NVS-300VS

Compact Intelligent Video Analysis System

Features

- Intel® Celeron® J1900 Quad Core 2.0 GHz SoC
- DDR3L 1333MHz supports up to 8GB
- Supports 1 x Realtek GbE
- 4 x PoE ports to support IP camera
- 1 x removable 2.5" SATA HDD bay and 1 x mSATA slot
- Supports dual independent displays: VGA and HDMI
- 4 x dry contact inputs and 2 x relay outputs
- 1 x serial port (RS-232/422/485)
- 1 x USB 3.0 and 2 x USB 2.0

WebAccess/IVS

Introduction

NVS-300VS provides a perfect video surveillance platform for diversified applications in fields such as retail, entertainment, and casinos. It also comes pre-installed with several free bundled intelligent video analysis software applications that can make your surveillance system even more intelligent. NVS-300VS x86 architecture system combines the functions of a high performance Network Video Recorder with a Power-over-Ethernet (PoE) switch in one system. It not only supports up to 4 x PoE ports for IP cameras, but its compact enclosure and removable 2.5" HDD bay with lock is ideal for all kinds of security applications. Advantech's Quality Assurance, and Configure To Order Services, provide the best reliability for 24/7 operations. The advanced thermal design, and easy to operate user interface make NVS-300VS the ideal PC-based surveillance solution for a wide range of applications.

Specifications

Model	Part Number	NVS-300VS
Processor System	CPU	Intel J1900
	Max. Speed	2.0 GHz (Quad core)
	L2 Cache	2 MB
	BIOS	AMI 64 Mbit SPI
Memory	Technology	Dual Channel DDR3L 1066/1333 MHz SDRAM
	Max. Capacity	Build in 4GB (Max. 8GB)
	Socket	2 x 204-pin SO-DIMM (Non-ECC)
Graphics	Controller	Intel gen 7 graphics engine and media decode engine; CPU frequency: 688 MHz
	VGA	Up to SXGA 1920 x 1200 @ 60 MHz
	HDMI	Up to HDMI rev1.4a (1920 x 1080p @ 60 Hz)
Ethernet	Interface	10/100/1000 Mbps
	Controller	Gbe LAN: Realtek 8111E
	Connector	1 x RJ-45
SATA	Max Data Transfer Rate	300 MB/s
	Channel	2 (SATA1 support 2.5" HDD; SATA2 support mSATA)
Rear I/O	VGA	1
	HDMI	1
	Ethernet	1
	USB 2.0	2
	USB3.0	1
	Audio	Mic in; Line out
	Serial Ports	1 (RS-232/422/485 by jumper setting)
	DIO	4 in; 2 out
	PoE ports	4 (support IEEE 8.02.3af/at; total 80W shared by 4 ports)
Storage	2.5" HDD Bay	1 x removable 2.5" SATA bay
	mSATA	Build-in 32G mSATA
Camera Support	Video Encoding	H.264
	Maximum Frame Rate	30fps per channel
	Camera Inputs	Up to 4 channels D1/120FPS or 2 channels 1080P/60FPS
Power Requirement	Power Input Voltage	12V for system ; 54V for PoE functionality (optional)
	Power type	Adapter
Mechanical	Mounting	Wall mounting (optional)
	Dimension	252 x 179.5 x 50 mm (iron front); 252 x 184 x 50 mm (aluminum front)
Environment	Operating Temperature	0 to 40° C
	Storage Temperature	(-20 to 70° C)
	Relative Humidity	20% to 90 % RH

