DATA SHEET



Intel® NUC for Smart DSS: Transforming Digital Security Surveillance



Intel® NUC for digital security and surveillance (DSS) solution combines the power and reliability of Intel® Solid State Drives (Intel® SSD) with advanced computer vision software from Sighthound* (www.sighthound.com) for an affordable video analytics system powerful enough to mimic the human eye. Smart DSS is easy to install and affordable for consumers, as well as small businesses.

The Intel NUC for Smart DSS Package includes:

- Intel NUC NUC6i5SYH mini PC
- Sighthound Video* 3.0.3 software
- VIVOTEK* FD8169A cameras (2)

Capitalizing on the Benefits of Intel® NUC

The emerging mini PC form factor of Intel NUC delivers strong performance for advanced computer analytics in a sub-0.65L size, making it a superior choice for network video recording (NVR) over conventional PC or proprietary solutions. Intel NUC with advanced computer vision from Sighthound* offers the following benefits:

- Power in a discrete size. Leading-edge computer vision with a tiny, space-saving, and easy to hide form factor combines NVR and security workstation.
- Versatility. The Intel NUC can be easily tailored to specific deployment needs.
- Cost effective. Open standards and a broad ecosystem of developers and partners provide competitive, cost-effective solutions for specific implementations.

• Better together with solid state drives (SSD). Intel NUC is paired with Intel SSDs for seamless performance and enhanced capabilities. You'll get a system that works even better together.

Sighthound Video with Computer Vision Software

Sighthound Video, running on Intel NUC, is artificial intelligence for your home or business. Unlike motion-sensor cameras that alert users to any motion event, including trees moving in the breeze and other common triggers, Sighthound can differentiate between people and objects it sees, alerting users only when true security threats arise. Sighthound Video features include:

- Easy setup. Install rapidly with software that automatically locates cameras.
- Alerts. Set rules that trigger mobile alerts, emails, or custom scripts.
 Using artificial intelligence, computer vision can determine what is happening and significantly reduce the number of false alerts.
- Multi-cam support. Sighthound Video supports nearly every brand of IP camera and webcam.
- **Custom zones.** Draw boxes around specific areas to capture people entering rooms, driveways, and other locations while masking areas to ignore.
- Connect apps and devices. Create powerful connections to a variety of apps and devices with IFTTT service.
- Remote viewing. Monitor a live view of the premises, review clips of events, and receive alerts on smartphones and mobile devices.
- Custom schedules. Define when cameras turn on and off, or delay recording by camera or zone.
- Video search. Find only the moments that matter with advanced search capabilities.
- **Set rules.** Customize the video source to determine what is analyzed, zones, and types of alerts with the Rule Editor.
- ONVIF* support. Easily detect and configure compatible cameras with ONVIF support.
- HD video. Match video clips to any camera resolution.

Step into the Future Today

Get started with Intel NUC for smart DSS. Contact your local dealer or distributor, or visit http://www.simplynuc.com/dss.

