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§ For more information go to www.intel.com/nuc and www.intel.com/computestick

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Digital Security and Surveillance (DSS)

Central Management, Archive and Analytics
2020 TAM: ~5Mu/year

Network Infrastructure

Cameras
2020 TAM: ~350Mu/year

Video & Data Analytics Software & Services

Video Gateways Servers & Recorders
'20 TAM: >20Mu/year

Security & Surveillance Public Safety

Traffic Control ADAS

Smart Home & Building

Manufacturing Robotics

Retail Analytics

Healthcare

Infrastructure

MOVE TO HIGH DEFINITION CAMERAS

INCREASED CONCERNS OVER PUBLIC SAFETY

DEMAND FOR EDGE BASED ANALYTICS

Multiple sources: IHS, Markets & Markets, Strategy Analytics, Intel research

Rising Tide of DSS Data

859 PETABYTES
Global Daily Data for Video
Surveillance in 2017[1]

124MU
Network Security
Cameras
Forecasted for 2018[2]

46M
Network Security Cameras
Shipped in 2013[2]

MARKET DRIVERS

Increasing value and ROI of IP Video
Global growth in security & surveillance
Move from SD analog to HD digital
Adoption in Smart – Home – Building – Factory – Retail – Healthcare, and other markets
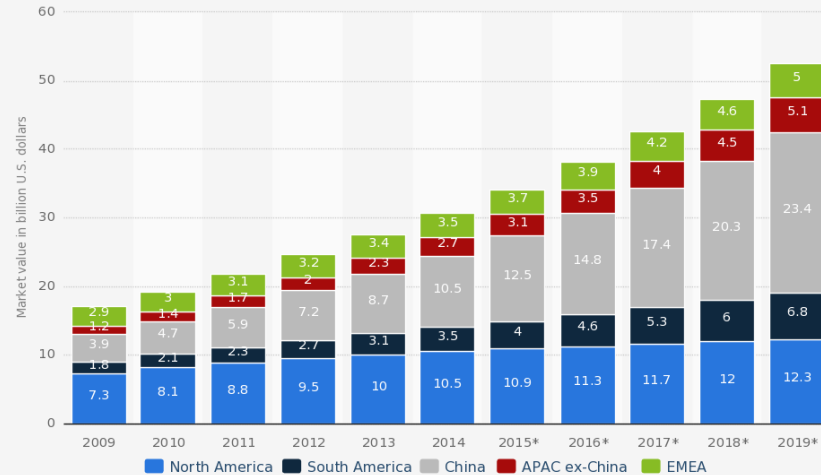
TECHNOLOGY DRIVERS

Acceleration of open standard HW & SW
Video Content Analytics (Computer Vision)
Image Quality and Compression/Codecs
Network: Remote Manageability and Mobility
Cloud Services

[1]IHS Research, Enterprise and IP Storage for Video Surveillance, 2013
[2]IMS Research. World Market for Video Surveillance Equipment, May 2015
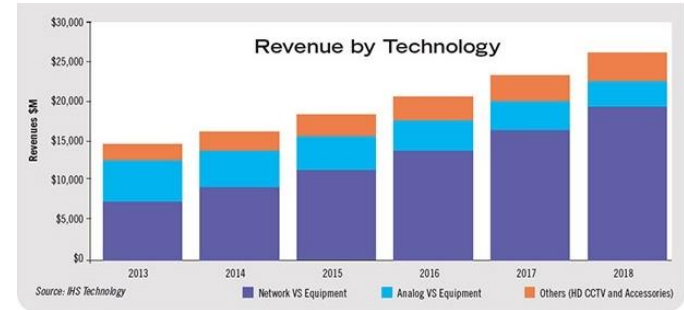
4

DSS Market Trends

Size of the global video surveillance market from 2009 to 2019 (in billion U.S. dollars), by region. Source: HKExnews © Statista 2016. Additional Information: Worldwide; Frost & Sullivan; 2009 to 2014.

Revenue by Technology. Source: IHS Technology.