WebAccess/IVS Function Description

Function	Specification	Description
Monitoring	Status display	▪ Displays status and lists events of system login/logout, lost video, cameras status, web and remote connection, storage space, backup, sensors, and DO status
	e-Map	▪ e-map layout shows the locations of video cameras, sensors and alarm devices, allowing you to control them and link actions to the surveillance system simultaneously; also provides a free tool for e-map editing
	Event log displaying	▪ Real time display for event listings and automatic refresh of video events in ViewLog
	Screen Split	▪ Full screen, 1, 4, 9, 10,13, 16 Sequencer, (Able to change time interval)
	Camera layout	▪ Assign name and adjustable font to each camera
	Quality adjustment	▪ Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback.
Recording	Resolutions	▪ Selectable recording resolutions (Depends on the capture card and IP camera selected)
	Compression format	▪ H.264
	Recording modes	▪ Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording
	Recording Quality	▪ Adjustable recording quality
	Recording Frame	▪ Adjustable recording frames of each camera and event
	Pre & Post Alarm Recording	▪ Adjust pre-alarm and post-alarm recording time (Pre-alarm recording: 10 seconds, post-alarm recording: 100 seconds)
	Record file length	▪ Adjustable file length for record searching segment
Search & Playback	Playback Speed	▪ Single frame, 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x,16x, fast forward and rewind
	Playback Mode	▪ Can show up to 4 cameras' playback images simultaneously
	Search Mode	▪ Allows image searching by date, time, camera, and event. ▪ Calendar and time segment for day and time search. ▪ Selectable event time, event type, and camera IDs for event search
	Smart Search	▪ Able to search archives for incidents. Smart search list
	Image Transfer	▪ Able to save image as BMP, JPG and AVI format. ▪ Selectable day and time for video saving or using bookmark time record list directly.
	Bookmark	▪ Stores many bookmarks to facilitate searching.
Data Storage	Recording Time	▪ Recording length varies depending on recording quality, resolution, mode and activity ▪ Auto continuous recording-- oldest recorded data will automatically be overwritten when hard drive is full
	Backup	▪ Local: HDD/CD-RW/DVD-RW selectable/External USB HDD/CD-RW/DVD-RW ▪ Backup mode: Auto (schedulable) and Manual to backup video file
	Storage Path	▪ Adjust each storage path of each camera and reserve size. ▪ Setup each storage path to automatically delete the oldest file records
Alarm Notification	Event Action Plan	▪ Flexible, multiple event action plan. Able to define multiple actions taken for event source. ▪ Event source: motion detected, sensor triggered, video signal breaks, login failed, system abnormal and backup disk full etc. ▪ Event action: DO output, PTZ Control, e-mail sending, SMS notify, video file record, snapshots, phone/mobiles notification, warning sounds, video group play and specific program execute etc.
	E-mail and Phone notification	▪ E-mail notification with attached recording file or snapshot image of any event triggered ▪ E-mail and phone notification on multi event source. (with voice modem option)
	PTZ Activation	▪ Supports alarm setup with PTZ preset location.
	Sensor and DO	▪ Adjustable sensor, DO layout, schedulable
Network Control	IE Remote Control	▪ View live video, event list, PTZ control, and do remote recording, remote playback, remote setting, e-map function and remote snapshot through IE browser ▪ Supports 1, 4, 9, 10,13, 16 screen split
Operation	User Authority	▪ Multi-level password protection and unlimited user accounts for logins and passwords.
	Authority setting	▪ Allows authority settings of each user to each camera (local and remote monitor, playback, PTZ control, DO and e-map control, network connecting user numbers, with time limits, print and save function, control, etc.)
	PTZ Control	▪ Embedded PTZ control panel: Pan & Tilt, zoom control and preset function. ▪ Supports most popular PTZ protocol
	Dynamic IP support	▪ Built-in Web server. Supports dynamic IP.
	Language	▪ English, Traditional Chinese, Simplified Chinese
	Other	▪ Windows lockup ▪ Auto DVR login ▪ Auto reboot

Plus Package Benefits

WebAccess/IVS SDK available for 3rd party CMS or AP software integration

SDK

WebAccess/IVS
Intelligent Video Analytics (IVA)

