

Cyber **Smart**, Hyper Vision



2013

Intelligent Digital Security

- IP Camera Series
- NVR Series
- NVR Hardware Platform

IDS

Intelligent Digital Security

IP Camera Series

NVR Series

NVR Hardware Platform

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NVR Series

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About NEXCOM

Reliable Partner for Building the Digital Infrastructure

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the digital infrastructure. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates four global businesses, which are Multi-Media Solutions (MMS), Mobile Computing Solutions (MCS), Industrial Computing Solutions (ICS), Network and Communication Solutions (NCS), and Intelligent Digital Security (IDS). This strategic deployment

enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

In addition, the service-to-market business model gives NEXCOM core competence to build a strong world-class service network by providing customized service, global logistics, local access, and real-time support. Operating seven subsidiaries, from China, France, Germany, Italy, Japan, the United States, to the United Kingdom, NEXCOM is able to better facilitate customers' requirements as well as closely work with global partners in different regions.

Partners should also be assured that NEXCOM's Taiwan based Headquarters and subsidiary offices in China, UK and USA have obtained ISO 9001:2008 Certification.



ICS	EmbeddedPro Solutions: Embedded Computer, Single Board Computer, Computer-on-Module Panel PC: Industrial PPC, Applied PPC, Multimedia PPC, Factory PPC, Medical PPC, Industrial PPC, In-Wall PPC Industrial Fanless Controller (NISE) Point of Services Industrial Wireless Machine Automation (MA) Factory Automation (FA)
IDS	Intelligent Digital Security: IP Cam, NVR, Mobile Server Platform
MCS	Mobile Computing Solutions: Rugged Computer Devices, Rugged Mobile Computer Vehicle Telematics Computer: Car PC, Train PC
MMS	Multimedia Solutions: Digital Signage
NCS	Network and Communication Solutions: Network Security, VoIP, HPC, Telecommunication, Storage, Industrial Firewall

Corporate Mission

- An Innovative Supplier in Vertical Application Markets
- A Quality Partner in Engineering, Manufacturing, and Services

Corporate Vision

To become the industrial leader in building the digital infrastructure, NEXCOM utilizes its industry leading technology, localized customer support and worldwide logistics services. This will be achieved by

- Great Team Work
- Cooperation with trusted partners
- Growth through innovation.

Business Strategy

Aim to better support the activities of all its partners, NEXCOM divides its sales force into four dedicated business units to target rapidly expanding vertical markets. This enhances each business unit concentrating on strategic channel accounts and on repeat order business. Moreover, NEXCOM's business units have been set up to serve the requirements of key project accounts, where product ODM and project support are frequently required.

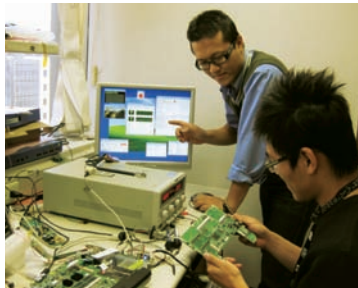
NEXCOM is working with embedded computing solution providers to envision new opportunities for growth. We'll help you deliver reliable vertical industry platform (VIP) solutions, optimized for the next wave of low power, small footprint embedded applications.

Research and Development

Speed, Quality, Innovation and One-stop Service

Over a decade ago, NEXCOM successfully launched the PEAK series of Single Board Computers onto the IPC market, and in doing so, gained a solid reputation for product quality and innovation. In subsequent years, NEXCOM has enhanced its reputation for R&D excellence with a multitude of high-end technology products, which has cemented NEXCOM as one of the industry leaders for R&D and innovation.

The mission of NEXCOM R&D team is to design exceptional products that meet the stringent requirements of today's global markets. In order to achieve this goal, we have recruited hundreds of talented engineers who have the knowledge and expertise to make NEXCOM's products stand out in this highly competitive market.



In 2012, NEXCOM R&D will develop solutions within the following categories, fanless computers, Panel PCs, video analytic, self-service platform, vehicle telematics computers, rugged mobile tablet computers, digital signage platform solutions, and ATCA platforms for telecommunications. The team is encouraged to "Think with New Ideas" and "Know how to make it and do it right first time". In addition, the size of NEXCOM's R&D team has been expanded to over 130 members and remains as one of core competences of the company.

Versatile Design Capabilities

- Leading industrial fanless computer
- High availability network security platform, blade, and cPCI

- Rugged tablet computer and car PC
- Ultra small footprint computer-on-module
- High speed networking
- Isolated and non-isolated power system
- Isolated and non-isolated industrial I/O
- Wide range of operating temperature

24/7 Production Line

Optimal Manufacturing Efficiency

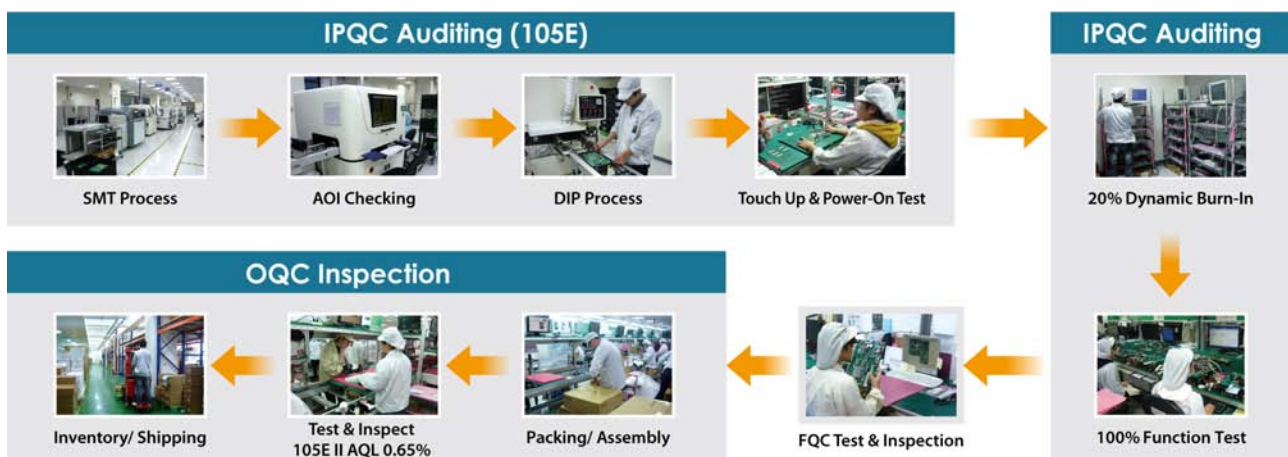
The manufacturing of delicate products requires a high-level technology, craftsmanship, standards and time-to-market efficiency. Over years continual investment in advanced manufacturing equipment and systemic training programs has enabled NEXCOM to obtain optimal manufacturing efficiency.

To fulfill the increasing market demand for NEXCOM's products, the company has opened a 24/7 production line. This investment not only furthers the quality of products, but also reduces production lead-time for all global customers.



Quality Assurance

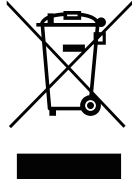
Under a strict Quality Assurance System, product design and reliability are controlled to support all critical solutions, and ensure Total Quality Assurance (TQA) implementation for all NEXCOM products and service. Furthermore, NEXCOM technical support team aims to provide feedback within 24 hours to ensure technical issues are resolved in the shortest possible time.



Closed-Loop Quality Assurance System

Green Policy

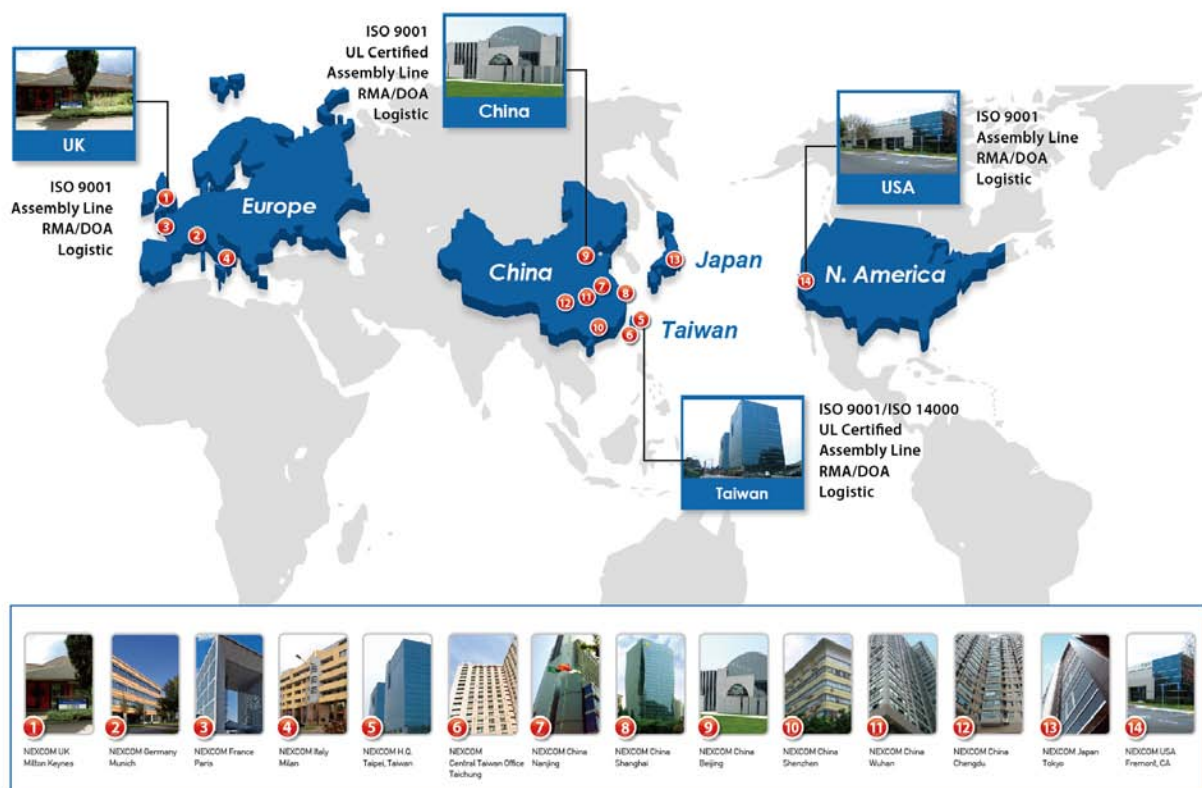
As a global citizen, NEXCOM is committed to providing green products and services, which are compliant with WEEE and RoHS legislation. NEXCOM continues to proactively work with industry peers and suppliers, to clarify standards, and identify compatible technologies and practices that help reduce hazardous substances from our products and manufacturing processes.



NEXCOM has invested heavily to establish operational infrastructures, including advanced equipment and facilities, not only at its global headquarters but also at subsidiary offices. Today, each of our service centers, with ISO 9001:2008 certification, has a purpose built assembly line, RMA/ DOA center and warehouse storage capability.

Global Fulfillment Service

Product delivery and customer support are always more effective when delivered locally. NEXCOM localizes support and provides a global customer service network to handle all aspects of global business, from presales, order taking, and system assembly to logistics. For expeditious product delivery, NEXCOM has established four regional service centers: Taiwan (for Asia), USA (for North America and South America), the United Kingdom (for Europe) and China. Therefore, NEXCOM customers benefit from quality assured product assembly and four service centers.



NEXCOM Global Service Network

Assembly Line Operation

NEXCOM offers custom-built products based on customers' specific requirements through the build-to-order services. A dedicated 24/7 assembly line and Quality Assurance System are installed in the services center to ensure exceptional production efficiency and superb product performance and reliability.



Service Pledge and Connection

As a reliable industrial computing platform provider for vertical markets, NEXCOM provides the very best products and the most expeditious service to help customers build the digital infrastructure. Comprehensive types of service are provided to promptly satisfy varying requirements. In addition to the headquarters in Taiwan, seven subsidiaries and distributors in strategic worldwide locations are at your service.



Service Types



Quotation



Project Consultant



Technical Support



Solution Alliance



RMA/DOA



Assembly/Test



Global Logistics



Customization



ODM
Original Design
Manufacturing

Your Truly Global Information Resource

www.nexcom.com

www.nexcom.com is your one-stop platform for the latest information on all NEXCOM products and services. The rejuvenated website not only contains product relevant information and data, solutions/ products demo, up-to-date news, but incorporates online downloads, publications, and technical service supports, such as RMA/DOA centre. Furthermore to localize service and support, seven NEXCOM sister websites remain to serve visitors in diverse geographical regions.



Get the Latest Updates Anytime, Anywhere

m.nexcom.com

At the end of the year 2011, NEXCOM launches its mobile site, m.nexcom.com. The site aims to cross time and space boundaries by allowing users to access the latest innovation and information of NEXCOM via smartphones. On this website, users will easily find our latest products, news, application stories, white papers, and videos. The mobile site now supports iOS and Android system. Please visit us at m.nexcom.com.

Design and Manufacturing Services (DMS)

Customized Service for Tailor-Made Solutions

NEXCOM provides cost-effective and time-to-market Design and Manufacturing Services (DMS). The DMS offers product customization from core modular designs to finished products based on customers' specifications in all kinds of industrial field. The levels of the service include manufacturing new CPU boards and system based products to fulfill customers' unique applications.

Unique DMS Features

With vast experience, the know-how, leading technology and innovative design capabilities, NEXCOM DMS incorporates the following features:

Prompt Time-to-Market



NEXCOM possesses a dedicated project management team to monitor and ensure each DMS project is delivered on schedule. Thus, a quick time-to-market solution can be offered with time-scales varying from one-three months for the design phase, with an average six month period from design to market.

Flexible Design and Manufacturing



NEXCOM possesses a complete R&D team to design and engineer the latest industrial grade products. As R&D engineers grouped into small cross-functional teams, they can develop more reliable products with flexible designs and quicker response to customers' requirements. In addition to our R&D capabilities, the state of art manufacturing facility and production lines enables NEXCOM to offer a flexible manufacturing with highly skilled factory staff.

Rigid Quality Control



NEXCOM is pledged to deliver high quality products, from design to manufacture, and safeguard against defective products by implementing a rigid Quality Assurance System. In this system, at the end of each process, NEXCOM performs various tests to ensure that the product passes the industrial standard before it enters into next stage. Finally, additional tests are performed to ensure all board and system level products function correctly. Tests include "Failure Mode and Effects Analysis", "Vibration test", "Burn-in Chambers", "Drop test", and "AC power source test".

Extensive DMS Experience



We set higher standards! NEXCOM surpasses your tailor-made product requirements with extensive DMS experiences. We are specialized in X86 architecture and have accumulated invaluable experience and know-how in real working environments. Moreover, with a superb reputation, NEXCOM has under its belt many ODM projects in diverse fields, such as gaming, medical, POS, network security, transportation, marine, blade servers, and Linux BIOS etc.

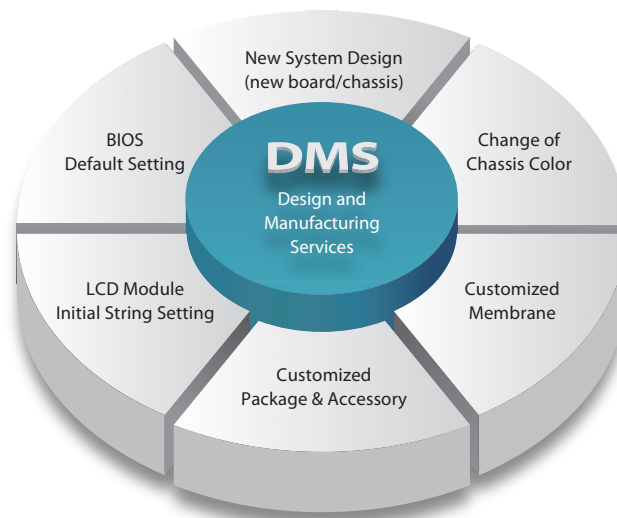
Scope of DMS Work

■ Original Design Manufacturing Service (ODMS)

NEXCOM offers a complete ODM Service starting from the brand new product design right through to the finished product. We can design products based on the customer's unique specifications and application requirements.

■ Customization to Order Service (CTOS)

NEXCOM also provides CTOS, which is a quick-to-market solution by modifying the existing products to fit your business requirements, such as BIOS setting, component change by using current PCM layout, chassis color change, and packing accessories etc.



Service of DMS

With decades of industrial computing experience, NEXCOM has the capability to provide different levels of customized service to manufacture innovative products with exceptional high quality. We can assist you to differentiate from competitors, and save significant time and efforts.

Level 1	Logo Re-brand	→ We provide the service to change the membrane to re-brand the company logo on the front panel. Customers need to provide Membrane drawing with all color pantone number. There is a service charge involved.
Level 2	Customerized Build	→ Customers can change the membrane and chassis color to re-brand the packing. NEXCOM can offer dedicated part numbers and BOM. MOQ and service charge are required.
Level 3	Manufacturing Service	→ Contract manufacturing. The service scope includes system assembly & burn-in, software loading & testing. MOQ and manufacturing service charge are required.
Level 4	New Project	→ The design of new board & system is available. NRE and quantity commitment are required.

Professional Conformal Coating Solution

Get Ruggedized with NEXCOM Cost-Effective Conformal Coating Service for Harsh Environment Protection

Prompt Time-to-Market

NEXCOM recognizes the harsh reality that many embedded systems find themselves operating in unusual hostile environments. When conformal coating is required to protect your application against substantial humidity, dust, chemicals or temperature extremes, we can help!

