SONY®

Bring your analogue cameras
back up to speed

IPELA

INTEGRATED VISUAL COMMUNICATION

SNT-V704
Video Network Station

www.sonybiz.net/networkvideo

IPELA

Imagine being connected to remote business locations with a reality that makes it seem as if you are in the same room. Imagine high resolution so clear that even the subtlest facial expressions are communicated. "IPELA" will bring a reality that has never before been available. "IPELA" connects you to operational maneuverability more sophisticated than ever before. Its visual recognition, distinction and video adjustment capabilities go beyond ordinary visual monitoring systems to support your business objectives. "IPELA" connects you to the technology. With an easy-to-use, intuitive graphical interface, for example, there will be no stress involved when using these systems. "IPELA" aims at the utmost in usability.

SNT-V704

The SNT-V704 is a compact, high-performance Video Network Station that allows users to remotely monitor and control analogue cameras over a TCP/IP network. The unit accepts up to four analogue video inputs providing outstanding flexibility for your IP-based monitoring systems. Supporting both MPEG-4 video and JPEG compressed images at a high-refresh rate of 25 fps, the SNT-V704 offers you the option to choose high video throughput over your network with MPEG-4 or high-quality still images with JPEG. USB support for additional storage, a bi-directional audio function, plus a number of other convenient features such as alarm, image transfer and network security functions enables scalable and effective monitoring operations.If converting existing analogue cameras to an IP-based monitoring system is your need, the SNT-V704 is your answer.

FEATURES

■ Analogue Camera Monitoring/Control Via Network

The SNT-V704 Video Network Station supports TCP/IP protocol, enabling images from up to four analogue cameras to be remotely monitored and the cameras to be controlled over LANs (Local Area Networks) and WANs (Wide Area Networks). Equipped with a built-in web server, the SNT-V704 allows users to monitor live images and to adjust settings of connected cameras via a PC running the Microsoft® Internet Explorer® web browser; no additional software is required. A variety of display patterns and viewer window sizes are available. While up to 50 users can simultaneously monitor camera images.

■ MPEG-4/JPEG Support

Both MPEG-4 and JPEG are supported by the SNT-V704. Users have the option of selecting bandwidth-efficient MPEG-4 or industry-standard JPEG compression. The high performance SNT-V704 provides independent streaming of data from the analogue ports at up to 25 fps, VGA (640 x 480) image size, for each port, greatly enhancing the capability of your IP monitoring system.

■ Bi-Directional Audio Function

The SNT-V704 is equipped with an external mic input that can be used to connect a microphone to the unit so that audio can be monitored from a remote PC. The unit also has an audio line output for active speakers, enabling users to make an announcement from the remote PC, significantly expanding the possibilities for remote monitoring applications.

■ Analogue Camera Monitoring/Control via Network

■ USB Port for External Data Storage

Data storage capacity can be increased with either an external HDD (Hard Disk Drive) or USB flash memory device. Both MPEG-4 and JPEG compressed images can be recorded to the external storage device and viewed from a PC[1]. Periodic recording is possible and pre-/post-alarm images can also be recorded.

*1 Viewing MPEG-4 files requires the supplied application software.

■ Alarm Function

The SNT-V704 is equipped with a built-in, activity-detection function that can be set to generate an alarm through its alarm-output ports. Up to two detection areas can be set for each camera. In addition, with a sensor-input port that can receive a trigger from an external sensor and a built-in 32-MB buffer, the SNT-V704 can store hundreds of pre-alarm and post-alarm still images at the time an alarm is triggered – whether from the activity-detection function, the alarm-input port, or both. Pre-/post-alarm images can then be transferred to an FTP server or recorded to an external storage device. If desired, the image acquired at the time of an alarm event can also be sent to pre-designated e-mail addresses.

■ Serial Interface (RS-232C/485/422)

Using the SNT-V704 serial interface, camera Pan/Tilt/Zoom (PTZ) control and limited camera setting adjustments can be made[2].