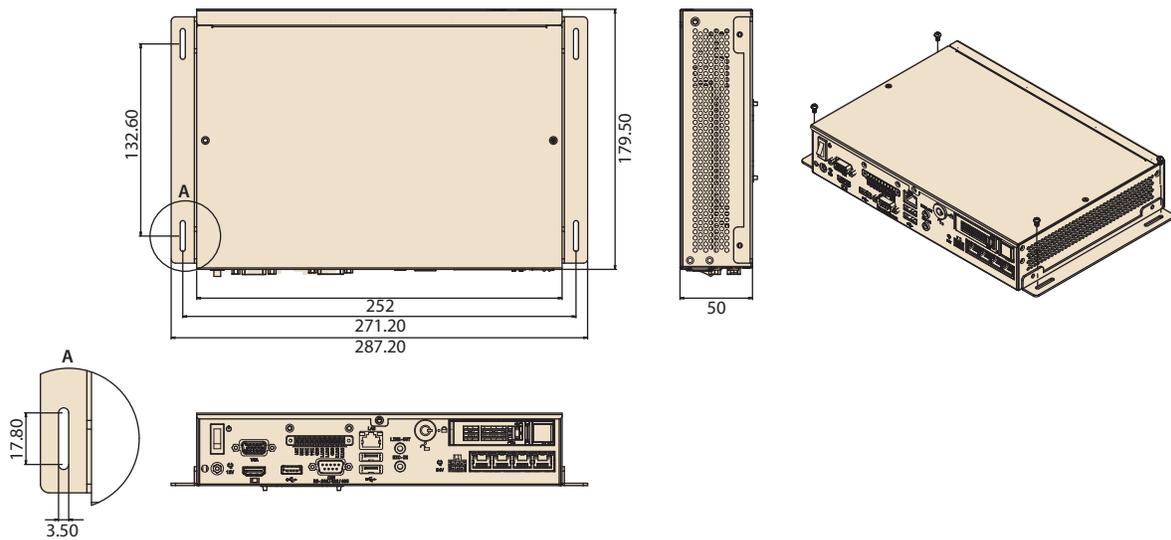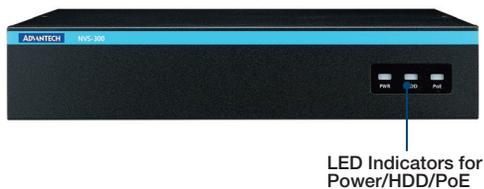Object Counting   People Counting   Camera Tamper   Optical Self Diagnostic   Motion Detection   Forbidden Zone   Demographic
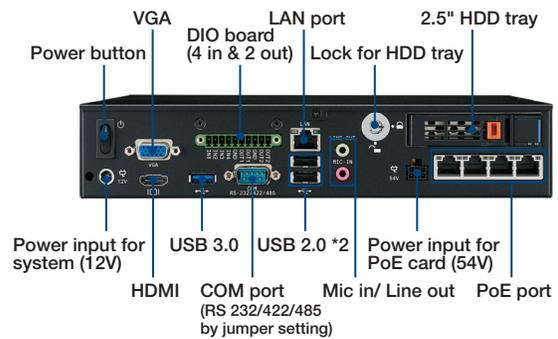
Dimensions

Unit: mm

Wall Mount

132.60

179.50

50

A

252
271.20
287.20

A

17.80

3.50

Front I/O

LED Indicators for
Power/HDD/PoE

Rear I/O

VGA

LAN port

2.5" HDD tray

Power button

DIO board
(4 in & 2 out)

Lock for HDD tray

Power input for
system (12V)

USB 3.0

USB 2.0 *2

Power input for
PoE card (54V)

HDMI

COM port
(RS 232/422/485
by jumper setting)

Mic in/ Line out

PoE port

Ordering Information

Part Number	Description
NVS-300VS-00A1E	Intelligent Video Analysis system with RAM 4G-1333, OS (WES7), 32G MSATA

Note:
1. 54V POE adapter is optional
2. Hard Drive is not included

Optional Accessories

Part Number	Description
1702002600 Power	cable 3-pin 180cm, USA type
1702031801 Power	cable 3-pin 180cm, UK type
1702002506 Power	cable 3-pin 180cm, EU type
1700000237 Power	cable 3-pin 180cm, PSE type
XDVS-FSP090AWAN2	54V POE adapter