Cost Effective Service to Apply Coating Solution in Vertical Market Segments

In addition to the usual military and harsh industrial environments that demand conformal coating, NEXCOM expand our conformal coating to Vehicle Telematic Computing, outdoor traffic control/surveillance, and off-shore Marine applications. These applications demand embedded computing performance with increased reliability through conformal coating process.

To support a wide range of applications in vertical markets, NEXCOM has engineered a diverse range of platforms, which incorporate the latest.

"State of the Art" Conformal Coating Line

NEXCOM uses automated Conformal Coater equipment for applications that require a high level of accuracy and repeatability in moderate to high volume manufacturing environments. "State of the Art" coating line is a closed-loop robotic platform featuring optical encoder feedback on all axes.

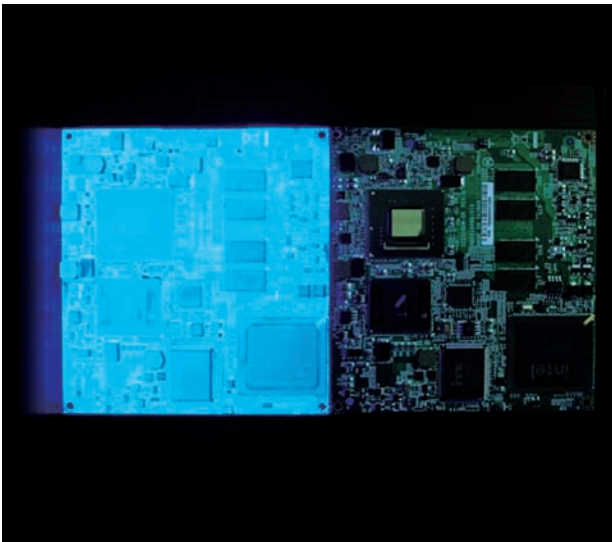
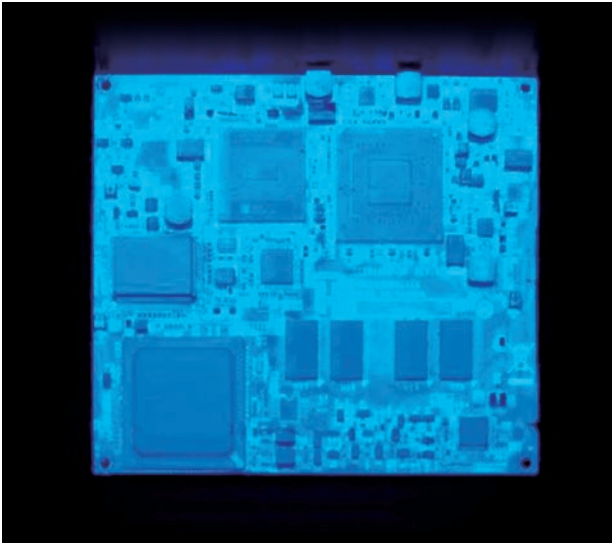
Smart Masking Technology

Our smart masking technology can pin point specific area on the PCBA for coating. The green, programmable conformal coater equipment allow user to only coat the area selected, which save labor/ material costs.



De-Flux Cleaning

To prepare a PCB for conformal coating, the circuits need to be cleaned. NEXCOM uses automatic defluxing and cleanliness testing systems. The deflux system is equipped with an automatic chemical management system that automatically doses and mixes defluxing chemicals at the turn of a keyed switch.



Real Time Cleanliness Testing

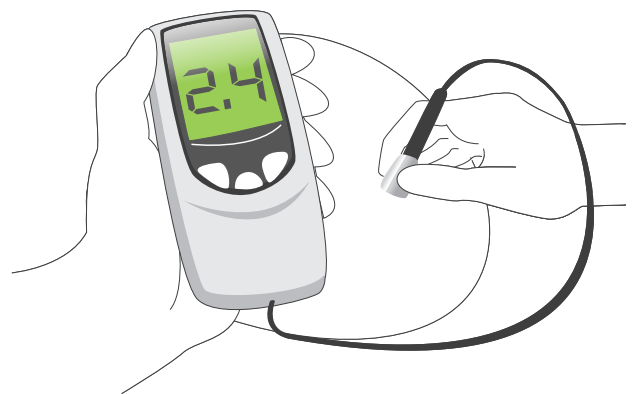
NEXCOM's deflux cleaning system is also equipped with an onboard cleanliness testing system which allows a user to program a desired cleanliness level. This assures that cleanliness levels will be consistent batch after batch.

De-Coating RMA Service

NEXCOM offer De-Coating RMA service upon request. This new service allows you to further cost down and generate higher ROI.

Quality Assurance Policy and Consistency Guarantee

Conformal coating inspection is a critical factor in determining successful coating application and long term reliability of PCBs. Using the IPC standards allows the coating operator to monitor the coating application performance. NEXCOM offers 100% manual screening by examining the PCB under white and UVA light and Thickness Gauge.



NEXCOM follows IPC-A 610, IPC-CC-830, IPC J-STD-001E regulations to generate consistent, adjustable coating thickness and cleanliness.

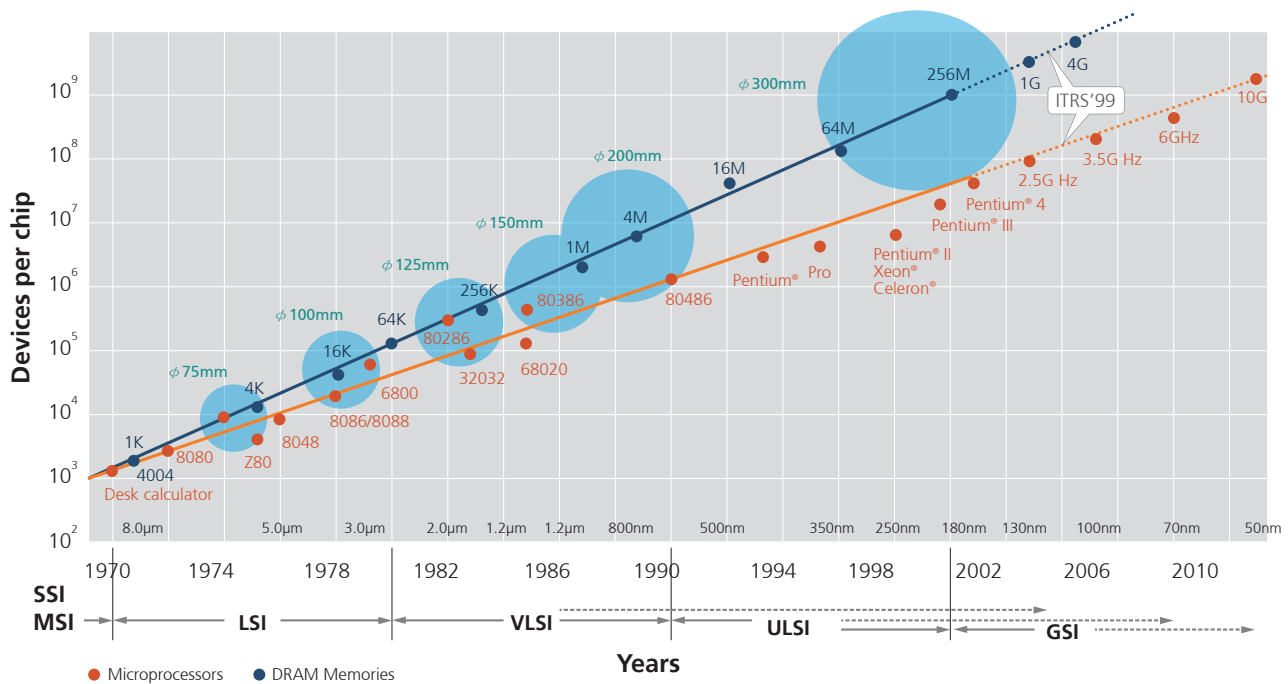
The Rise of SoC Technology

SoC is a concept that appeared in the early 1990s. SoC stands for system-on-chip, the packaging of all the necessary electronic circuits and parts for a "complete system" on a single integrated circuit. It includes on-chip memory (RAM and ROM), one or more microprocessors, DSP, peripheral interfaces, I/O logic control, data converters, and other components that comprise a complete computer system. With the technology enhancement of foundry, from the SSI, MSI, LSI, VLSI, to 025 μm , 0.18 μm , 0.13 μm process, the logic gate count may be larger than 100 millions today. We can integrate more mature and reusable IP, like digital circuit, analog circuit, digital-analog mixed-signal circuit, and on-chip programmable logic into one SoC. The trend of SoC technology is to integrate MEMS, and SiP cores together to meet the complex single chip requirements.

The advantages of SoC are compact and simple system design, lighter weight, high performance with lower power consumption, multiple functions and cost-competitive. SoC are widely adopted in computers, communications, consumer, industrial, transportation, and other products. According to the forecast, the CAGR of SoC sales is expected to grow by more than 20% still in the coming 5 years.

The SoC industry has developed rapidly over the last 20 years from producing VLSI devices that integrated a processor and a few memory and peripheral components onto a single chip to today's high-performance SoCs that incorporate hundreds of IP blocks. This progress is a consequence of Moore's Law:

"The performance of an IC, including the number components on it, doubles every 18-24 months with the same chip price ..." - Gordon Moore – 1960



The SoC is usually divided into three categories according to the implementation technology adopted: CSoC (Configurable SoC), SoPC (System-on-a-Programmable-Chip), and ASIC SoC for final mass-production.

It is a trend to integrate multiple processor IP in recent SoC design. It increases the complexity of system verification, especially when multiple software running on the processors concurrently. To build prototype on the FPGA prototype is widely adopted to verify these IP. Many IC vendors have provided well-integrated SoPC (FPGA, EPGA), which includes processor, memory, bus logic, IO logic, and

programmable logic. The Engineer can therefore verify high level software application on such platform. This solution can reduce the risk of new SoC development, offer high flexibility, and shorten the development cycle.

The SoC may adopt any kind of instruction set, Intel X86 core (e.g. NS SC2200, SiS550), MIPS core (e.g. AMD AU1500), PowerPC core (e.g. IBM PPC405), ARM 7/9/11 cores, or new ARM Cortex-M/A series.

In addition to the reusable IP modules, the most important feature of SoC is its bus architecture for the inter-connection between IP modules.

Each vendor adopt their own bus architectures, such as the AMBA bus (ARM), AXI bus (AMBA extension), EC bus (MIPS), CoreFram bus (MIPS), CoreConnect bus (IBM), Wishbone bus (Silicore). It is almost impossible to interconnect IP cores based on different bus architecture. Today, some companies devote efforts to establish a common on-chip bus architecture VSIA (Virtual Socket Interface Association). It needs an efficient routing algorithm as basis.

Demands of SoC in Intelligent Industrial Control

Some demands make the SoC widely adopted in the industrial control,

1. Higher computing power: the SOA (Service Oriented Architecture) is widely adopted. Comparing to the traditional server/client architecture, the thin device needs higher computing power.
2. Wireless communication: because ubiquitous WIFI network, GSM network, the cloud computing becomes necessary. We need a system integrating network connection capability, security protection. The SoC is the better choice.
3. Compact size: no matter how many functions integrated, smaller size is a always need. It's reasonable to choose SoC.
4. Everything portable: to realize this feature, we need lower power consumption, reliable battery support.
5. Rapid response (real-time response): most precise equipments, or critical devices, need very rapid response after data analysis. The SoC is the most reliable solution in such application.
6. Multi-cores (distributed, or pipeline) computing: in complex system, it may need individual processor (or DSP) for each application. Like a GPU is dedicated for graphic operations, graphic accelerator, video codec, a RTU for data acquisition. Finally, there are 5 processors in ST's DVD recorder, 8 processors in HDTV, more than 10 processors in a mobile handset. To integrate these processors as one SoC is a necessary solution.

NEXCOM SoC-based Platforms and Customizing Services

Since the mobile device application is becoming popular, the technology for SoC platform is enhancing fast. The performance of SoC based CPU is much higher than before and it is still with the benefits of low energy, compact size, easy to design. These features are also beneficial for industrial application. As the features of ARM based CPU, it can be designed as small form factor devices like box PC, panel PC, embedded board, vehicle computer, and even in network security appliance. The focus market can be industrial automation, POS/KIOSK, M2M and so on. NEXCOM provides the service for standard models, OEM/ODM service for system and

board products. By leveraging our strong designing experience in versatile industrial applications, we can offer the complete service for meeting customers' requirements in SoC based platform.

Features and Benefits



Low Power Consumption



Compact size form factor



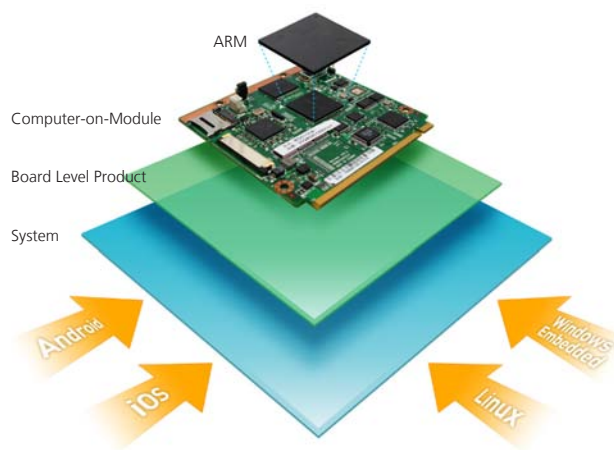
Cost Effective



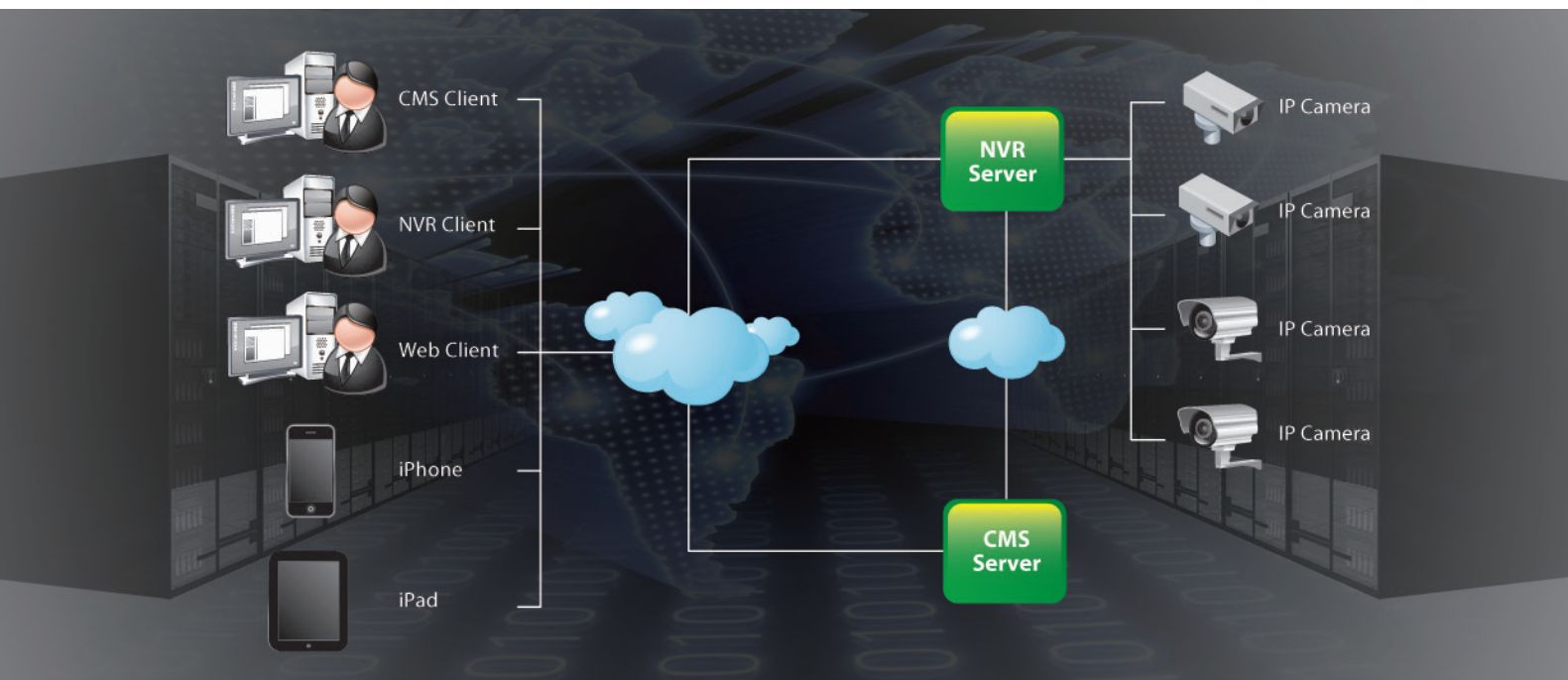
Flexible Design and Manufacturing

Application and Market Focus

- Factory Automation Controller
- Machine Automation Controller
- Data Acquisition Server
- Communication Gateway
- HMI platform for Industrial Automation
- POS/ KIOSK Application
- Hardware device for M2M application
- Digital signage appliance
- In vehicle computing appliance
- Network security appliance