- Major growth coming from Network (i.e. digital) Equipment

- IT convergence in the video surveillance industry

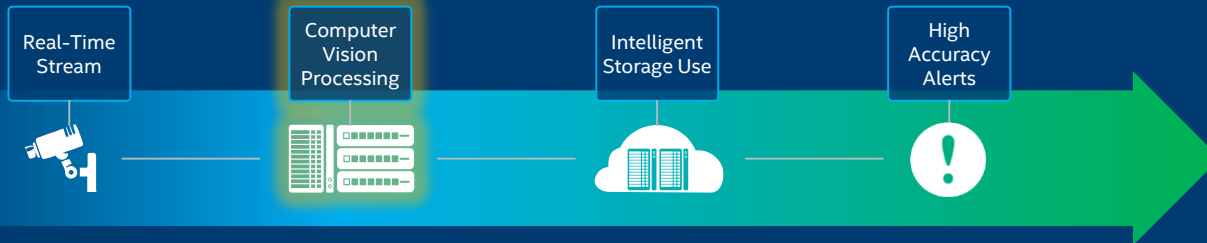- Strong rise in the market for edge based analytic

Pressing Need for Compute Power

CONVENTIONAL NETWORK VIDEO RECORDER (DUMB NVR)

Inaccurate Detection

Basic Mass Storage Operations

Excessive RAW Data

Multiple False Alerts

Basic intelligence (in-camera detection)
Numerous false alerts
Storage space abuse
Difficult to navigate through archive

PC POWERED INTELLIGENT NETWORK VIDEO RECORDER (SMART NVR)

Real-Time Stream

Computer Vision Processing

Intelligent Storage Use

High Accuracy Alerts

Advanced intelligence (computer vision)
Highly accurate people / object detection
Reduced & intelligent storage utilization
Events based archive navigation

INTEL® NUC: A PINT-SIZED POWERHOUSE

SIZE
Small footprint
or zero footprint

PERFORMANCE
Tower power

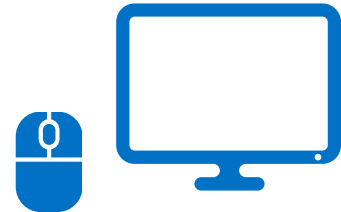**WARRANTY**
International Warranty

3 Years Warranty

ENERGY EFFICIENCY
Low power
consumption

UPGRADEABILITY
Easily increase storage
and memory

REUSABILITY
Combine with new or
existing peripherals

Refer to intel.com/nuc for more info.

Perfectly Fits Entry Size DSS Deployments

Performance for leading edge Computer Vision

Recorder (NVR) + security workstation in one

Tiny, so can be hidden discretely
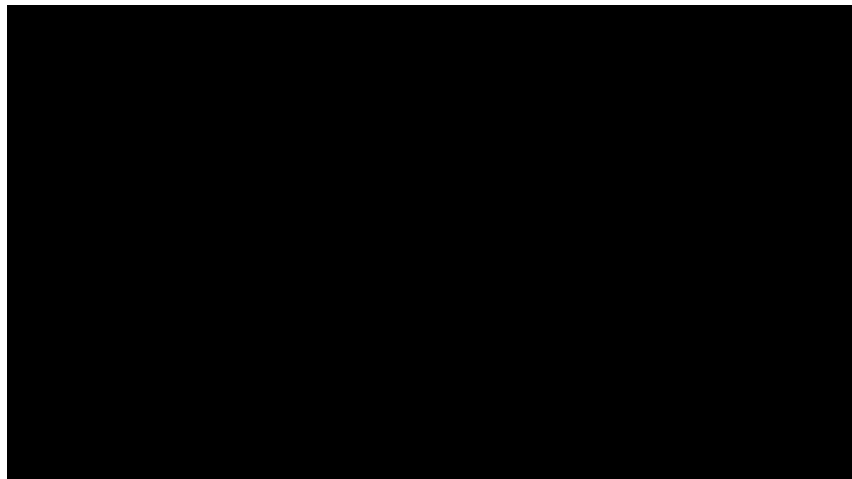
Fanless capable* (using 3rd party chassis)

Intel® vPro™ technology: security & remote manageability

Intel quality & reliability - 24/7 operation

* With 3rd party passive cooling chassis

Adding AI to Surveillance – Sighthound Video (http://bit.ly/sighthound-adding-ai)

Sighthound Video – Intelligent Monitoring and Alerts (http://bit.ly/sighthound-intelligent-monitoring)

Sighthound Video

Features -
- Windows software with Android and iOS remote viewing
- Constantly monitors all connected cameras (IP or webcam)
- Uses computer vision AI to distinguish between people and other moving objects
- Cuts down on false alerts dramatically
- First launched 2010, updated state-of-the-art algorithms
- 500,000 users worldwide, active user group, forums and support

Sighthound Video – Intelligent Surveillance

Features

Easy Set Up
Software that finds your cameras automatically. You can go from install to running in under two minutes. Learn More

Smarter by design.
Computer vision in the software determines what's happening so you don't get hundreds of false alerts.