*2 Contact your local Sony sales office for a list of cameras that can be controlled.

■ Network Security Feature

User access to video cameras via the SNT-V704 can be limited by IP filtering. Up to ten different groups can be established by defining an IP address for each group. Additionally, user names and passwords can be assigned to allow four levels of access.

■ Dynamic Masking Function

Up to two areas rectangular in shape within each camera image can be masked. Even if a camera pans, tilts, or zooms, the masked area will remain concealed.

■ Other Features

"TOUR" FEATURE
Allows a user to preset up to five scanning patterns with up to 16 positions in each scan.

"AREA SETTING" FEATURE
Allows the administrator to crop an area within an image, which is particularly useful when you wish to monitor a specific area within that image.
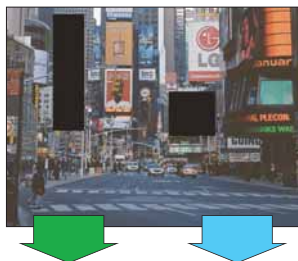
COMPACT AND LIGHTWEIGHT DESIGN
Compact and light weight, the SNT-V704 is ideal for installation in small spaces. Of course, rack mounting is also an option.

EASY SETUP
The SNT-V704 is easy to set up with the intuitive setup menu.
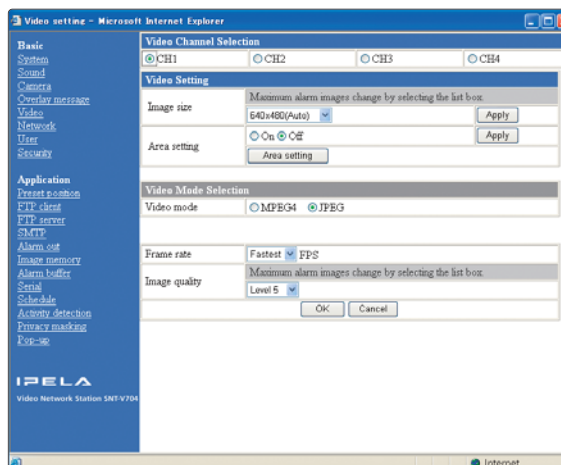
■ Dynamic Masking Function

Pan/Tilt   Zoom

■ Setup Menu

SPECIFICATIONS

ANALOGUE VIDEO INTERFACE

Video input	Analogue composite (BNC x 4),1.0 Vp-p, 75 Ω, unbalanced, sync negative, Auto sensor for NTSC or PAL
Video ouput	Analogue composite (BNC x 4),1.0 Vp-p, 75 Ω, unbalanced,sync negative (loop-through)

AUDIO

Audio compression	G.711 (64Kb/s)
Mic in	Mini-jack (Monaural) Supports Plug-in power system (5.0 V DC)
Line out	Mini-jack (Monaural x 2ch) Maximum output level 1.1 Vrms
Line in	Mini-jack (Monaural x 2ch) Maximum output level 1.1 Vrms

SYSTEM/NETWORK

CPU	64-bit RISC processor
RAM	128 MB (including 32 MB alarm buffer)
Flash memory	32 MB
Image size (JPEG/MPEG-4)	720 x 576, 640 x 480, 320 x 240
Compression	JPEG/MPEG-4
Compression ratio	Variable in*
Frame rate (JPEG/MPEG-4)	Max. 25 fps x 4ch (640 x 480)
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP (server/client), SMTP, DHCP, DNS, NTP, SNMP (MIB-2)
Number of clients	Max. 50