Intelligent Surveillance Solutions



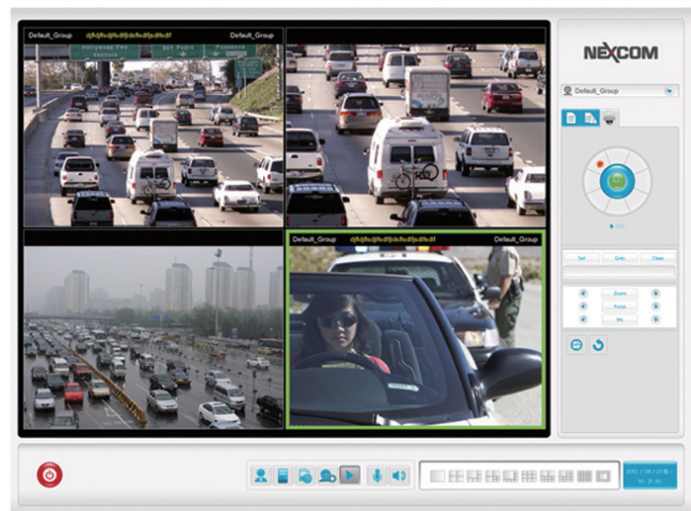
Intelligent Surveillance Software

Key Features

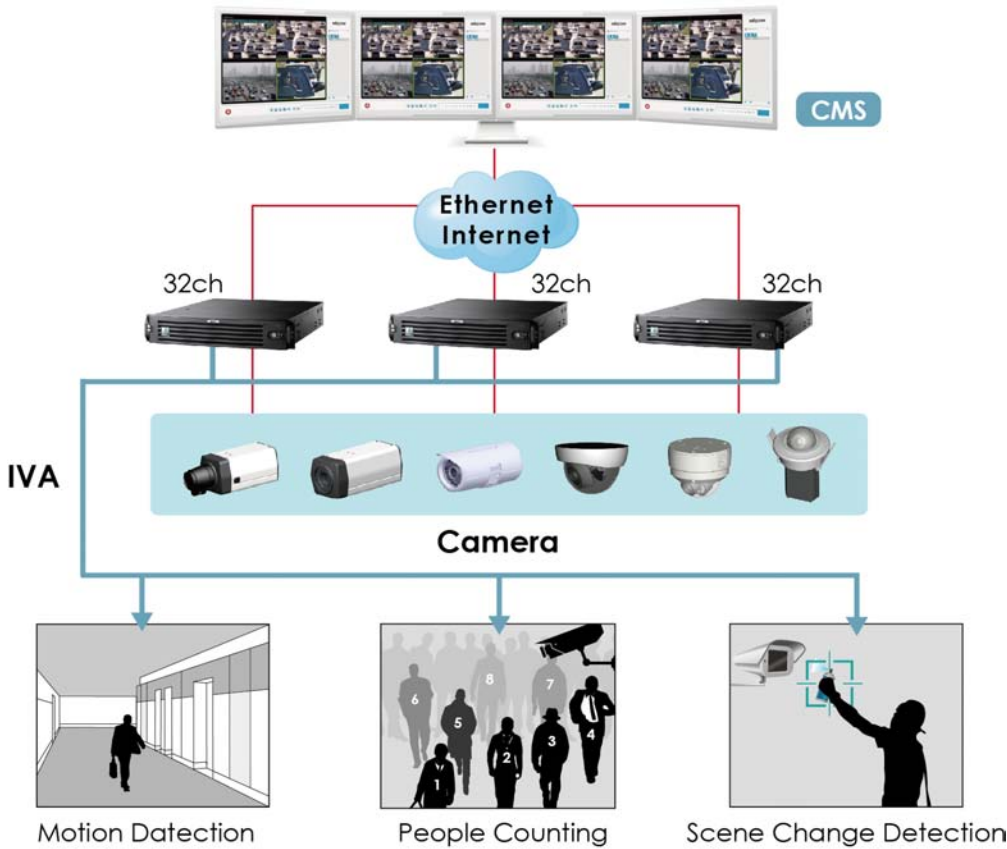
- Linux embedded OS
- Plug & Play (easy- to-operate)
- Support up to 8 channels & PoE
- Support 1080P@60FPS
- High quality H.264, MJPEG recording
- E-Map
- Pre/ Post –alarm recording
- Event notification on monitoring
- Real-time Email /IO alerts
- Scheduled Backup
- Mobile remote surveillance

Intelligent Video Surveillance

NEXCOM provides a full range of security surveillance systems, supports up to 32 IP cameras for networking surveillance, with the plug-and-play function for NEXCOM IP cameras to connect to the unit automatically.



Integrated with cutting-edge Intel technology ,Nexcom NVR implements advance intelligent video analysis (IVA) which is cable of handing multiple threads at the same time. For instance, taks such as missing object and motion detection can rapidly be performed.

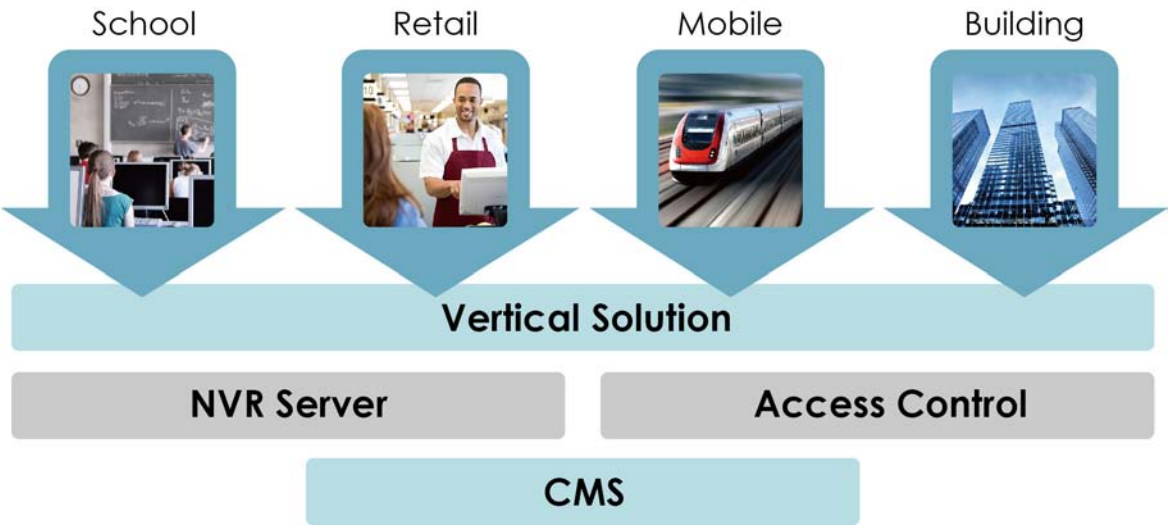


Applications




NEXCOM's complete VMS solution can be easily turned into a professional vertical market specific solution. NEXCOM understands end user application requirements and can provide flexible customization and professional services tailored toward customer specific needs. NEXCOM currently focus on following vertical market:

- Retail vertical market
- School vertical market
- Mobile vehicle vertical market
- Building automation vertical market

NEXCOM provides Ready-to-Run NVIS Solution Starter kit with free trial version of VMS upon customer's request.






IP Camera Series

Model			
	NCo 301-VHR	NCi 301-V	NCi 311-R
Image Sensor	1/3" 3M true WDR progressive scan CMOS sensor	1/3" 3M true WDR progressive scan CMOS sensor	1/3" 3M progressive scan CMOS sensor
Lens	Motorized (3-10mm, F1.4) board type	Motorized (3-10mm, F1.4) board type	varifocal (3-10mm, F1.3) board type
Iris Type	P-iris	P-iris	DC-iris
Day and Night	Yes	Yes	Yes
IR Control	Smart IR	N/A	Smart IR
ICR	Yes	Yes	Yes
WDR	Yes	Yes	Yes (DWDR)
Video Compression	H.264/ M-JPEG	H.264/ M-JPEG	H.264/ M-JPEG
Video Streaming	Triple streaming	Triple streaming	Triple streaming
	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
Video Resolution	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240
Video Quality	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
	2048 x 1536 @ 30 fps	2048 x 1536 @ 30 fps	2048 x 1536 @ 15 fps
Frame Rate	1920 x 1080 @ 60 fps	1920 x 1080 @ 60 fps	1920 x 1080 @ 30 fps
	1280 x 720 @ 60 fps	1280 x 720 @ 60 fps	1280 x 720 @ 30 fps
	720 x 576 @ 60 fps	720 x 576 @ 60 fps	720 x 576 @ 30 fps
	720 x 480 @ 60 fps	720 x 480 @ 60 fps	720 x 480 @ 30 fps
	640 x 480 @ 60 fps	640 x 480 @ 60 fps	640 x 480 @ 30 fps
	320 x 240 @ 60 fps	320 x 240 @ 60 fps	320 x 240 @ 30 fps
Audio Streaming	Two-way	Two-way	N/A
Audio Compression	G.711 8KHz/ 16bit	G.711 8KHz/ 16bit	N/A
Audio Input	Line-in	Line-in	N/A
Audio Output	Line-out	Line-out	N/A
Interface	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45
Supported Protocols	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6
Security	Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTP encryption
Audio in/ out Port	Terminal block 1 in/ 1out	Terminal block 1 in/ 1out	N/A
Video Output	Phone jack x1, composite 1.0 Vp-p, 75Ω	Phone jack x1, composite 1.0 Vp-p, 75Ω	N/A
D I/O	DIX1, DOX1	DIX1, DOX1	DIX1, DOX1
RS485	N/A	N/A	N/A
Micro SD Slot	Yes	Yes	Yes
RJ45	Yes	Yes	Yes
DC/ AC	DC 12V/ AC 24V terminal block	DC 12V/ AC 24V terminal block	DC 12V terminal block
POE	Yes/ IEEE 802.3af	Yes/ IEEE 802.3af	Yes/ IEEE 802.3af
Operating Temp	-40°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
Humidity	90% RH (no condensation)	90% RH (no condensation)	90% RH (no condensation)
Certification	CE/ FCC	CE/ FCC	CE/ FCC
Vandal Resistant	IK10	IK10	N/A
Outdoor Capable	IP67, build-in heater	N/A	N/A
Application	SDK available for application development	SDK available for application development	SDK available for application development







NCi 311	NCi 312	NCb 301	NCb 311
1/3" 3M progressive scan CMOS sensor	1/3" 3M progressive scan CMOS sensor	1/3" 3M true WDR progressive scan CMOS sensor	1/3" 3M progressive scan CMOS sensor
varifocal (3-10mm, F1.3) board type	Fixd Lens 2.8mm F 2.0 option/ 3.6 mm F1.8	Motorized (3-10mm, F1.4) board type	CS mount
DC-iris	Fix-iris	P-iris	DC-iris
Yes	Yes	Yes	Yes
N/A	N/A	N/A	N/A
N/A	N/A	Yes	Yes
Yes (DWDR)	Yes (DWDR)	Yes	Yes (DWDR)
H.264/ M-JPEG	H.264/ M-JPEG	H.264/ M-JPEG	H.264/ M-JPEG
Triple streaming	Triple streaming	Triple streaming	Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240
VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
2048 x 1536 @ 15 fps	2048 x 1536 @ 15 fps	2048 x 1536 @ 30 fps	2048 x 1536 @ 15 fps
1920 x 1080 @ 30 fps	1920 x 1080 @ 30 fps	1920 x 1080 @ 60 fps	1920 x 1080 @ 30 fps
1280 x 720 @ 30 fps	1280 x 720 @ 30 fps	1280 x 720 @ 60 fps	1280 x 720 @ 30 fps
720 x 576 @ 30 fps	720 x 576 @ 30 fps	720 x 576 @ 60 fps	720 x 576 @ 30 fps
720 x 480 @ 30 fps	720 x 480 @ 30 fps	720 x 480 @ 60 fps	720 x 480 @ 30 fps
640 x 480 @ 30 fps	640 x 480 @ 30 fps	640 x 480 @ 60 fps	640 x 480 @ 30 fps
320 x 240 @ 30 fps	320 x 240 @ 30 fps	320 x 240 @ 60 fps	320 x 240 @ 30 fps
N/A	N/A	Two-way	Two-way
N/A	N/A	G.711 8KHz/ 16bit	G.711 8KHz/ 16bit
N/A	N/A	Line-in	Line-in
N/A	N/A	Line-out	Line-out
10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45
HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6
Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTP encryption
N/A	N/A	2.5 mm phone jack x1	2.5 mm phone jack x1
N/A	N/A	BNC x1, composite 1.0 Vp-p, 75Ω	BNC x1, composite 1.0 Vp-p, 75Ω
DIX1, DOX1	DIX1, DOX1	DIX1, DOX1	DIX1, DOX1
N/A	N/A	N/A	N/A
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
DC 12V terminal block	DC 12V terminal block	DC 12V/ AC 24V terminal block	DC 12V/ AC 24V terminal block
Yes/ IEEE 802.3af	Yes/ IEEE 802.3af	Yes/ IEEE 802.3at (POE+)	Yes/ IEEE 802.3at (POE+)
0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C	0°C ~ 55°C
90% RH (no condensation)	90% RH (no condensation)	90%RH(no condensation)	90%RH(no condensation)
CE/ FCC	CE/ FCC	CE/ FCC	CE/ FCC
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
SDK available for application development	SDK available for application development	SDK available for application development	SDK available for application development





IP Camera Series

Model			
	NCr 301-VHR	NCm 301-V	NCm 301-2V
Image Sensor	1/3" 3M true WDR progressive scan CMOS sensor	1/3" 3M true WDR progressive scan CMOS sensor	1/3" 3M true WDR progressive scan CMOS sensor
Lens	Motorized (3-10mm, F1.4) board type	Fixd Lens 3.6 mm F1.8	Fixd Lens 2.8 mm F1.8
Iris Type	P-iris	Fix-iris	Fix-iris
Day and Night	Yes	Yes	Yes
IR Control	smart IR	N/A	N/A
ICR	Yes	N/A	N/A
WDR	Yes	Yes	Yes
Video Compression	H.264/ M-JPEG	H.264/ M-JPEG	H.264/ M-JPEG
Video Streaming	Triple streaming H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	Triple streaming H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3	Triple streaming H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
Video Resolution	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240	2048 x 1536 to 320 x 240
Video Quality	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps	VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
Frame Rate	2048 x 1536 @ 30 fps	2048 x 1536 @ 15 fps	2048 x 1536 @ 15 fps
	1920 x 1080 @ 60 fps	1920 x 1080 @ 30 fps	1920 x 1080 @ 30 fps
	1280 x 720 @ 60 fps	1280 x 720 @ 30 fps	1280 x 720 @ 30 fps
	720 x 576 @ 60 fps	720 x 576 @ 30 fps	720 x 576 @ 30 fps
	720 x 480 @ 60 fps	720 x 480 @ 30 fps	720 x 480 @ 30 fps
	640 x 480 @ 60 fps	640 x 480 @ 30 fps	640 x 480 @ 30 fps
	320 x 240 @ 60 fps	320 x 240 @ 30 fps	320 x 240 @ 30 fps
Audio Streaming	Two-way	N/A	N/A
Audio Compression	G.711 8KHz/ 16bit	N/A	N/A
Audio Input	Line-in	N/A	N/A
Audio Output	Line-out	N/A	N/A
Interface	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45	10/ 100/ 1000 Mbps Ethernet, RJ-45
Supported Protocols	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6	HTTP, TCP/IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/v6
Security	Multi-level passwords/ HTTP encryption	Multi-level passwords/ HTTPS encryption	Multi-level passwords/ HTTPS encryption
Audio in/ out Port	2.5 mm phone jack x1	N/A	N/A
Video Output	N/A	N/A	N/A
D I/O	DIX1, DOX1	N/A	N/A
RS485	N/A	N/A	N/A
Micro SD Slot	Yes	Yes	Yes
RJ45	Yes	Yes	Yes
DC/ AC	DC 12V/AC 24V terminal block	N/A	N/A
PoE	Yes/ IEEE 802.3at (POE+)	Yes/ IEEE 802.3af	Yes/ IEEE 802.3af
Operating Temp	-40°C ~ 55°C	-40°C ~ 55°C	-40°C ~ 55°C
Humidity	90% RH (no condensation)	90% RH (no condensation)	90% RH (no condensation)
Certification	CE/ FCC	CE/ FCC/ EN-50155	CE/ FCC/ EN-50155
Vandal Resistant	IK8	IK10	IK10
Outdoor Capable	IP67, build-in heater	IP67	IP67
Application	SDK available for application development	SDK available for application development	SDK available for application development