Intel NUC for Smart DSS Package

Table 1. Solution System Specifications

ITEM	DESCRIPTION	NOTES	
Processor	6th generation Intel® Core™ i5-6260U processor	1.9 GHz Turbo, Dual Core, 4 MB Cache, 15W TDP	
Memory	Dual-channel DDR4 SODIMMs	1.2V, 2133 MHz, 8GB	
Operating System	Microsoft Windows* 10 IoT Enterprise	KVM4NFV Real-Time Kernel version: 4.1.10-rt10	
Graphics	Intel® Iris™ Graphics 540		
	1x full-size HDM* 1.4b		
	1x Mini DisplayPort* 1.2		
Peripheral connectivity	Up to 7.1 surround audio via HDMI* and Mini DisplayPort*	Headphone/Microphone jack on the front panel	
Storage	Intel m.2 128GB SSD	SDXC slot with UHS-1 support on the	
	Toshiba* 1TB 2.5in HDD	side	
Networking	Intel® 10/100/1000Mbps network connection	ODL* Beryllium	
	Intel® Wireless-AC 8260 M.2 soldered-down, wireless antennas (IEEE 802.11ac, Bluetooth* 4.1, Intel® Wireless Display 6.0)		
Enclosure	Silver with black top and diamond cut around the top		
	Aluminum and plastic		
	Dimensions: 115mm x 111mm x 48mm		
Power adapter	19V, 65W wall-mount AC-DC power adapter		
	Multi-country plugs (IEC types A/C/G/1)		
Additional features	3-year limited warranty		
	Support for customized branded lids		
	Low-acoustics active cooling design		
	Kensington* lock with base security		
	12-19V DC Power Input		
Included in the box	Intel® NUC Kit NUC6i5SYH integrated in enclosure		
	VESA* mount bracket and mounting hole support		
	• 19V, 65W wall-mount AC-DC power adapter with multi-country AC plugs		
	Processor badge		
	VIVOTEK* FD8169A Cameras (2)		
	SIghthound Surveillance Kit Quick Start guide		
	VIVOTEK* AW-FET-050A-065 POE Switch		
	Ethernet cable is required to connect cameras to NUC (NOT INCLUDED)		

Table 2. Sighthound Video* 3.0.3 Specification

ITEM	DESCRIPTION	NOTES
Camera support	2 camera license included – can be upgraded to more cameras	
HD support	Supports native camera resolution	
ONVIF support	Detect and configure compatible cameras	
Remote access	Mobilize surveillance	Available on iOS*, Android*, and via web browser
IFTTT support	Connection to a variety of apps and devices	
Cloud support	Automatically upload important clips to a variety of cloud storage services	
External commands	Run scripts or applications for custom actions	

Table 3. VIVOTEK* FD8169A Cameras Specifications

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SYSTEM	
СРИ	Multimedia SoC (System on a Chip)
Flash	128MB
RAM	256MB
FEATURES	
Image Sensor	1/2.9 Progressive CMOS
Max Resolution	1920x1080 (2MP)
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F1.8
Field of View	105° (Horizontal) 60° (Vertical) 109° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Enhanced
Day/Night	Removable IR-cut filter for day & night function
Min. Illumination	0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)
Pan/Tilt/Zoom	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built-in)
IR Illuminators	Built-in IR illuminators, effective up to 20 meters with Smart IR LED*8
On-board Storage	MicroSD/SDHC/SDXC card slot Seamless Recording
VIDEO	
Compression	H.264 & MJPEG
Max. Frame Rate	30 fps @ 1920x1080 in both compression modes
Max. Streams	4 simultaneous streams
S/N Ratio	68.5 dB
Dynamic Range	69.4 dB
Video Streaming	Adjustable resolution, quality and bitrate Smart Stream II
Image Streaming	Time stamp, text overlay, flip & mirror configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks Scheduled profile settings, 3D noise reduction, video rotation, defog
Video Motion Detection	Five-window video motion detection
NETWORK	
Users	Live viewing for up to 10 clients
Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/ RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, SSL, TLS
Interface	10 Base-T/100 BaseTX Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Supported, specification available at www.onvif.org
ALARM AND EVENTS	
Alarm Triggers	Motion detection, manual trigger, periodical trigger, system boot, recording notification, camera tampering detection
Alarm Events	Event notification using HTTP, SMTP, FTP and NAS server, SD Card File upload via HTTP, SMTP, FTP, NAS server and SD card
GENERAL	
Connectors	RJ-45 for Network/PoE connection
LED Indicator	System power and status indicator
Power Input	IEEE 802.3af PoE Class 0
Power Consumption	Max: 8.5 W
Dimensions	Ø: 129 mm x 94 mm
Weight	Net: 416.4 g
Safety Certifications	CE, LVD, FCC Class B, VCCI, C-Tick
Operation Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F) Working Temperature: -10°C ~ 50°C (14°F ~ 122°F)
Humidity	90%
Warranty	24 months



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