INTERFACE

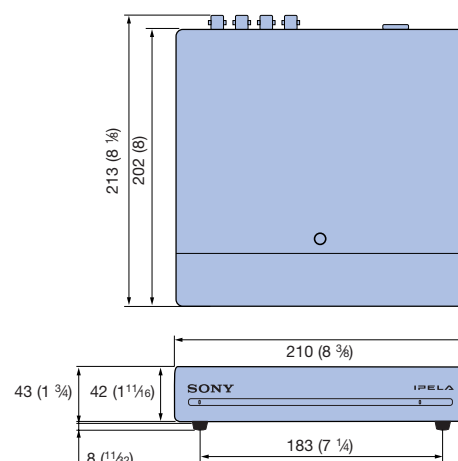|	
Ethernet	100Base-TX/10Base-T (RJ-45)
Sensor input	4 (3.3 to 24 V device supported, photocoupler inputs are electrically isolated from the unit)
Alarm output	4 (24 V DC or less, 1A, mechanical relay outputs are electrically isolated from the unit)
Serial interface	RS-232C/485/422 (for camera control)
USB Port	USB 2.0 (for use with USB mass storage class devices only)

GENERAL

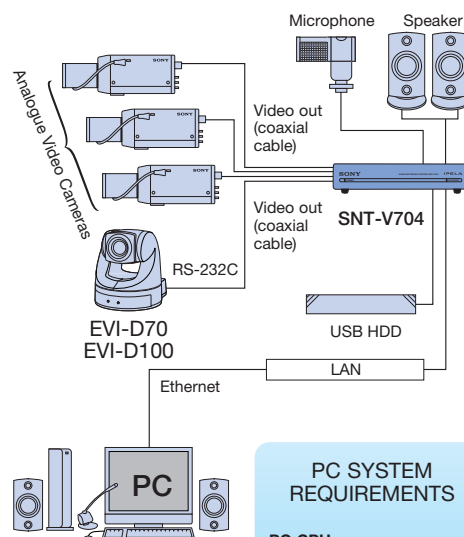|	
Mass	Approx. 1.2 kg (2 lb 10 oz)
Dimensions(W/H/D)	210 x 42 x 202 mm (8 ⅜ x 1 ¹¹⁄₁₆ x 8 inches)
Power requirements	DC 12 V (AC adapter included)
Power consumption	18 W
Operating temperature	-10°C to 40°C (14°F to 122°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Operating humidity	20 to 80 %, Non-condensing
Storage humidity	20 to 95 %, Non-condensing
Supplied accessories	CD-ROM (setup program and User's Guide) (1), I/O receptacle (2), AC adaptor, AC cord, Installation manual (1)

*   The compression ratio is based on an image of 24 bits per picture element
    (8 bits for each R, G and B).

Rear Panel

DIMENSIONS
Unit: mm (inches)

213 (8 ⅜)
202 (8)

43 (1 ¾) 42 (1¹¹⁄₁₆)

210 (8 ⅜)

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8 (¹¹⁄₃₂)   183 (7 ¼)

SYSTEM CONFIGURATION

Microphone   Speaker

Analogue Video Cameras

Video out (coaxial cable)

Video out (coaxial cable)

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SNT-V704

RS-232C

USB HDD

EVI-D70
EVI-D100

LAN

Ethernet

PC

PC SYSTEM REQUIREMENTS

PC CPU
Pentium IV, 2 GHz or faster (Pentium IV, 3 GHz or faster recommended)

RAM
256 MB or more (512 MB or more recommended)
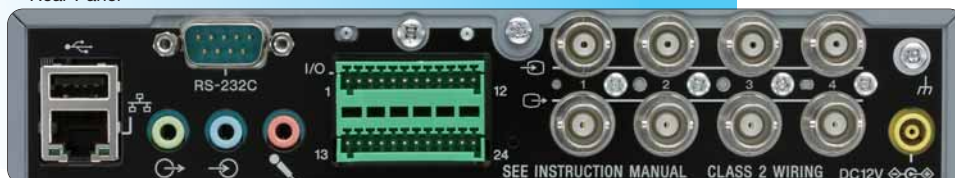
Display size
1024 x 768, True Colour or greater

OS
Windows 2000/XP

Browser
Internet Explorer Ver. 5.5 or 6.0