NVR Series

Model				
	NMm 004P/ 008P	NMt 004P/ 008P	NMr 004/ 008/ 016	NMe 008/ 016/ 032
	Mobile surveillance	Train surveillance	Retail surveillance	Building surveillance
Number of Cams	04/ 08	04/ 08	04/ 08/ 16	08/ 16/ 32
LAN	Dual Gigabi+ LAN	Dual Giga LAN	Dual Giga LAN	Dual Giga LAN
PoE	8	8	N/A	N/A
3G/ Wi-Fi	Optional	Optional	N/A	N/A
GPS	Optional	Optional	N/A	N/A
Resolution	CIF to 1080P	CIF to 1080P	CIF to 1080P	CIF to 1080P
Video Capability	Up to 8Ch Live view @ 1080P, 30PFS	Up to 08Ch Live view @ 1080P, 30PFS	1Ch Live view @ 1080P, 30PFS 16Ch Live view @ CIF, 30PFS	Up to 08Ch Live view @ 1080P, 30PFS Up to 32Ch Live view @ CIF, 30PFS
Protocol	TCP/IP, HTTP, DHCP Server, DDNS,FTP	TCP/IP, HTTP, DHCP Server, DDNS,FTP	TCP/IP, HTTP, DHCP Server, DDNS,FTP	TCP/IP, HTTP, DHCP Server, DDNS,FTP
CPU	Intel® Core™ i5-520M processor 2.4GHz	Intel® Core™ i7 3615QE 3.3 GHz	Atom™ D2550 processor Dual Core 1.86GHz	Intel® Core™ i5 2400 desktop processor 3.1GHz
HDD	2.5" HDD x 2	2.5" HDD x 4	3.5" HDD x 4	3.5" HDD x 8
Compression Format	H.264/ MJPEG/ MPEG4	H.264/ MJPEG/ MPEG4	H.264/ MJPEG/ MPEG4	H.264/ MJPEG/ MPEG4
Power	DC9 ~ 30V	DC12V	AC100 ~ 240V	AC100 ~ 240V
Dimensions (WxDxH mm)	235 x 268 x 101	482.6 x 450 x 88	200 x 303 x 250	440.9 x 535.2 x 88.1
Operating Environments	-5°C ~ 55°C	-40°C ~ 70°C	0°C ~ 45°C	0°C ~ 50°C
Certification	CE/ FCC/ e13Mark	CE/ FCC/ En50155	CE/ FCC	CE/ FCC
Software	<ul style="list-style-type: none"> • Linux embedded OS • Plug & Play (easy- to-operate) • Support 1080P@60FPS • High quality H.264 • MJPEG recording • E-Map 			<ul style="list-style-type: none"> • Pre/ Post-alarm recording • Event notification on monitoring • Real-time email and I/O alerts • Scheduled Backup • Mobile remote surveillance
IP Camera supported	Compatible with Axis, ACTI, Brickcom, Etrovision, Fitvision, Panasonic, NEXCam, Shany Messoa, ONViF (Coming soon)			

NVR Hardware Platform

Model				
	NViS 2140H	NViS 2280	NViS 3542	NViS 3542P4/ P8
Form Factor	Mobile Hybrid	Mobile NVR	Mobile ANPR DVR	Mobile NVR
Fanless	Yes	Yes	Yes	Smart Fan
Video Input	4 (BNC)	4 (PoE)	Customer Capture Card	4/ 8 (PoE)
Video Format	Up to 120fps @ D1	H.264, MPEG 4	SD, H.264, MPEG 4 (Capture Card Depends)	H.264, MPEG 4
Video Recording	Up to 120fps @ D1	16ch + @ Mega Pixel	Capture Card Depends	32ch + @ Mega Pixel
PoE Ports	N/A	4 (IEEE 802, 3af)	N/A	4/ 8 (IEEE 802, 3af)
CPU	Intel® Atom™ Dual Core D525 1.8GHz	Intel® Atom™ Dual Core D2700 2.13GHz	Intel® Core™ i7/i5 (rPGA)	Intel® Core™ i7/i5 (rPGA)
Chipset	ICH8M	ICH10R	QM57	QM57
Max. Memory	DDR3 2G	DDR3 4G	DDR3 4G	DDR3 4G
HDD	1 x 2.5" HDD	2 x 2.5" HDD (Hot Swap)	2 x 2.5" HDD (1x Hot Swap)	2 x 2.5" HDD (1x Hot Swap for NViS 3542P4)
VGA	Yes	Yes	Yes	Yes
HDMI	N/A	Yes	Yes	Yes
Power Ignition Support	Yes (Optional Module ISKIG120)	Yes (Optional Module ISKIG120)	Yes (Optional Module ISKIG120)	Yes (Optional Module ISKIG120)
USB	4	6	6	6
Serial Port	Yes	Yes	Yes	Yes
SIM Card Holder	Yes	Yes	Yes	Yes
LAN Ports	2	2	2	2
Power Input Range	9 ~ 36	9 ~ 36	9 ~ 30	9 ~ 30
Expansion	1 x Mini-PCIe/ 1 x PCIe NViS 2140 only	2 x Mini-PCIe for 3G/ Wi-Fi/ capture card	1 x PCIe for capture card	1 x Mini-PCIe for 3G or Wi-Fi 1 x COM for GPS



NViS 5240	NViS 6210	NViS 6220	NViS 8480
Tower NVR	2U Rackmount Hybrid	2U Rackmount NVR	4U Rackmount HDcctv
Smart Fan	Smart Fan	Smart Fan	Smart Fan
4 ~16 IP Camera (LAN)	32 (BNC)	32 IP Camera (LAN)	4 ~16 HDcctv Capture Card Depends
H.264, MPEG 4	Up to 960fps @ D1	H.264, MPEG 4	1920 x 1080P X30FPS 1920 x1080i X60FPS
16ch @ Mega Pixel	Up to 960fps @ D1	32ch @ Mega Pixel	1920 x 1080P X30FPS 1920 x1080i X60FPS
N/A	N/A	N/A	N/A
Intel® Atom™ Dual Core D2700 2.13GHz	Intel® Core™ i3/ i5/ i7 (rPGA)	Intel® Core™ i3/ i5/ i7 (rPGA)	Intel® Core™ i3/ i5/ i7 (rPGA)
ICH10R	Q67	Q67	Q67
DDR3 4G	DDR3 16G	DDR3 16G	DDR3 16G
4 x 3.5" HDD	8 x 3.5" HDD	8 x 3.5" HDD	8 x 3.5" HDD
Yes	Yes	Yes	Yes
Yes	Yes	Yes	N/A
N/A	N/A	N/A	N/A
6	6	6	8
Yes	Yes (Internal)	Yes (Internal)	Yes
N/A	N/A	N/A	N/A
2	2	2	2
AC 100 ~ 240	AC 100 ~ 240	AC 100 ~ 240	AC 100 ~ 240
1 x Mini-PCle 1 x PCle x4	1 x Mini-PCle 1 x PCle x16 (Internal use)	1 x Mini-PCle 1 x PCle x16	1 x PCle x8/ 1 x PCle x4 1 x PCle x1/ 1 x PCle x1



Main Features

- ♦ Progressive scan and 3MP or HDTV 1080p quality
- ♦ Multiple H.264 and Motion JPEG video streams
- ♦ Easy installation with remote focus and zoom control
- ♦ Support Auto-Focus to avoid focus error through human eYes
- ♦ Adjustment best image quality through P-iris
- ♦ Perfect IR exposure cacualtion
- ♦ Overcome high contrast enviornment through Wide dynamic rane
- ♦ Outdoor-ready, IP67
- ♦ Active tampering alarm
- ♦ Impact-resistant for IK10
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ Excellent low light noise reduction
- ♦ ONVIF support
- ♦ Extreme weather support (-40°C to 55°C)

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Motorized (3-10mm, F1.4) board type
- ♦ Iris type: p-iris
- ♦ Day and night: Yes
- ♦ IR distance: Effective up to 25 meter
- ♦ IR wavelength: 850nm (24pcs ϕ 5.0 IR-LED)
- ♦ IR control: Smart IR
- ♦ ICR: Yes
- ♦ WDR: Yes
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming:
Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps~10Mbps
- ♦ Frame rate:
2048 x 1536 @30 fps
1920 x 1080 @60 fps
1280 x 720 @60 fps
720 x 576 @60 fps
720 x 480 @60 fps
640 x 480 @60 fps
320 x 240 @60 fps

Audio

- ♦ Audio streaming: Two- way
- ♦ Audio compression: G.711 PCM 8KHz/ 16bit terminal block
- ♦ Audio input: Line-in
- ♦ Audio output: Line-out

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: Terminal block 1 in/ 1out
- ♦ Video output: Phone jack X1, composite 1.0 Vp-p, 75 Ω
- ♦ D I/O: DIX1, DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: DC 12V/ AC 24V
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 12W max.
- ♦ Weight: 1.5 kg
- ♦ Dimension: 123.7 mm (H), ϕ 146mm
- ♦ Operating Temp.: -40°C~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: IK10
- ♦ outdoor capable: IP67, build-in heater
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCo 301-VHR (P/N: 10HQ0030100X0)



Main Features

- ♦ Progressive scan and 3MP or HDTV 1080p quality
- ♦ Multiple H.264 and Motion JPEG video streams
- ♦ Easy installation with remote focus and zoom control
- ♦ Support Auto-Focus to avoid focus error through human eYes
- ♦ Adjustment best image quality through P-iris
- ♦ Overcome high contrast environment through Wide dynamic range
- ♦ Active tampering alarm
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ ONVIF support
- ♦ Excellent low light noise reduction

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Motorized (3-10mm, F1.4) board type
- ♦ Iris type: p-iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: Yes
- ♦ WDR: Yes
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- ♦ Frame rate:
2048 x 1536 @30 fps
1920 x 1080 @60 fps
1280 x 720 @60 fps
720 x 576 @60 fps
720 x 480 @60 fps
640 x 480 @60 fps
320 x 240 @60 fps

Audio

- ♦ Audio streaming: Two-way
- ♦ Audio compression: G.711 8KHz/ 16bit
- ♦ Audio input: Line-in
- ♦ Audio output: Line-out

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: Terminal block 1 in/ 1out
- ♦ Video output: Phone jack X1, composite 1.0 Vp-p, 75Ω
- ♦ D I/O: DIX1, DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

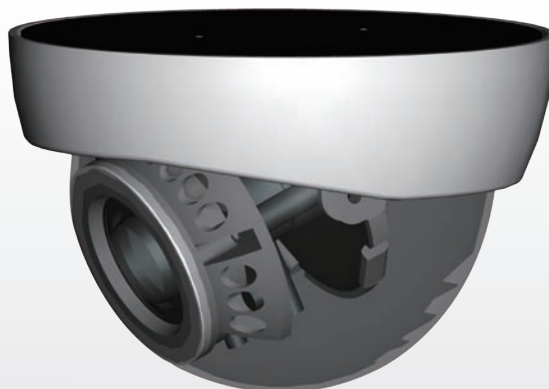
- ♦ DC: DC 12V/ AC 24V terminal block
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 10W max.
- ♦ Weight: 744g
- ♦ Dimension: 119.5 mm (H), φ134.9mm
- ♦ Operating Temp.: 0°C~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: 1K10
- ♦ outdoor capable: N/A
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCI 301-V (P/N: TBD)



Main Features

- ♦ Progressive scan and 3MP or HDTV 1080p quality
- ♦ Multiple H.264 and Motion JPEG video streams
- ♦ Easy installation with remote focus and zoom control
- ♦ support DC iris function
- ♦ Overcome high contrast enviornment through Wide dynamic rane
- ♦ Active tampering alarm
- ♦ Face detection with extended applications
- ♦ Camera health monitoring
- ♦ ONVIF support
- ♦ Perfect IR exposure cacualtion
- ♦ Excellent low light noise reduction

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: varifocal (3-10mm, F1.3) board type
- ♦ Iris type: DC-iris
- ♦ Day and night: Yes
- ♦ IR distance: Effective up to 15 meter
- ♦ IR wavelength: 850nm (15 pcs ϕ 5.0 IR-LED)
- ♦ IR control: Smart IR
- ♦ ICR: Yes
- ♦ WDR: Yes (DWDR)
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming:
Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- ♦ Frame rate:
2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: N/A
- ♦ Audio compression: N/A
- ♦ Audio input: N/A
- ♦ Audio output: N/A

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: N/A
- ♦ Video output: N/A
- ♦ D I/O: DIX1,DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: DC 12V terminal block
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 7W max.
- ♦ Weight: 744g
- ♦ Dimension: 73 mm (H), ϕ 111 mm
- ♦ Operating Temp.: 0°C ~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: N/A
- ♦ outdoor capable: N/A
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCI 311-R (P/N: TBD)



Main Features

- ♦ Progressive scan and 3MP or HDTV 1080p quality
- ♦ Multiple H.264 and Motion JPEG video streams
- ♦ Easy installation with remote focus and zoom control
- ♦ support DC iris function
- ♦ Overcome high contrast environment through Wide dynamic range
- ♦ Active tampering alarm
- ♦ Face detection with extended applications
- ♦ Camera health monitoring
- ♦ ONVIF support
- ♦ Excellent low light noise reduction

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: varifocal (3-10mm, F1.3) board type
- ♦ Iris type: DC-iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: N/A
- ♦ WDR: Yes (DWDR)
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- ♦ Frame rate:
2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: N/A
- ♦ Audio compression: N/A
- ♦ Audio input: N/A
- ♦ Audio output: N/A

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: N/A
- ♦ Video output: N/A
- ♦ D I/O: DIX1, DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

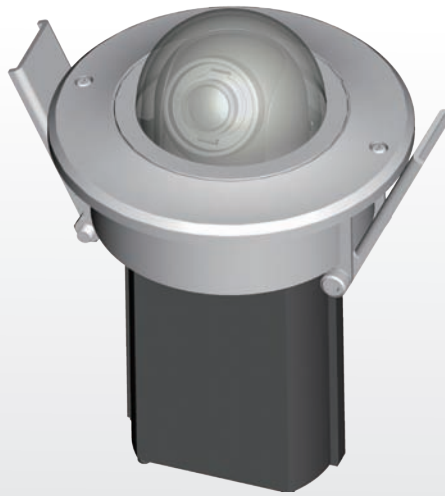
- ♦ DC: DC 12V terminal block
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 6W max.
- ♦ Weight: 744g
- ♦ Dimension: 73 mm (H), ϕ 111 mm
- ♦ Operating Temp.: 0°C ~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: N/A
- ♦ outdoor capable: N/A
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCI 311 (P/N: TBD)



Main Features

- ♦ 1/3" Progressive Scan CMOS Image Sensor
- ♦ Up to 3Megapixel 2048 x 1536 Resolution
- ♦ 30fps at Full- HD 1080p
- ♦ 3.6mm Wide Angle Lens
- ♦ EWDR Supported
- ♦ 802.3af PoE Supported
- ♦ Ceiling Mount Supported
- ♦ Gigabit Ethernet 10M/ 100M/ 1000M
- ♦ ONVIF Compliant

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Fixd Lens 2.8mm F 2.0 option/ 3.6 mm F1.8
- ♦ Iris type: fix iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: N/A
- ♦ WDR: Yes (DWDR)
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- ♦ Frame rate: 2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: N/A
- ♦ Audio compression: N/A
- ♦ Audio input: N/A
- ♦ Audio output: N/A

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: N/A
- ♦ Video output: N/A
- ♦ D I/O: DIX1,DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: DC 12V terminal block
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 6W max.
- ♦ Weight: 500g
- ♦ Dimension: 91 mm (H), ϕ 131.5 mm
- ♦ Operating Temp.: 0°C ~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: N/A
- ♦ outdoor capable: N/A
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCI 312 (P/N: TBD)



Main Features

- Bundle board type 3MP P-Iris Lens
- Support remote control for zoom and focus
- Reserved USB interface for wireless network adapter
- Face detection with extended applications
- Audio and human voice detection
- Camera health monitoring
- ONVIF support
- Excellent low light noise reduction

Camera Specification

Camera General Information

- Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- Lens: Motorized (3-10mm, F1.4) board type
- Iris type: P-iris
- Day and night: Yes
- IR distance: N/A
- IR wavelength: N/A
- IR control: N/A
- ICR: Yes
- WDR: Yes
- Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- Video compression: H.264/ M-JPEG
- Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- Video resolution: 2048 x 1536 to 320 x 240
- Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- Frame rate:
2048 x 1536 @30 fps
1920 x 1080 @60 fps
1280 x 720 @60 fps
720 x 576 @60 fps
720 x 480 @60 fps
640 x 480 @60 fps
320 x 240 @60 fps

Audio

- Audio streaming: Two- way
- Audio compression: G.711 8KHz/ 16bit
- Audio input: Line-in
- Audio output: Line-out

Network

- Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- Security: Multi-level passwords/ HTTP encryption

I/O Connector

- Audio in/ out port: 2.5 mm phone jack x1
- Video output: BNC X1, composite 1.0 Vp-p, 75Ω
- D I/O: DIX1, DOX1
- RS485: N/A
- Micro SD slot: Yes
- RJ45: Yes

Event Management

- Event trigger : Motion detection , DI
- Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- post-recording : Yes
- Pre-recording : Yes

Power

- DC: DC 12V/ AC 24V
- POE: Yes/ IEEE 802.3af

General

- Power consumption: 10W max.
- Weight: 520g
- Dimension: 64 mm (H) , 73.3 mm (W) , 156.5 mm (D)
- Operating Temp.: 0°C ~ 55°C
- Humidity: 90% RH (no condensation)
- Certification: CE/ FCC
- Vandal resistant: N/A
- outdoor capable: N/A
- Application: SDK available for application development

Ordering Information

- NCb 301 (P/N: 10HB0030100X0)



Main Features

- ♦ changeable CS mount lens option
- ♦ Support remote control for zoom and focus
- ♦ Reserved USB interface for wireless network adapter
- ♦ Reserved strobe interface for traffic application
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ ONVIF support
- ♦ Excellent low light noise reduction

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: CS mount
- ♦ Iris type: DC-iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: Yes
- ♦ WDR: Yes (DWDR)
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps ~10Mbps
- ♦ Frame rate:
2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: Two-way
- ♦ Audio compression: G.711 8KHz/ 16bit
- ♦ Audio input: Line-in
- ♦ Audio output: Line-out

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: 2.5 mm phone jack x1
- ♦ Video output: BNC x1, composite 1.0 Vp-p, 75Ω
- ♦ D I/O: DIX1, DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: DC 12V/ AC 24V terminal block
- ♦ POE: Yes/ IEEE 802.3at (POE+)

General

- ♦ Power consumption: 10W max.
- ♦ Weight: 400g (without lens)
- ♦ Dimension: 64 mm (H), 73.3 mm (W) , 137.4 mm (D)
- ♦ Operating Temp.: 0°C ~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: N/A
- ♦ outdoor capable: N/A
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCb 311 (P/N: TBD)