Video Search
Search through weeks of footage in seconds. Find only the moments that matter. Learn More

Rule Editor
With the Rule Editor, customize the video source, what gets analyzed, zones, and the types of alerts you'll receive. Learn More

IFTTT
Sighthound has partnered with IFTTT, a service that lets you create powerful connections. Learn More

ONVIF
ONVIF support for easy detection and configuration of compatible cameras. Learn More

Remote Viewing
iPhone and Android apps to monitor a live view of your home, show you clips of events, and provide you with alerts.

Alerts
Set rules that trigger mobile alerts, e-mails or custom scripts. Click the alert to see what happened. Learn More

HD Video
Match your video clips to any resolution your camera supports.

Multi-Cam Support
Sighthound supports almost every brand of IP camera and webcam out there. Don't get locked into one brand.

Custom Zones
Draw boxes around doorways to capture people entering a room, create thresholds on driveways to trigger people who cross, and mask areas of the scene to ignore.

Custom Schedules
Have upstairs cameras go off at night, yard cameras off on weekends and delay recording until you've left the house.

No Monthly Fees
Avoid cloud storage fees. Automatically upload only clips you care about to the free storage available at Google Drive, Dropbox or your preferred cloud service.

Sighthound
Intelligence in Motion

Sighthound Video – Intelligent Surveillance

- AI works like the human brain
  - Learns the scene
  - Watches the camera feeds
  - Decides if what it sees necessitates an alert
- Intelligence doesn't come cheap
  - Computer vision is computationally expensive
  - Requires CPU and fast disk access
- The ideal AI solution for surveillance will pack a lot of CPU power into a small, easy to deploy footprint

A Perfect Match

High accuracy people & object detection

A pint-sized powerhouse for leading edge computer vision

STATE-OF-THE-ART COMPUTER VISION SOLUTION

QUESTIONS?

Revenue & Margin Opportunities

Hardware, Software, Solution Deployment

Security & Cloud Services Subscriptions

Upgrades, Extra Equipment, Scale

Support and Maintenance

CHASSIS ECOSYSTEM – SEE FULL CATALOG HERE

IN-WIN

LIAN-LI

CARTFT

IIYAMA

NOW MICRO

SILVERSTONE

MOREX

SENECA

TRANQUIL

ABEE

POLYWELL

G-ALANTIC

CHENBRO

CADIA NETWORKS

IMPACTICS

LOGIC SUPPLY

AKASA

STREACOM

WHY BUY THE INTEL® NUC?

- **Intel is the innovation leader** in the mini PC category offering excellence in quality, reliability, and worldwide availability with the Intel® NUC product line.

- **Support:** worldwide customer service available 24/7 and in 11 languages and three year warranty.

- **Customization:** Intel NUCs are sold as barebones kits. It is fully customizable by integrators, and ready to accept the memory, storage, and operating system of their choice.

- **Size:** Intel NUCs are markedly smaller than the competition, from 0.4 to 0.7 L

INTEL® NUC

"Skull Canyon"

NUC6i7KYK

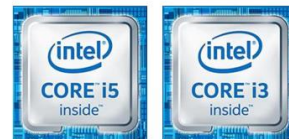|	
Processor and Graphics	6th Generation Intel® Core™ i7-6770HQ 2.6 GHz up to 3.5 GHz Turbo, Quad Core 6MB cache, 45W TDP Intel® Iris™ Pro Graphics 580, 350 MHz up to 950 MHz
RAM	Dual channel DDR4-2133+ SODIMMs, 1.2/1.35V, 32GB maximum
Connectivity	Thunderbolt™ 3 (40 Gbps) and USB 3.1 Gen2 (10 Gbps) and DisplayPort 1.2 via USB-C connector 2x front USB 3.0 (one charging), 2x rear USB 3.0, 2x internal USB 3.0 and 2x internal USB 2.0 via header Front Consumer Infrared port
Video Outputs	HDMI 2.0 (4K 60Hz) and Mini DisplayPort 1.2 (4K 60Hz) and DisplayPort 1.2 via USB-C
M.2 SSD and Flash Storage	2x M.2 22x42/80 (key M) slots for SATA3 or PCIe X4 Gen3 NVMe or AHCI SSDs SDXC slot with UHS-I support
Networking	Intel® I219-LM 10/100/1000 Mbps Ethernet Intel® Wireless-AC 8260 soldered-down, IEEE 802.11ac 2x2 + Bluetooth v4.2, internal antennas
Audio	Up to 7.1 multichannel digital audio via HDMI or DisplayPort signals 3.5mm front headset jack, 3.5mm rear speaker / TOSLINK combo jack
Enclosure	Metal and plastic with replaceable lid, Kensington lock with base security
Dimensions (mm)	211 x 116 x 28
Power Adapter	19V 120W power supply with replaceable AC cords
Internal Headers	Common I/O header with Front Panel, CEC, 2x USB2.0 signals 2x USB 3.0 header
Other Features	Microsoft Windows* 10, 8.1, 7 logo'd, compatible with various Linux distros Second plain lid included VESA mounting plate included Individual retail packaging Three-Year Warranty

