Stand alone Remote Surveillance Video and Audio Transmitter

Introduction

NetEye Gold is a family of products that offer the most cost-effective solution for remote alarm verification requirements. Video and Audio are transmitted through regular analog telephone lines automatically upon alarm activation or on demand, by calling to a site with the help of a PC with a standard modem.

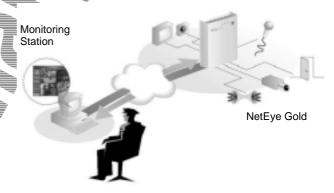
Video and Audio streams from the remote locations can be viewed and heard at a remote PC using the Video Shield Monitoring Station application, a part of the innovative Video Shield product (detailed information exists at http://www.vdomain.com). The product consists of a remote unit that includes all the video and audio acquisition, compression and transmission modules as well as alarm trigger inputs and dry contact outputs.

NetEye Gold is a fully stand-alone computer optimized for Video and Audio remote surveillance and observation. The **NetEye Gold** incorporates state-of-the-art technologies together with a powerful multimedia processor. The product is powered by an AC wall adapter and an optional backup battery.

- Supports up to 8 cameras, 8 alarm triggers and 8 external devices. Easy and on the fly peripheral management is available using the remote software.
- ☐ 2 Video outputs. Each one of the 8 cameras can be connected independently to 2 outputs. The first output is a reserved digital output. The second output can be used for viewing sequenced cameras on an external monitor, without interfering with the video transmission process.
- ☐ Internal 8x1 Audio matrix. Each one of the 8 audio inputs can be connected to the internal audio processing module. These inputs can also be all mixed together.
- ── VideoShield Monitoring Station: Works with our field-proven, feature rich application today used worldwide with our PC based VideoShield product. Mmonitor cameras video and audio, retrieve alarm snapshots, records movies, maintain debriefing information of unlimited multiple sites and much more features. Work with the same user-friendly interfaces with PC based and Stand-alone based protected sites.

Method of Operation

The video and audio input signals are digitized by the video and audio decoders, and then transferred to the multimedia processor. Taking advantages of the processor real-time multimedia-processing engine, the source image is smoothly scaled down to a size that matches the common requirements of the users. The two digital streams are compressed in real-time and sent over the communication link to a remote observation system.



The processor also decompresses received audio stream from the remote station, and plays it to the speaker output.

Arbitrary remote requests for snapshots can be processed concurrently. The processor can perform still compression on the digitized video input, and send it to the observation site, without interfering the running process of the video and audio stream transmission.

Monitoring and control of the general purpose I/O for alarm detection, relays control, camera switching and audio mixing, is also performed concurrently.

The grabbed video stream can also be recorded to a file while the video stream is displayed on the Windows desktop area at the remote site. Snapshots are also recorded in event files, all handled graphically and displayed to the user in a friendly manner.



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Modes of operation

Disarm Monitoring station can dial for

> distant monitoring of any camera view. Relays activation. Remote

setup and updating.

Arm Automatic pre and post alarm

> video captures on alarm trigger. Automatic call on alarm. Up to 4 telephone numbers. Also accepts

incoming calls.

Video

Streaming video QCIF- 176x144 CIF- 352x288 image size

Frame rate QCIF Up to 20 FPS (for 56K modem) CIF more than 10 FPS

Video inputs Up to 8 composite video inputs

using BNC connectors

Composite video (CVBS) Input signal

75 Ohm or High-Z (Selectable) Input impedance

Video standard EIA/CCIR, NTSC and PAL, B/W

and Color

1 BNC connector for displaying Video output

digital video generated by the processing unit (reserved for

future use).

Video output 1 BNC connector for software-

controlled video pass-through, pass through

cycling all the 8-video inputs.

Audio

Audio quality Same as telephone quality Communication Full duplex digital stream

Audio inputs Up to 8 RCA connectors for

software controlled audio-in. selectable out of any of the 8

inputs or all mixed.

Input signal Base band Input impedance Line level

Audio output 1 RCA connector, line level (1V

Peak to Peak).

Communication

Modem device Internal PCMCIA 56K included in

> the package. Also supports various external modems through RS232 port such as the Siemens M20 GSM Terminal.

Line interface RJ11

Terminal Block General Purpose I/O

Inputs 8 inputs, isolated by an opto-

coupler, can be used for alarm

triggering

Outputs 8 software controlled relays, dry

contact.

Control Panel Non-isolated input for Control Arm/Disarm

Panel ARM/DISARM signal,

pulse driven.

Internal Optional Expansion Modules

PCMCIA slots 2 Type-2 PCMCIA connectors

used for connecting a PCMCIA

expansion Boards.

RS 232/485 2 Standard DB-9 female

> connectors. The external port can be configured to support

RS485.

Optional backup

battery

Backup Battery connection, can be used with LiO, NiCd, or NiMH

rechargeable batterries

Miscellaneous

Real-time clock On-board real-time clocks for

> internal clock management and time stamping of alarm events.

Watch Dog Automatic crash recovery circuit.

Test switch Diagnostics switch

Factory default Reset to factory default switch

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Monitoring Station Requirements

Minimum system requirements are as follows:

CPU Pentium II 230Mhz or

higher.

RAM 32 Mega bytes

recommended

VGA adapter with at least **Graphic Adapter**

16 bit color depth

Display resolution 800x600, 16 bit colors

depth minimum.

Sound card Standard Full Duplex

Windows sound card.

Windows compatible Modem

modem

Operating systems Windows 95, Windows 98

Windows NT 4.0 or

Windows 2000