Main Features

- ♦ Dual BIOS design, camera will auto recovery to previous version of firmware while update firmware failed
- ♦ Binary code compatible for all 3MP~ 2MP models
- ♦ Separate parameters for easy customization
- ♦ Progressive scan and 3MP or HDTV 1080p image quality
- ♦ Multiple H.264 and Motion JPEG video streams
- ♦ Auto iris control to get best Lens quality
- ♦ Overcome high contrast environment through Wide dynamic range
- ♦ Outdoor- ready, and IP67
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ ONVIF support
- ♦ Excellent low light noise reduction

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Motorized (3-10mm, F1.4) board type
- ♦ Iris type: P-iris
- ♦ Day and night: Yes
- ♦ IR distance: Effective up to 35 meter
- ♦ IR wavelength: 850nm (36 pcs ϕ 5.0 IR-LED)
- ♦ IR control: smart IR
- ♦ ICR: Yes
- ♦ WDR: Yes
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming:
 - Triple streaming
 - H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps~10Mbps
- ♦ Frame rate:
 - 2048 x 1536 @30 fps
 - 1920 x 1080 @60 fps
 - 1280 x 720 @60 fps
 - 720 x 576 @60 fps
 - 720 x 480 @60 fps
 - 640 x 480 @60 fps
 - 320 x 240 @60 fps

Audio

- ♦ Audio streaming: Two- way
- ♦ Audio compression: G.711 8KHz/ 16bit
- ♦ Audio input: Line-in
- ♦ Audio output: Line-out

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: 2.5 mm phone jack x1
- ♦ Video output: N/A
- ♦ D I/O: DIX1, DOX1
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection , DI
- ♦ Notifications : Trigger alarm output, email/ FTP and record video to PC or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: DC 12V/ AC 24V terminal block
- ♦ POE: Yes/ IEEE 802.3at (POE+)

General

- ♦ Power consumption: 20W max.
- ♦ Weight: 1.7kg
- ♦ Dimension: 225 mm (H), ϕ 121mm
- ♦ Operating Temp.: -40°C~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC
- ♦ Vandal resistant: IK8
- ♦ outdoor capable: IP67, build-in heater
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCr 301-VHR (P/N: 10HR0030100X0)



Main Features

- ♦ Flat, rugged design
- ♦ Progressive scan and 3megapixel/ Full HD
- ♦ Multiple H.264 and Motion JPEG streams
- ♦ Quick and reliable installation
- ♦ Active tampering alarm
- ♦ Aluminum casing for IP67
- ♦ Impact-resistant for IK10
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ Excellent low light noise reduction
- ♦ Image angle adjustment, Pan±30°, Tilt 0-90°, Rotation±180°
- ♦ ONVIF support
- ♦ overcome high contrast enviroment through Wide dynamic range

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Fixd Lens 3.6 mm F1.8
- ♦ Iris type: Fix iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: N/A
- ♦ WDR: Yes
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps~10Mbps
- ♦ Frame rate:
2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: N/A
- ♦ Audio compression: N/A
- ♦ Audio input: N/A
- ♦ Audio output: N/A

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: N/A
- ♦ Video output: N/A
- ♦ D I/O: N/A
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection
- ♦ Notifications : email/ FTP and record video to server or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: N/A
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 6W max.
- ♦ Weight: 392g
- ♦ Dimension: 111 mm (H), φ51.3mm
- ♦ Operating Temp.: -40°C~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC/ EN-50155
- ♦ Vandal resistant: IK10
- ♦ outdoor capable: IP67
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCm 301-V (P/N: 10H00030100X0)



Main Features

- ♦ Flat, rugged design
- ♦ Progressive scan and 3megapixel/ Full HD
- ♦ Multiple H.264 and Motion JPEG streams
- ♦ Quick and reliable installation
- ♦ Active tampering alarm
- ♦ Aluminum casing for IP67
- ♦ Impact-resistant for IK10
- ♦ Face detection with extended applications
- ♦ Audio and human voice detection
- ♦ Camera health monitoring
- ♦ Excellent low light noise reduction
- ♦ Image angle adjustment, Pan±30°, Tilt 0-90°, Rotation±180°
- ♦ ONVIF support
- ♦ overcome high contrast enviroment through Wide dynamic range

Camera Specification

Camera General Information

- ♦ Image sensor: 1/3" 3M true WDR progressive scan CMOS sensor
- ♦ Lens: Fixd Lens 2.8 mm F1.8
- ♦ Iris type: Fix iris
- ♦ Day and night: Yes
- ♦ IR distance: N/A
- ♦ IR wavelength: N/A
- ♦ IR control: N/A
- ♦ ICR: N/A
- ♦ WDR: Yes
- ♦ Image enhance: Brightness, Contrast, Saturation, Sharpness, Backlight compensation, Mirror, Flip, Day/ Night, Anti-flicker

Video

- ♦ Video compression: H.264/ M-JPEG
- ♦ Video streaming: Triple streaming
H.264 Stream 1/ H.264 Stream 2/ MJPEG Stream 3
- ♦ Video resolution: 2048 x 1536 to 320 x 240
- ♦ Video quality: VBR: 5 level adjustable, CBR: 30Kbps~10Mbps
- ♦ Frame rate:
2048 x 1536 @15 fps
1920 x 1080 @30 fps
1280 x 720 @30 fps
720 x 576 @30 fps
720 x 480 @30 fps
640 x 480 @30 fps
320 x 240 @30 fps

Audio

- ♦ Audio streaming: N/A
- ♦ Audio compression: N/A
- ♦ Audio input: N/A
- ♦ Audio output: N/A

Network

- ♦ Interface: 10/ 100/ 1000 Mbps Ethernet, RJ-45
- ♦ Supported protocols: HTTP, TCP/ IP, UDP, RTP, RTSP, FTP, SMTP, DHCP, DNS, DDNS, NTP, uPnP, ONVIF, IPv4/ v6
- ♦ Security: Multi-level passwords/ HTTP encryption

I/O Connector

- ♦ Audio in/ out port: N/A
- ♦ Video output: N/A
- ♦ D I/O: N/A
- ♦ RS485: N/A
- ♦ Micro SD slot: Yes
- ♦ RJ45: Yes

Event Management

- ♦ Event trigger : Motion detection
- ♦ Notifications : email/ FTP and record video to server or SD card
- ♦ post-recording : Yes
- ♦ Pre-recording : Yes

Power

- ♦ DC: N/A
- ♦ POE: Yes/ IEEE 802.3af

General

- ♦ Power consumption: 6W max.
- ♦ Weight: 392g
- ♦ Dimension: 111 mm (H), φ51.3mm
- ♦ Operating Temp.: -40°C~ 55°C
- ♦ Humidity: 90% RH (no condensation)
- ♦ Certification: CE/ FCC/ EN-50155
- ♦ Vandal resistant: IK10
- ♦ outdoor capable: IP67
- ♦ Application: SDK available for application development

Ordering Information

- ♦ NCm 301-2V (P/N: TBD)



Main Features

- ♦ Linux embedded OS
- ♦ Plug & Play (easy- to- operate)
- ♦ Support up to 8 channels & PoE
- ♦ Support 1080P@60FPS
- ♦ High quality H.264, MJPEG recording
- ♦ E-Map
- ♦ Pre/ Post –alarm recording
- ♦ Event notification on monitoring
- ♦ Real-time Email and I/O alerts
- ♦ Scheduled Backup
- ♦ Mobile remote surveillance

NVR Software Features

Monitoring

- ♦ Recording and display IP camera, up to 8Ch of M-JPEG and H.264
- ♦ Real-time Video signal loss detection and notifications
- ♦ Editable Multi-layer E-Map for new camera and I/O icons, and display video on map
- ♦ Password/ Multi-user management
- ♦ On screen PTZ control panel
- ♦ Display and estimate Hard disk capacity and recording time
- ♦ Digital watermarking

Recording

- ♦ Megapixel recording frame per second up to 60 f/s (NTSC), 50f/s (PAL)
- ♦ Event pre-alarm recording 5~30; Post-alarm recording 10~120
- ♦ Adjustable file length: 5, 10, 15 minutes

Audio

- ♦ Live Audio streaming and recording

Smart Search & Easy Playback

- ♦ Support multi-channel time synchronized or not synchronized playback
- ♦ Support single channel playback of different time intervals
- ♦ Support video and audio synchronized playback
- ♦ Support single and multiple channels backup

Notification

- ♦ Each camera can connect to any or all the sensors and select one or all different notifications
- ♦ Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed
- ♦ Auto pop-up on e-Map when event occurred

Mobile Phone Application

- ♦ Support Iphone and Android phone

Analytics

- ♦ Motion detection
- ♦ Missing object detection (Play Back)
- ♦ Intrusion detection (Play Back)

Hardware Specification

IP Camera Input

- ♦ 4/ 8

Chipset

- ♦ On-board Mobile Intel® QM57 Platform

CPU

- ♦ Intel® Core™ i5-520M PGA processor (2.4GHz, 3M cache)

Memory Type

- ♦ 4 GB DDR3 DRAM

Audio

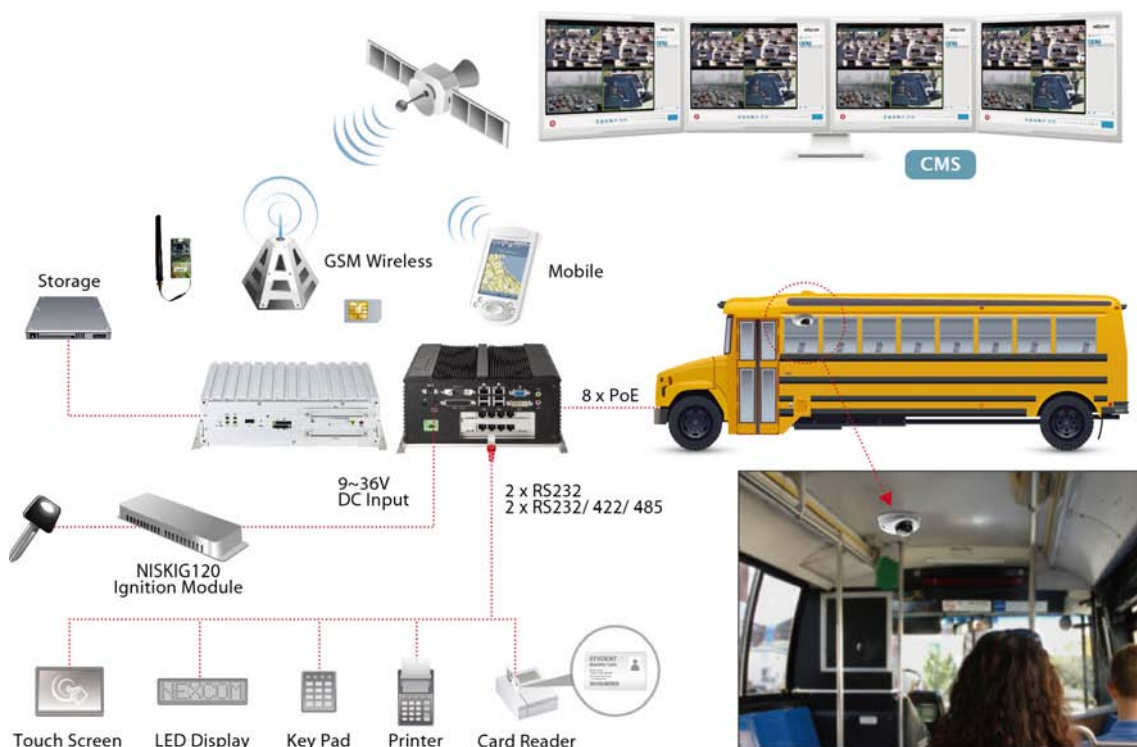
- ♦ Synchronized audio & video recording

I/O

- ♦ 6 x USB2.0 ports
- ♦ 2 x GbE LAN ports
- ♦ 1 x Line-out and 1x Mic-in
- ♦ 1 x HDMI 1x External SIM card holder
- ♦ 1 x VGA port 1x DVI-D port
- ♦ 1 x DB15 male connector for GPIO (4 x input and 4 x output)
- ♦ 1 x DB44 serial port for 4 x RS232
- ♦ 1 x Speaker-out and 1x Mic-in

Communication

- ♦ WAN: through mini-PCle for optional 3G/ 3.5G/ GSM module
- ♦ WLAN: through mini-PCle for optional Wi-Fi module (either one)
- ♦ GPS: through internal COM for GPS module



Storage

- 2 x 2.5" HDD driver bay (NVIS 3542P4, support 1 x hot-swappable)
- 2 x 2.5" Internal HDD driver bay (NVIS 3542P8)

Environment

- Ambient with air flow: -5°C ~ 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C ~ 80°C Relative humidity: 10% to 93% (non-condensing)
- Vibration (random): 2g@5 ~ 500 Hz with SSD; 1g@5 ~ 500 Hz with HDD (in operation)
- Vibration: STD-810F-514.5 C3- Composite wheeled vehicle (SSD with vibration kit)

Certifications

- CE approval
- FCC Class A
- e13 Mark

Power Supply

- 9 ~ 30V DC input

Dimensions

- 235mm (W) x 268 mm (D) x 101mm (H)

Ordering Information

- NMm 004P/008P (P/N: TBD)



Main Features

- ♦ Linux embedded OS
- ♦ Plug & Play (easy- to- operate)
- ♦ Support up to 16 channels
- ♦ Support 1080P@60FPS
- ♦ High quality H.264, MJPEG recording
- ♦ E-Map
- ♦ Pre/ Post –alarm recording
- ♦ Event notification on monitoring
- ♦ Real-time Email and I/O alerts
- ♦ Scheduled Backup
- ♦ Mobile remote surveillance

NVR Software Features

Monitoring

- ♦ Recording and display IP camera, up to 16Ch of M-JPEG and H.264
- ♦ Real-time Video signal loss detection and notifications
- ♦ Editable Multi-layer E-Map for new camera and I/O icons, and display video on map
- ♦ Password/ Multi-user management
- ♦ On screen PTZ control panel
- ♦ Display and estimate Hard disk capacity and recording time
- ♦ Digital watermarking

Recording

- ♦ Megapixel recording frame per second up to 60 f/s (NTSC), 50f/s (PAL)
- ♦ Event pre-alarm recording 5~30; Post-alarm recording 10~120
- ♦ Adjustable file length: 5, 10, 15 minutes

Audio

- ♦ Live Audio streaming and recording

Smart Search & Easy Playback

- ♦ Support multi-channel time synchronized or not synchronized playback
- ♦ Support single channel playback of different time intervals
- ♦ Support video and audio synchronized playback
- ♦ Support single and multiple channels backup

Notification

- ♦ Each camera can connect to any or all the sensors and select one or all different notifications
- ♦ Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed
- ♦ Auto pop-up on e-Map when event occurred

Mobile Phone Application

- ♦ Support Iphone and Android phone

Analytics

- ♦ Motion detection
- ♦ Missing object detection (Play Back)
- ♦ Intrusion detection (Play Back)

Hardware Specification

IP Camera Input

- ♦ 4/ 8/ 16

CPU

- ♦ onBoard Intel® Atom™ D2550 Processor Dual Core 1.86Ghz

Memory Type

- ♦ 4 GB DDR3 DRAM

Audio

- ♦ Synchronized audio & video recording

Storage

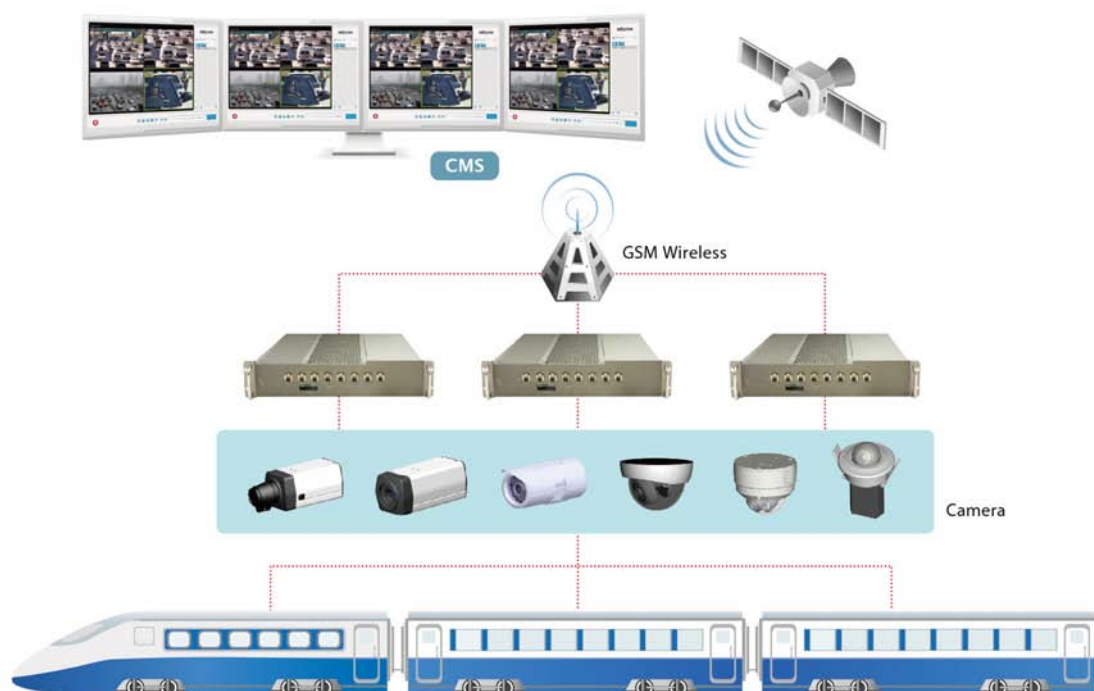
- ♦ 4 x 3.5" HDD removable driver bay (up to 12T)

