Functions

Multi-Tasking System Operation	Recorder used as a stand-alone device views single and groups of 4 cameras: live, playback & alarms Stand-alone recorder using Digital VDO Network Agent software may call up any recorder "Quadplex" Operation, views live, recorded, and *alarms simultaneously on any number of review stations.
PC Camera "Snapshot" feature	May capture single snapshots of live, recording and playback images, stored as ". bmp"- flies
Playback speeds	1/10, 1/8, 1/6, 1/4, 1/2, 1X, 2X, 4X, 6X, 8X, 10X
Video "Clip" Feature	Allows operator to make video clips of incidents of interest that may be archived/emailed
Password Protection	3 Levels: Supervisor, Local User, and Remote User.
On-Screen-diagnostic Messages	System status, Start time/end time, Current Time, Camera Name, Bandwidth, HDD Space
H.D.D. Operation	System overwrites first in first out; H.D.D. Full Alarm may be set
Alarm /System LED	Power, recording (X4), H-Disk operating (X4), H-Disk Power (X4), Temperature Alarm (X2)
Alarm Log Information	Recorded Files, Alarm Time, Camera Name, Site/Board Name

Video Transmission Information

Bandwidth	3 bps ~ 17 kbps per frame per second per camera

Optional Equipment

SDR-U4B	4 channel card for sales to client needing to increase number of camera inputs of existing systems
SDR-75GBHDCS	Additional 75GB hard disk unit with removable cooling rack
SDR-75GBHD	Additional 75GB hard disk unit without removable cooling rack
IK-L5CDS	15” 1024 x 768 TFT LCD Display

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