Skull Canyon Ordering Codes		
Product Code	**MM#**	**Notes**
BOXNUC6i7KYK	944578	No AC cord
BOXNUC6i7KYK1	944579	US AC cord
BOXNUC6i7KYK2	944580	EU AC cord
BOXNUC6i7KYK3	944581	UK AC cord
BOXNUC6i7KYK4	944582	AU AC cord

INTEL® NUC

"Swift Canyon"

	NUC6i5SYH	NUC6i5SYK	NUC6i3SYH	NUC6i3SYK
Processor and Graphics	6th Generation Intel® Core™ i5-6260U 1.8 GHz up to 2.9 GHz Turbo, Dual Core, 4MB cache, 15W TDP Intel® Iris™ Graphics 540, 300 MHz up to 950 MHz		6th Generation Intel® Core™ i3-6100U 2.3 GHz, Dual Core, 3MB cache, 15W TDP Intel® HD Graphics 520, 300 MHz up to 1 GHz	
Dimensions (mm)	115 x 111 x 48	115 x 111 x 32	115 x 111 x 48	115 x 111 x 32
2.5" SSD/HDD Bay	9.5mm, SATA3	None	9.5mm, SATA3	None
RAM	Dual channel DDR4-2133 SODIMMs, 1.2V, 32GB maximum			
Video Outputs	Full-size HDMI 1.4b (4K 30Hz), Mini DisplayPort 1.2 (4K 60Hz)			
M.2 SSD and Flash Storage	M.2 22x42/80 (key M) slot for SATA3 or PCIe X4 Gen3 NVMe or AHCI SSD SDXC slot with UHS-I support			
Networking	Intel® I219-V 10/100/1000 Mbps Ethernet Intel® Wireless-AC 8260 soldered-down, IEEE 802.11ac 2x2 + Bluetooth v4.2, internal antennas			
Connectivity	2x front USB 3.0 (one charging), 2x rear USB 3.0, 2x internal USB 2.0 via header Front Consumer Infrared port			
Audio	Up to 7.1 multichannel digital audio via HDMI and Mini DisplayPort 3.5mm front headset jack			
Enclosure	Aluminum and plastic with replaceable lid Kensington lock with base security			
Power Delivery	12V – 19V DC input range 19V 65W wall-wart power supply with interchangeable plugs included			
Other Features	Microsoft Windows* 10, 8.1, 7 logo'd, compatible with various Linux distros VESA mounting plate included AUX_PWR internal header Individual retail packaging Three-Year Warranty			

Swift Canyon Core™ i5 Ordering Codes			Swift Canyon Core™ i3 Ordering Codes		
Product Code	MM#	Notes	Product Code	MM#	Notes
BOXNUC6i5SYH	943207	US, UK, EU, AU plugs	BOXNUC6i3SYH	943209	US, UK, EU, AU plugs
BOXNUC6i5SYHL	946874	CN, IN, BR, AR, KR plugs	BOXNUC6i3SYHL	946884	CN, IN, BR, AR, KR plugs
BOXNUC6i5SYK	943204	US, UK, EU, AU plugs	BOXNUC6i3SYK	943211	US, UK, EU, AU plugs
BOXNUC6i5SYKL	946869	CN, IN, BR, AR, KR plugs	BOXNUC6i3SYKL	946878	CN, IN, BR, AR, KR plugs