I/O

- ♦ 2 x Intel® GbE ports
- ♦ 6 x USB2.0 ports
- ♦ 1 x VGA port 1 x HDMI
- ♦ 1 x eSATA 1 x RS232
- ♦ 2 x PS/ 2 for keyboard and mouse
- ♦ 1 x Speaker-out/ Mic-in
- ♦ 1 x Speaker-out and 1 x Mic-in

Environment

- ♦ Ambient with air flow: 0°C to 45°C Storage temperature: -20°C to 80°C
- ♦ Relative humidity: 10% to 90% (non-condensing)



Certifications

- CE approval
- FCC Class A

Power Supply

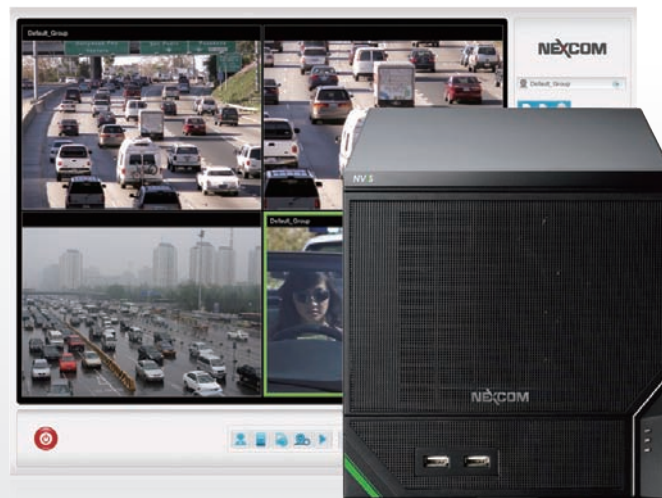
- 200W ATX power supply AC 100V to 240V

Dimensions

- 200mm(W) x 250mm(H) x 303mm(D)

Ordering Information

- NMt 004P/008P (P/N: TBD)



Main Features

- ♦ Linux embedded OS
- ♦ Plug & Play (easy- to- operate)
- ♦ Support up to 8 channels & PoE w/ M12 connector
- ♦ Support 1080P@60FPS
- ♦ High quality H.264, MJPEG recording
- ♦ E-Map
- ♦ Pre/ Post –alarm recording
- ♦ Event notification on monitoring
- ♦ Real-time Email and I/O alerts
- ♦ Scheduled Backup
- ♦ Mobile remote surveillance

NVR Software Features

Monitoring

- ♦ Recording and display IP camera, up to 8Ch of M-JPEG and H.264
- ♦ Real-time Video signal loss detection and notifications
- ♦ Editable Multi-layer E-Map for new camera and I/O icons, and display video on map
- ♦ Password/ Multi-user management
- ♦ On screen PTZ control panel
- ♦ Display and estimate Hard disk capacity and recording time
- ♦ Digital watermarking

Recording

- ♦ Megapixel recording frame per second up to 60 f/s (NTSC), 50f/s (PAL)
- ♦ Event pre-alarm recording 5~30; Post-alarm recording 10~120
- ♦ Adjustable file length: 5, 10, 15 minutes

Audio

- ♦ Live Audio streaming and recording

Smart Search & Easy Playback

- ♦ Support multi-channel time synchronized or not synchronized playback
- ♦ Support single channel playback of different time intervals
- ♦ Support video and audio synchronized playback
- ♦ Support single and multiple channels backup

Notification

- ♦ Each camera can connect to any or all the sensors and select one or all different notifications
- ♦ Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed
- ♦ Auto pop-up on e-Map when event occurred

Mobile Phone Application

- ♦ Support Iphone and Android phone

Analytics

- ♦ Motion detection
- ♦ Missing object detection (Play Back)
- ♦ Intrusion detection (Play Back)

Hardware Specification

IP Camera Input

- ♦ 4/ 8

CPU

- ♦ Intel® Core™ i7 3615QE

Memory Type

- ♦ 4 GB DDR3 SDRAM

Audio

- ♦ Synchronized audio & video recording

I/O

- ♦ 8 x Gbe POE w/ M12 connector
- ♦ 2 x Intel® GbE LAN
- ♦ 2 x USB2.0 ports
- ♦ 2 x USB3.0 ports
- ♦ 1 x DB15 VGA port/ 1 x HDMI
- ♦ 2 x RS232
- ♦ 1 x Speaker-out/ Mic-in

Communication

- ♦ WAN: through mini-PCIe for optional 3G/ 3.5G/ GSM module
- ♦ WLAN: through mini-PCIe for optional Wi-Fi module (either one)
- ♦ GPS: through internal COM for GPS module

Storage

- ♦ 4 x 2.5" HDD removable driver bay (up to 4T)
- ♦ 2 x 2.5" Internal HDD driver bay (NMT 008P)



Environment

- Operating Temperatures: -40 ~ 70°C (EN50155 TX)

Certifications

- CE
- FCC Class A
- EN50155
- EN45545 or DIN 5510: Preventive fire protection in railway vehicles

Power Supply

- 24V DC

Dimensions

- 400 mm (W) x 482.6 mm (D) x 88 mm (H)

Ordering Information

- NMr 004/008/016 (P/N: TBD)



Main Features

- ♦ Linux embedded OS
- ♦ Plug & Play (easy- to- operate)
- ♦ Support up to 32 channels
- ♦ Support 1080P@60FPS
- ♦ High quality H.264, MJPEG recording
- ♦ E-Map
- ♦ Pre/ Post –alarm recording
- ♦ Event notification on monitoring
- ♦ Real-time Email and I/O alerts
- ♦ Scheduled Backup
- ♦ Mobile remote surveillance

NVR Software Features

Monitoring

- ♦ Recording and display IP camera, up to 32Ch of M-JPEG and H.264
- ♦ Real-time Video signal loss detection and notifications
- ♦ Editable Multi-layer E-Map for new camera and I/O icons, and display video on map
- ♦ Password/ Multi-user management
- ♦ On screen PTZ control panel
- ♦ Display and estimate Hard disk capacity and recording time
- ♦ Digital watermarking

Recording

- ♦ Megapixel recording frame per second up to 60 f/s (NTSC), 50f/s (PAL)
- ♦ Event pre-alarm recording 5 ~ 30; Post-alarm recording 10 ~ 120
- ♦ Adjustable file length: 5, 10, 15 minutes

Audio

- ♦ Live Audio streaming and recording

Smart Search & Easy Playback

- ♦ Support multi-channel time synchronized or not synchronized playback
- ♦ Support single channel playback of different time intervals
- ♦ Support video and audio synchronized playback
- ♦ Support single and multiple channels backup

Notification

- ♦ Each camera can connect to any or all the sensors and select one or all different notifications
- ♦ Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed
- ♦ Auto pop-up on e-Map when event occurred

Mobile Phone Application

- ♦ Support Iphone and Android phone

Analytics

- ♦ Motion detection
- ♦ Missing object detection (Play Back)
- ♦ Intrusion detection (Play Back)

Hardware Specification

IP Camera Input

- ♦ 16/ 32

CPU

- ♦ Intel® Core™ i5 2400 desktop processor (6M cache 3.1 GHZr, LGA 1155)

Memory Type

- ♦ 4 GB DDR3 DRAM

Audio

- ♦ Synchronized audio & video recording

Storage

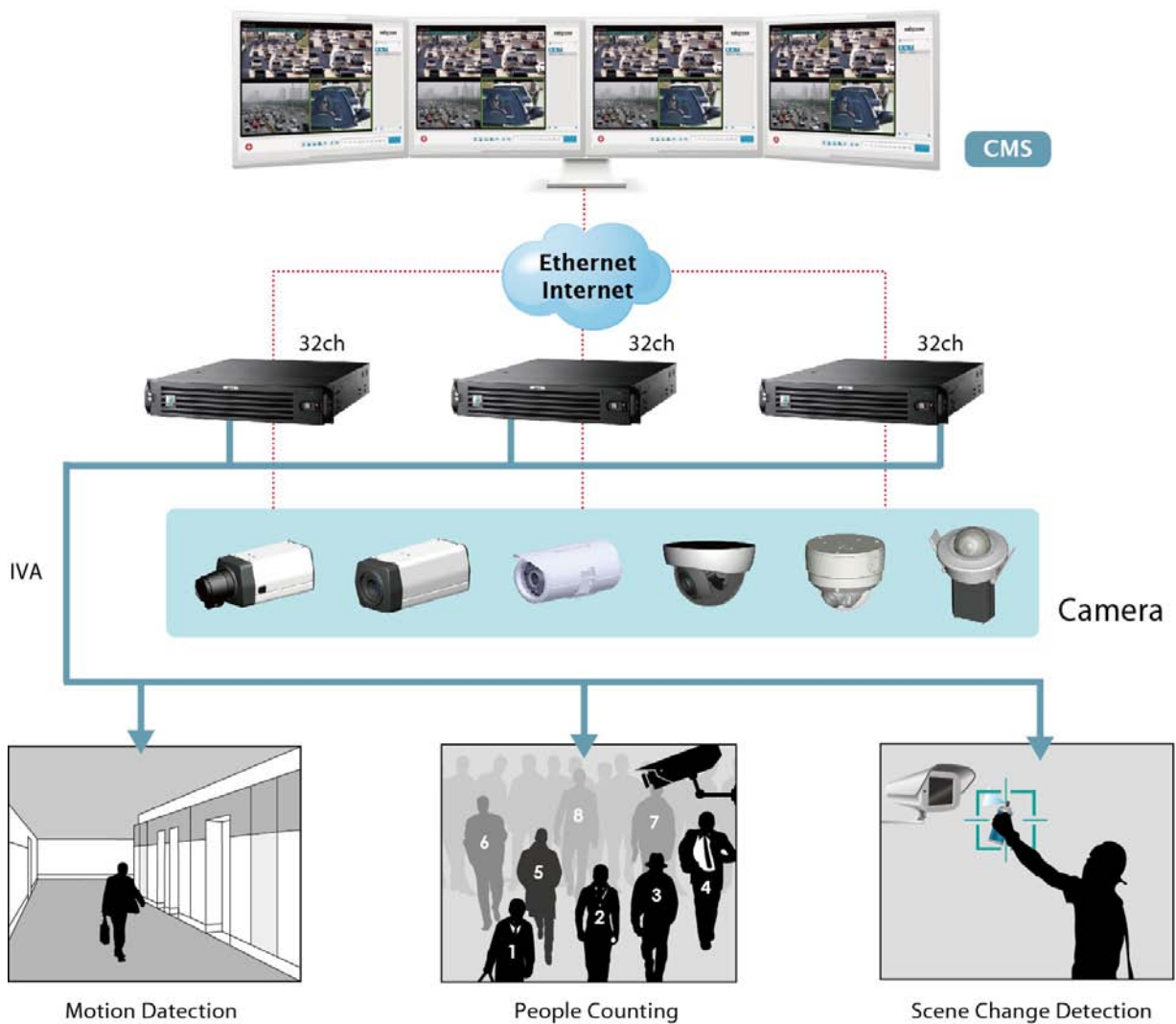
- ♦ 8 x 3.5" HDD removable driver bay (up to 12T)

I/O

- ♦ 2 x Intel® GbE LAN
- ♦ 6 x USB2.0 ports
- ♦ 1 x DB15 VGA port/ 1 x HDMI/ 1 x DVI
- ♦ 1 x RS232
- ♦ 1 x Speaker-out/ Mic-in

Environment

- ♦ Ambient with air flow: 0°C to 45°C Storage temperature: -20°C to 80°C
- ♦ Relative humidity: 10% to 90% (non-condensing)



Certifications

- CE approval
- FCC Class A

Power Supply

- 600W AC 100V to 240V

Dimensions

- 535.2mm(D) x 440.9mm(W) x 88.1mm(H)

Ordering Information

- NMr 008/016/032 (P/N: TBD)

NViS 2140H

4 Channels, Hybrid Mobile Surveillance
with Intel® Atom™ D525 1.8GHz Fanless System



Main Features

- ♦ On-board Intel® Atom™ Dual Core D525 (1.8GHz, 1M Cache) Processor
- ♦ One DDR3 SO-DIMM socket, DDR3 800 2G Memory Module
- ♦ 2 x Intel® Gigabit Ethernet Ports
- ♦ 4 x USB 2.0 / 1 x VGA
- ♦ 4 x Serial port and 2 x RS232/ 422/ 485 with Auto-flow Control
- ♦ 1 x Mini-PCIe Socket On-board
- ♦ One External CF Socket and One External SIM Card Holder
- ♦ 9V- 36V DC Input
- ♦ 4 channels Full-D1 Display/ Recording

Product Overview

NViS 2140H features an on-board Intel® Atom™ D525 1.8GHz processor. NViS 2140H provides a wide variety of I/O interfaces including 2 x Intel® GbE Ethernet ports, 4 x COM ports, 4 x USB, 1 x GPIO, and audio interface.

Specifications

Main Board

- ♦ NISB 2100A
- ♦ On-board Intel® Atom™ Dual Core D525 FCBGA processor (1.8GHz, 1M Cache)
- ♦ Intel® ICH8M PCH

Main Memory

- ♦ 1 x 204 -pin SO-DIMM memory, up to 2GB DDR3 800, un-buffered and non-ECC

I/O Interface-Front

- ♦ ATX power on/off switch
- ♦ HDD access/ power status LEDs
- ♦ 2 x USB2.0 ports
- ♦ 2 x Serial port (RS232)
- ♦ 1 x external SIM card holder
- ♦ 1 x DB15 GPIO connector
- ♦ 2 x Antenna holes (either optional Wi-Fi or mobile wireless module)

I/O Interface-Rear

- ♦ 9V- 36V DC input
- ♦ 1 x 3-pin for remote power on/ off switch
- ♦ 1 x DB15 VGA port
- ♦ 2 x Intel® GbE LAN ports
- ♦ 1 x Speaker out
- ♦ 2 x USB2.0 ports
- ♦ 4 x Serial port (2 x RS232 and 2 x RS232/ 422/ 485 with auto-flow control)

Storage

- ♦ 1 x 2.5" HDD driver bay
- ♦ One external CF socket

Expansion

- ♦ 1 x mini-PCIe socket on-board (either optional Wi-Fi or mobile wireless module)

Power Requirements

- ♦ ATX power mode
- ♦ DC to DC power design on-board, support from 9V- 36V DC
- ♦ Optional 19V, 65W power adapter

Dimensions

- ♦ 195mm (W) x 200mm (D) x 90mm (H) (7.7" x 7.9" x 3.5")

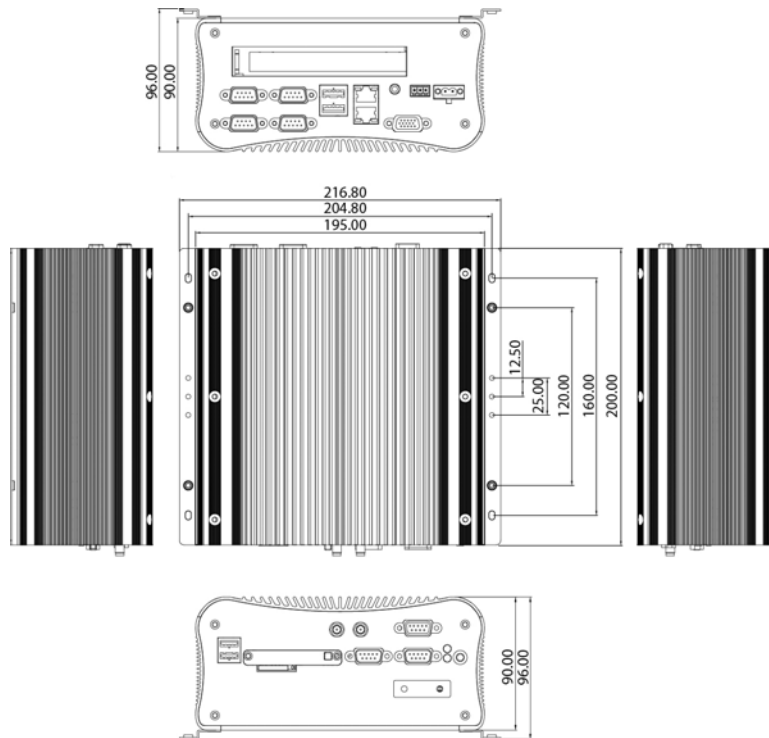
Construction

- ♦ Aluminum chassis with fanless design

Environment

- ♦ Operating Temperature:
Ambient with air flow: -20°C- 70°C (with industrial CF & SSD condition)
- ♦ Storage temperature: -20°C- 80°C
- ♦ Relative humidity: 10% to 93% (non-condensing)

Dimension Drawing



Certifications

- ♦ CE approval
- ♦ FCC Class A
- ♦ e13 mark

Ordering Information

- ♦ **NViS 2140H (P/N: 10C2140H00X0) RoHS Compliant**
Intel® Atom™ Dual Core D525 fanless system
- ♦ **19V, 120W AC/DC power adapter w/o power core (P/N: 7410120002X00)**



Main Features

- Built-in Intel® Atom™ D2550 Dual Core 1.86GHz Processor
- Internal wireless communication (3.5G/ WLAN/ BT/ GPS)
- 2 x 2.5" hot swappable HDD Tray for 750G or Above Video Data
- Dual Local Display by (VGA+HDMI)
- 2 x Intel® 82583V Gigabit Ethernet
- Support 1 x Isolated RS-232 Port
- Optional Power Ignition
- 9~36V wide rang power input

Product Overview

The NVR NViS 2280 is equipped with an Intel® Atom™ D2550 processor in compact design for in-vehicle applications. Incorporating an all-in-one embedded server board, NViS 2280 provides high quality digital recording, real-time display and supports a wide range of megapixel IP cameras.

Specifications

Main Board

- On-board Intel® Atom™ D2550 processor Dual Core 1.86Ghz

Main Memory

- 2 x DDR3 1067MHz SODMIM socket, up to 4G

Platform Control Hub

- Intel® ICH10R

I/O Interface-Front

- Power on/ off switch
- HDD access/ power/ LAN status LEDs
- 2 x USB2.0 ports
- 1 x SIM card holder
- 1 x Speaker-out and 1 x Mic-in
- 4-port Gigabit PoE (IEEE802.3af-16.8W per port)

I/O Interface-Rear

- 2 x Intel® 82583V GbE ports
- 2 x USB2.0 ports
- 1 x DB15 VGA port
- 1 x HDMI
- 1 x RS232/ 422/ 485 with isolated
- 1 x eSATA
- Reserved for 5 optional antenna holes for GPS/ Wi-Fi/ WWAN
- Built-in G-sensor 3-AXIS digital accelerometer (ADXL345)
- 12V (2A) output for CCVT power source

Communication

- WWAN: through Mini-PCle for optional 3G/ 3.5G/ GPRS/ GSM module
- WLAN: through Mini-PCle for optional Wi-Fi module
- PAN: through internal COM for optional BT module
- GPS: through internal COM for GPS module
- PoE: for IP camera module

Storage

- 2 x 2.5" HDD driver bay with hot swap
- 1 x SATA DOM for OS (optional)

Power Requirements

- On-board DC to DC power support from 9V to 36V DC
- Optional power adapter

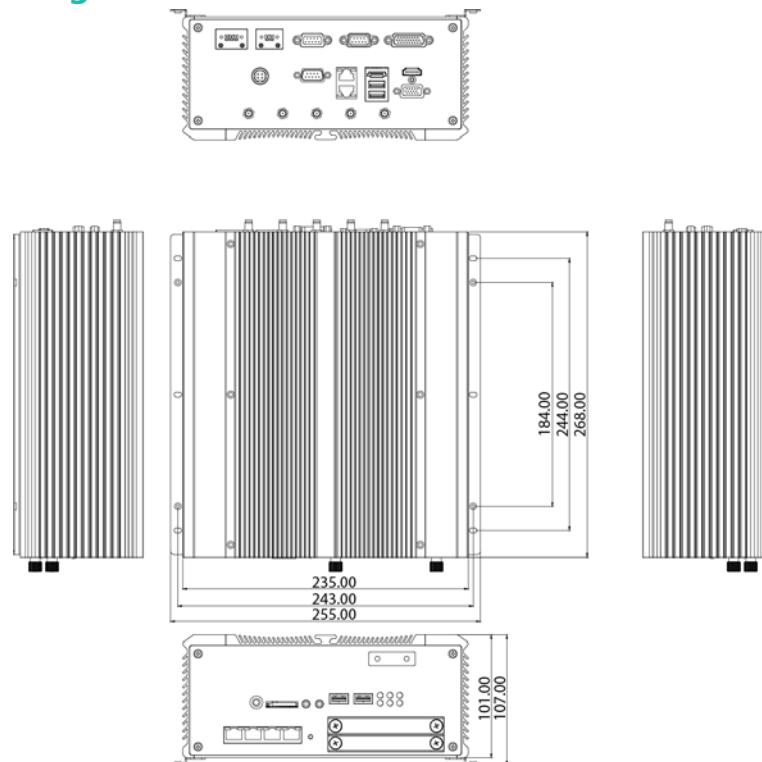
Dimensions

- 235mm(W) x 268mm(D) x 101mm(H)

Environment

- Operating Temperature:
Ambient with air flow: -20°C to 60°C
- Storage temperature: -40°C to 80°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration: STD-810F-514.5 C3- Composite wheeled vehicle (SSD with vibration kit)

Dimension Drawing



Certifications

- ♦ CE approval
- ♦ FCC Class A
- ♦ e13 mark

Ordering Information

- ♦ **NVi 2280P4 (P/N: 10C0228000X0) RoHS Compliant**
PoE Ready, Mobile NVR with Intel® Atom™ D2550 processor

Optional Accessories

- ♦ **Anti-vibration kit (P/N: TBD)**
- ♦ **9~36V Power ignition module (NISKIG120)**
(P/N: 10JKIG12000X0)
- ♦ **VMD 1000-B (P/N: 10VD0100000X0)**
7-inch WVGA LCD with touch screen vehicle display



Main Features

- Support Intel® Core™ i7/ i5 socket processor
- Mobile Intel® QM57 PCH
- Dual Intel® Gigabyte Ethernet ports
- Dual VGA/ DVI or VGA/ HDMI or DVI/ HDMI Display
- 3 x RS-232 and 1 x RS-232/ 422/ 485 with auto flow control
- On-board DC to DC power design to support 9V to 30V DC power input
- Support ATX power mode and PXE/WoL
- Support 3G/ Wi-Fi/ GPS communications
- 1 x PCIe x1 slot for ANPR/ LPR video capture

Product Overview

Utilizing 32nm Intel® Core™ i7/ i5 processor, NViS 3542 series features Intel® Turbo Boost and Intel® Hyper-Threading technologies (2 cores, 4 threads), as well as on-processor graphics and two DDR3 800/ 1066 memory modules up to 8GB. In addition, NViS 3542 provides a wide variety of display I/O configurations and rich I/O interfaces including two Intel® GbE Ethernet ports, 5 x COM ports, 6 x USB, 8 x GPIO, 2 x SATAII, 2 x eSATA, audio interfaces. NViS 3542 is designed for LPR/ ANPR surveillance or a broad range of applications which demand intense graphics performance; these include medical diagnostic equipment.

Specifications

Main Board

- On-board Mobile Intel® QM57 Platform Controller Hub
- Support Intel® Core™ i7-620M PGA processor (2.66GHz, 4M cache)
- Support Intel® Core™ i5-520M PGA processor (2.4GHz, 3M cache)

Main Memory

- 2 x 240-pin memory DIMM, up to 8GB DDR3 800/ 1066MHz SDRAM, un-buffered and non-ECC

I/O Interface-Front

- ATX power on/off switch
- HDD access/ power status LEDs
- Wireless active LEDs
- 2 x antenna holes
- 2 x USB2.0 ports
- 1 x Line-out and 1 x Mic-in
- 1 x HDMI
- 1 x External SIM card holder

I/O Interface-Rear

- 2-Pin remote power on/off switch (support power ignition module)
- 9 ~ 30V DC input
- 1 x PS/2 for keyboard/ mouse
- 1 x DB15 male connector for GPIO (4 x input and 4 x output)
- 1 x DB44 serial port for 4 x RS232 (COM2: RS232/ 422/ 485 with auto flow control)
- 2 x GbE LAN ports

- 4 x USB2.0 ports
- 1 x DB15 VGA port
- 1 x DVI-D port
- 1 x Speaker-out and 1 x Mic-in

Storage

- 2 x 2.5" HDD driver bay (support 1 x 2.5 HDD with hot swap)

Communications

- WAL: through mini-PCIe for optional 3G/ 3.5G/ GSM module
- WLAN: through mini-PCIe for optional Wi-Fi module (either one)
- GPS: through internal COM for GPS module

Expansion

- 1 x PCIe x1 slot for ANPR/ LPR video capture card
- 1 x mini-PCIe socket for 3G/ Wi-Fi (Depend on SKU# selected)

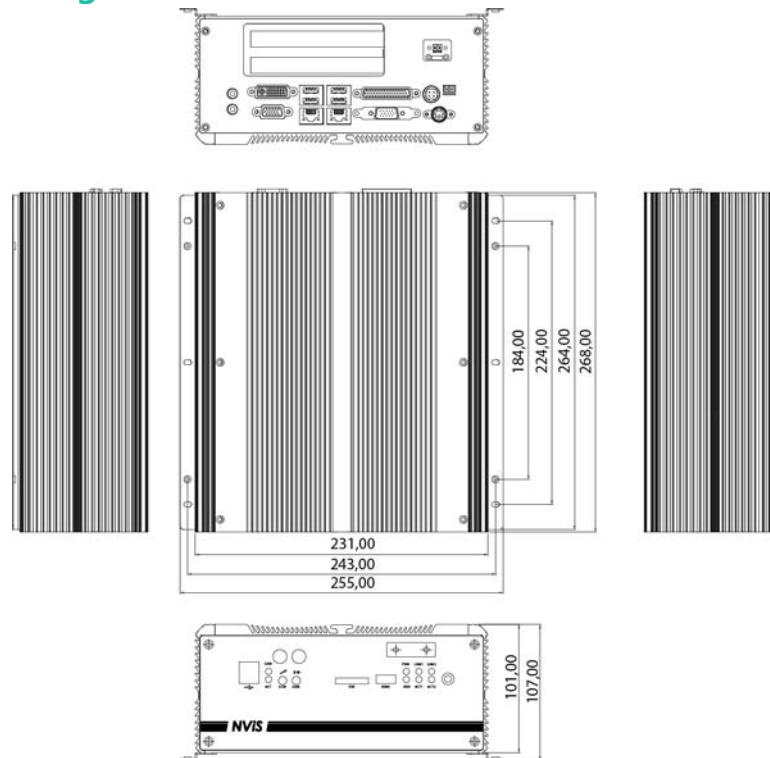
Dimensions

- 235mm (W) x 268mm (D) x 101mm (H)

Construction

- Aluminum chassis

Dimension Drawing



Environment

- Operating Temperature:
- Ambient with air flow: -5°C ~ 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% to 93% (non-condensing)
- Vibration (random): 2g@5~500 Hz with SSD; 1g@5 ~ 500 Hz with HDD(in operation)
- Vibration: STD-810F-514.5 C3 -Composite wheeled vehicle (SSD with vibration kit)

Certifications

- CE approval
- FCC Class A
- e13 Mark

Ordering Information

- ♦ **NViS 3542 (P/N: 10C00354202X0) RoHS Compliant**
ANPR/LPR Mobile NVR Surveillance System with Intel® Core™ i7/ i5 processor, 1 x PCIe slot, WWAN supported
- ♦ **NViS 3542W (P/N: 10C00354205X0) RoHS Compliant**
ANPR/LPR Mobile NVR Surveillance System with Intel® Core™ i7/ i5 processor, 1 x PCIe slot, WLAN supported

Optional Accessories

- ♦ **Anti-vibration kit (P/N: 88C00354002X0)**
- ♦ **9~36VPower ignition module NISKIG120 (P/N: 10JIG12000X0)**



Main Features

- Support Intel® Core™ i7/ i5 Socket Processor
- Mobile Intel® QM57 PCH
- Dual Intel® Gigabit Ethernet Ports
- Dual VGA/ DVI or VGA/ HDMI or DVI/ HDMI Display
- 3 x RS-232 and 1 x RS-232/ 422/ 485 with auto flow control
- On-board DC to DC Power Design to Support 9V to 30V DC Power Input
- Support ATX power mode and PXE/WoL
- 4 x PoE ports (3542P4) / 8 x PoE ports (3542P8)
- Support 3G/ Wi-Fi/ GPS communications

Product Overview

Utilizing 32nm Intel® Core™ i7/ i5 processor, NViS 3542P series features Intel® Turbo Boost and Intel® Hyper-Threading technologies (2 cores, 4 threads), as well as on-processor graphics and two DDR3 800/ 1066 memory modules up to 8GB. In addition, NViS 3542P series provide optional 4 or 8 PoE ports which support IEEE802.3af and allows up to 16.8W maximum per port, a wide variety of display I/O configurations and rich I/O interfaces including two Intel® GbE Ethernet ports, 5 x COM ports, 6 x USB, 8 x GPIO, 2 x SATAII, 2 x eSATA, audio interfaces. NViS 3542P is designed for a broad range of applications which demand intense graphics performance; these include medical diagnostic equipment.

Specifications

Main Board

- On-board Mobile Intel® QM57 Platform Controller Hub
- Support Intel® Core™ i7-620M PGA processor (2.66GHz, 4M cache)
- Support Intel® Core™ i5-520M PGA processor (2.4GHz, 3M cache)

Main Memory

- 2 x 240-pin memory DIMM, up to 8GB DDR3 800/ 1066MHz SDRAM, un-buffered and non-ECC

I/O Interface-Front

- ATX power on/ off switch
- HDD access/ power status LEDs
- Wireless active LEDs
- 2 x antenna holes
- 2 x USB2.0 ports
- 1 x Line-out and 1 x Mic-in
- 1 x HDMI
- 1 x External SIM card holder

I/O Interface-Rear

- 2-Pin remote power on/off switch (support power ignition module)
- 9~30V DC input
- 1 x PS/2 for keyboard/ mouse
- 1 x DB15 male connector for GPIO (4 x input and 4 x output)
- 1 x DB44 serial port for 4x RS232 (COM2: RS232/ 422/ 485 with auto flow control)
- 2 x GbE LAN ports

- 4 x USB2.0 ports
- 1 x DB15 VGA port
- 1 x DVI-D port
- 1 x Speaker-out and 1 x Mic-in
- 4-port PoE (IEEE802.3af-16.8W per port) NViS 3542P4
- 8-port PoE (IEEE802.3af-16.8W per port) NViS 3542P8

Storage

- 2 x 2.5" HDD driver bay (NViS 3542P4, support 1 x hot-swappable)
- 2 x 2.5" Internal HDD driver bay (NViS 3542P8)

Communication

- WAN: through mini-PCIe for optional 3G/ 3.5G/ GSM module
- WLAN: through mini-PCIe for optional Wi-Fi module (either one)
- GPS: through internal COM for GPS module

Expansion

- 1 x mini-PCIe socket for 3G/ Wi-Fi (Depend on SKU# selected)

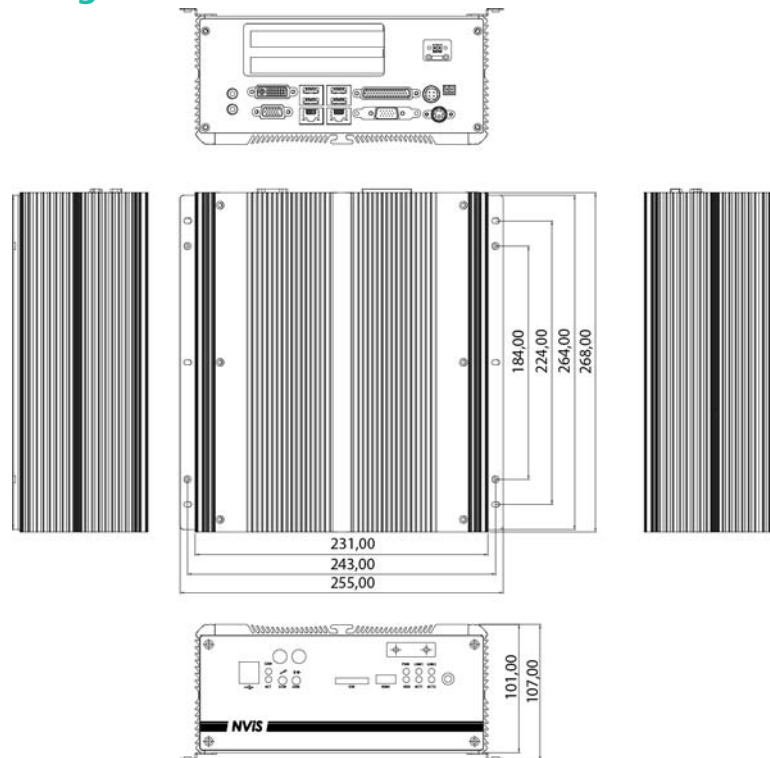
Dimensions

- 235mm (W) x 268mm (D) x 101mm (H)

Construction

- Aluminum chassis

Dimension Drawing



Environment

- Operating Temperature:
- Ambient with air flow: -5°C ~ 55°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C ~ 80°C
- Relative humidity: 10% to 93% (non-condensing)
- Vibration (random): 2g@5~500 Hz with SSD; 1g@5~500 Hz with HDD (in operation)
- Vibration: STD-810F-514.5 C3- Composite wheeled vehicle (SSD with vibration kit)

Certifications

- CE approval
- FCC Class A
- e13 Mark

Ordering Information

♦ NViS 3542P4 (P/N: 10C00354201X0) RoHS Compliant

In-vehicle Mobile NVR surveillance system with Intel® Core™ i7/ i5 and 4 PoE ports, WWAN supported

♦ NViS 3542P8 (P/N: 10C00354200X0) RoHS Compliant

In-vehicle Mobile NVR surveillance system with Intel® Core™ i7/ i5 and 8 PoE ports, WWAN supported

♦ NViS 3542WP4 (P/N: 10C00354204X0) RoHS Compliant

In-vehicle Mobile NVR Surveillance System with Intel® Core™ i7/ i5 and 4 PoE ports, WLAN supported

♦ NViS 3542WP8 (P/N: 10C00354203X0) RoHS Compliant

In-vehicle Mobile NVR Surveillance System with Intel® Core™ i7/ i5 and 8 PoE ports, WLAN supported

Optional Accessories

- ♦ Anti-vibration kit (P/N: 88C00354002X0)
- ♦ 9~36V Power ignition module NISKIG120 (P/N: 10JKIG12000X0)

NViS 5240

4 Bay, Tower NVR with Intel® Atom™ D2550 Processor



Main Features

- ♦ Built-in Intel® Atom™ D2550 Dual Core 1.86GHz Processor
- ♦ 4 x 2.5" HDD Tray for 2T or Above Video Data
- ♦ Dual Local Display by (VGA+HDMI)
- ♦ 2 x Intel® Gigabit Ethernet

Product Overview

The NVR NViS 5240 is equipped with an Intel® Atom™ D2550 processor in compact design for retail or SBM applications. Incorporating an all-in-one embedded server board, NViS 5240 provides high quality digital recording, real-time display and supports a wide range of megapixel IP cameras.

Specifications

Main Board

- ♦ On-Board Intel® Atom™ D2550 Processor Dual Core 1.86Ghz

Main Memory

- ♦ 2 x DDR3 1067MHz SODMIM socket, up to 4G

Platform Control Hub

- ♦ Intel® ICH10R

I/O Interface-Front

- ♦ HDD access/ power status LEDs
- ♦ 2 x USB2.0 ports

I/O Interface-Rear

- ♦ 2 x Intel® 82574L GbE ports
- ♦ 4 x USB2.0 ports
- ♦ 1 x DB15 VGA port
- ♦ 1 x HDMI
- ♦ 1 x eSATA
- ♦ 1 x RS232
- ♦ 2 x PS/2 for keyboard and mouse
- ♦ Power on/ off switch
- ♦ 1 x Speaker-out/ Mic-in

Expansions

- ♦ 1 x PCI ExpressX4
- ♦ 1 x mini-PCIe (either one w/ PCIe)

Storage

- ♦ 4 x 3.5" HDD removable driver bay
- ♦ 1 x SATA DOM for OS (optional)

Power Input

- ♦ 200W ATX power supply AC 100V to 240V

Dimensions

- ♦ 200mm(W) x 250mm(H) x 303mm(D)

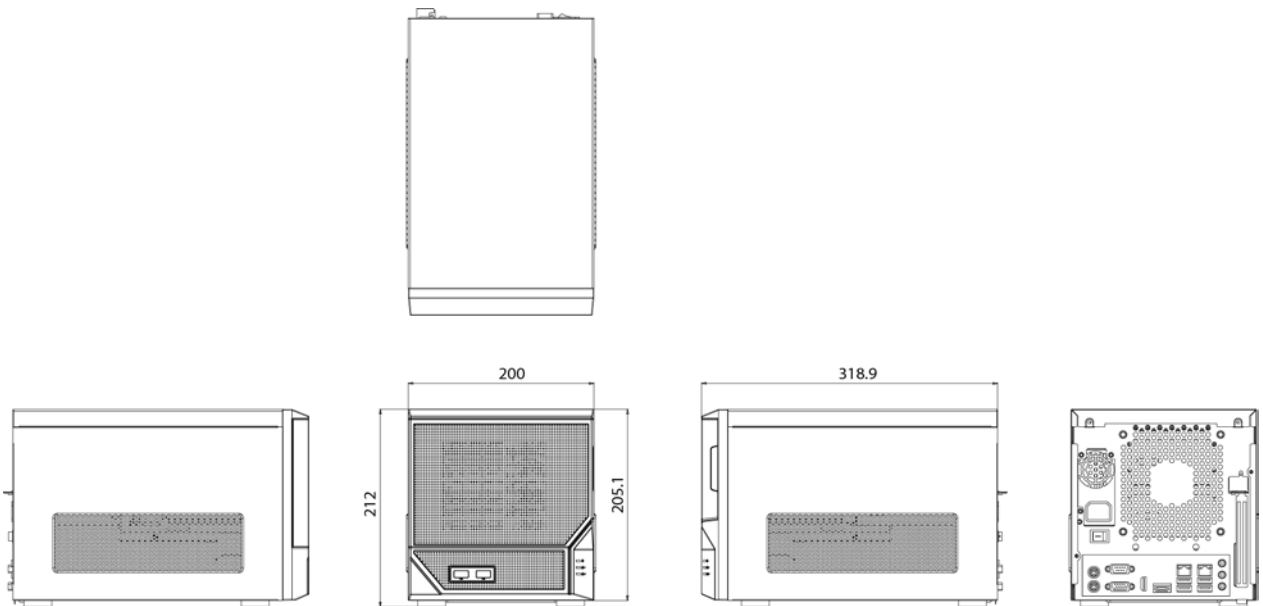
Environment

- ♦ Operating Temperature:
Ambient with air flow: 0°C to 45°C
- ♦ Storage temperature: -20°C to 80°C
- ♦ Relative humidity: 10% to 90% (non-condensing)

Certifications

- ♦ CE approval
- ♦ FCC Class A

Dimension Drawing



Ordering Information

- **NViS 5240 (P/N: 10C0524000X0) RoHS Compliant**
4 bay, Tower NVR with Intel® Atom™ D2550 Processor w/ Win7
Embedded, VMS bundled

NViS 6210

2U, Rack 32CH Hybrid DVR
with Intel® Core™ i3/ i5/ i7 Desktop Processor



Main Features

- ♦ 2U Rackmount Hybrid DVR with BNC Connectors Published
- ♦ Support Intel® Core™ i3/ i5/ i7 Desktop Processor
- ♦ Video Decoder (TW6816) Chips On-board
- ♦ Up to 32 CH 960/ 900FPS@D1 Display & Recording
- ♦ 8 x 3.5" Hot-Swappable HDD Trays
- ♦ Dual Local Display by (VGA+DVI), (VGA+ HDMI) or (DVI+HDMI)
- ♦ 2 x Intel® Gigabit Ethernet/ Support Intel® AMT 7.0 for Remote Management
- ♦ 1 x PCIe x16 Slot, Support SATA3.0, RS232/422/485
- ♦ SDK support (Windows platform)

Product Overview

The NViS 6210 hybrid DVR is equipped with an Intel® Core™ i3/ i5/ i7 processor. Incorporating an all-in-one embedded server board and video chips on-board, NViS 6210 provides high quality digital recording on 32-channel D1 resolution, real-time display (NTSC 720 x 480, PAL 720/ 576) and SDK supported.

Specifications

Main Board

- ♦ NEX 882

CPU Support

- ♦ Intel® Core™ i7 2600 desktop processor (8M cache 3.4 GHz, LGA 1155)
- ♦ Intel® Core™ i5 2400 desktop processor (6M cache 3.1 GHz, LGA 1155)
- ♦ Intel® Core™ i3 2120 desktop processor (3M cache 3.3 GHz, LGA 1155)

Main Memory

- ♦ 4 x 240-pin memory DIMM sockets, up to 16GB DDR3 1066/ 1333 MHz SDRAM, un-buffered and non-ECC

Platform Control Hub

- ♦ Intel® Q67

Capture Chip

- ♦ 8 x Techwell 6816 video decoder chip on-board (32CH)
- ♦ 4 x Techwell 6816 video decoder chip on-board (16CH)

I/O Interface-Front

- ♦ Power on/ off switch
- ♦ HDD access/ power status LEDs
- ♦ 2 x USB2.0 ports

I/O Interface-Rear

- ♦ 2 x GbE ports
- ♦ 4 x USB2.0 ports
- ♦ 1 x DB15 VGA port
- ♦ 1 x DVI-D port
- ♦ 2 x DVI port for video and audio input
- ♦ 1 x HDMI port
- ♦ 1 x speaker-out and 1 x Mic-in/ Line-in
- ♦ 32CH BNC connectors
- ♦ 1 x RS232/ 1 x RS232/ 422/ 485 (internal)

Expansions

- ♦ 1 x PCIe x16 (internal use)
- ♦ 1 x mini-PCIe (internal use)

Storage

- ♦ 8 x 3.5" Hot-Swappable HDD Trays

Cooling System

- ♦ 2 x 80mm fan for system cooling
- ♦ 1 x copper heatsink with fan for CPU cooling

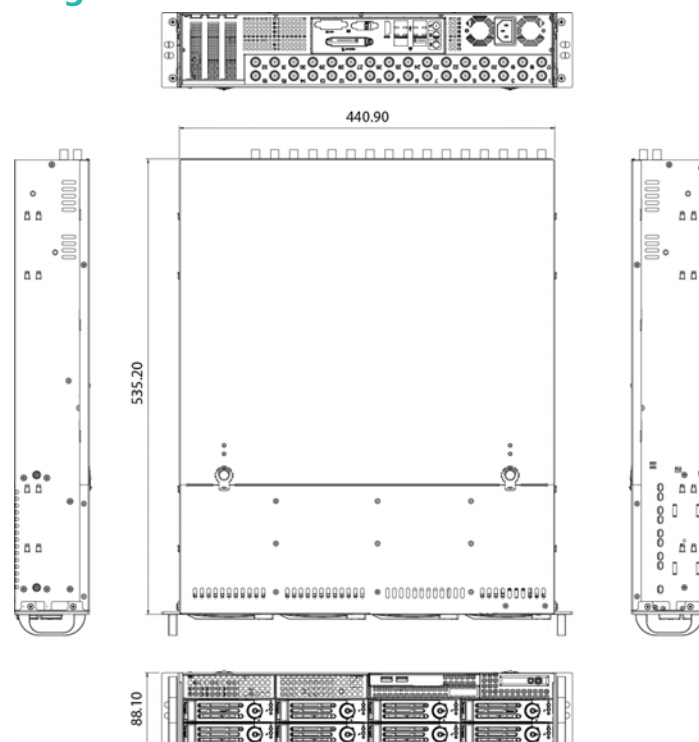
Power Input

- ♦ 600W ATX power supply AC 100V to 240V

Dimensions

- ♦ 535.2mm(D) x 440.9mm(W) x 88.1mm(H)

Dimension Drawing



Construction

- 2U rackmount, heavy-duty steel chassis

Environment

- Operating Temperature:
Ambient with air flow: 0°C to 45°C
- Storage temperature: -20°C to 70°C
- Relative humidity: 10% to 90% (non-condensing)

Certifications

- CE approval
- FCC Class A

Digital Video Specifications

Product	NViS6210-16CH	NViS6210-32CH
Video Input	16	32
Audio Input	16	32
Video Format (Display)	NTSC	PAL
	YUY2	
	720 × 480 × 30FPS	720 × 576 × 25FPS
	640 × 480 × 30FPS	640 × 576 × 25FPS
	720 × 240 × 30FPS	720 × 288 × 25FPS
	640 × 240 × 30FPS	640 × 288 × 25FPS
Video Recording	NTSC	PAL
	S/W MPEG4 or S/W H.264	
	720 × 480 × 30FPS	720 × 576 × 25FPS
	640 × 480 × 30FPS	640 × 576 × 25FPS
	720 × 240 × 30FPS	720 × 288 × 25FPS
	640 × 240 × 30FPS	640 × 288 × 25FPS
Audio Format	MONO/ 8- 16BITS / 8000- 48000HZ	
I/O	Yes (optional)	
SDK	VC++/.NET/ BCB / VB/ V4L2	

Ordering Information

- **NViS 6210-16 (P/N: 10C0621000X0) RoHS Compliant**
2U, 16CH hybrid DVR with Intel® Core™ i3/ i5/ i7 processors
- **NViS 6210-32 (P/N: 10C621001X0) RoHS Compliant**
2U, 32CH hybrid DVR with Intel® Core™ i3/ i5/ i7 processors



Main Features

- ♦ 2U Rackmount NVR with 1x PCIe x16 Expansion Slots Available
- ♦ Support Intel® Core™ i3/ i5/ i7 Desktop Processors
- ♦ 8 x 3.5" Hot-Swappable HDD Trays
- ♦ Dual Local Display by (VGA+DVI), (VGA+ HDMI) or (DVI+HDMI)
- ♦ 2 x Intel® Gigabit Ethernet/ Support Intel® AMT 7.0 for Remote Management
- ♦ 1 x PCIe x16 slot, support SATA 3.0, RS232/422/485

Product Overview

The NVR NViS 6220 is equipped with an Intel® Core™ i3/ i5/ i7 processor. Incorporating an all-in-one embedded server board, the NViS 6220 provides high quality digital recording on high-resolution IP cameras.

Specifications

Main Board

- ♦ NEX 882L

CPU Support

- ♦ Intel® Core™ i7 2600 desktop processor (8M cache 3.4 GHz, LGA 1155)
- ♦ Intel® Core™ i5 2400 desktop processor (6M cache 3.1 GHz, LGA 1155)
- ♦ Intel® Core™ i3 2120 desktop processor (3M cache 3.3 GHz, LGA 1155)

Main Memory

- ♦ 4 x 240-pin memory DIMM sockets, up to 16GB DDR3 1066/ 1333 MHz SDRAM, un-buffered and non-ECC

Platform Control Hub

- ♦ Intel® Q67

I/O Interface-Front

- ♦ Power on/ off switch
- ♦ HDD access/ power status LEDs
- ♦ 2 x USB2.0 ports

I/O Interface-Rear

- ♦ 2 x GbE ports
- ♦ 4 x USB2.0 ports
- ♦ 1 x DB15 VGA port
- ♦ 1 x DVI-D port
- ♦ 1 x RS232/ 1 x RS232/ 422/ 485 (internal)
- ♦ 1 x HDMI
- ♦ 1 x Speaker-out/ 1 x Line-in and 1 x Mic-in

Expansion Slot

- ♦ 1 x PCIe x16 (internal use)
- ♦ 1 x mini-PCIe (internal use)

Cooling System

- ♦ 2 x 80mm fan for system cooling
- ♦ 1 x copper heatsink with fan for CPU cooling

Power Input

- ♦ 600W ATX industrial-grade power supply
- ♦ AC 100V to 240V

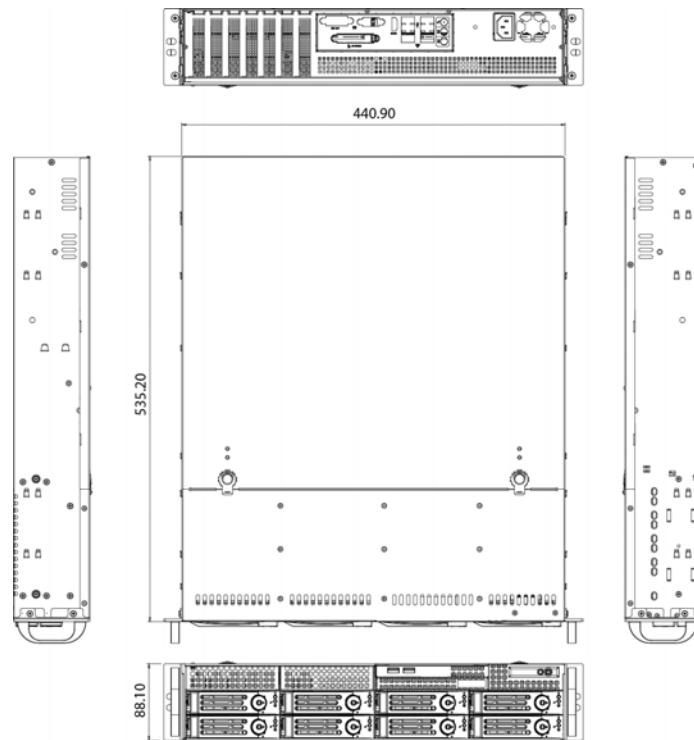
Dimensions

- ♦ 535.2mm(D) x 440.9mm(W) x 88.1mm(H)

Construction

- ♦ 2U rackmount, heavy-duty steel chassis

Dimension Drawing



Environment

- ♦ Operating Temperature:
Ambient with air flow: 0°C to 45°C
- ♦ Storage temperature: -20°C to 70°C
- ♦ Relative humidity: 10% to 90% (non-condensing)

Certifications

- ♦ CE approval
- ♦ FCC Class A

Ordering Information

- ♦ **NViS 6220 (P/N: 10C0622000X0) RoHS Compliant**
2U, NVR with Intel® Core™ i3/ i5/ i7 processors



Main Features

- ♦ 4U 19-inch rackmount standard
- ♦ Supports Intel® Core™ i7/ i5 Quad Core processors
- ♦ Four DDR3 DIMM Sockets, up to 16GB DDR3 1066/ 1333 MHz SDRAM
- ♦ Dual Intel® Gigabit Ethernet ports
- ♦ 6 x USB2.0 / 1 x VGA/ 1 x DVI-D
- ♦ 4 x PCIe expansion slots
- ♦ 6 x 3.5" SATA HDD bays for external
- ♦ Supported up to 8-channel HDcctv

Product Overview

NEXCOM expands its security surveillance offerings to HDcctv with NViS 8480. Powered by Intel® Core™ i7/ i5 Quad Core processors with C206 chipset, NViS 8480 is able to display and playback Full HD videos through 8 channels. In addition, the storage capacity NViS 8480 holds can be as large as 12TB when all of its six 3.5" SATA HDDs are utilized, offering massive storage capacity with good value.

Specifications

Main Board

- ♦ NEX 880

CPU Support

- ♦ Intel® Desktop Core™ i7 2600 Quad Core processor (3.4 GHz, LGA 1155)
- ♦ Intel® Desktop Core™ i5 Quad Core processor (2.6 GHz, LGA 1155)

Main Memory

- ♦ 4 x 240-pin memory DIMM sockets, up to 16GB DDR3 1066/ 1333 MHz SDRAM, un-buffered and non-ECC

Platform Control Hub

- ♦ Intel® Q67

I/O Interface-Front

- ♦ 6 x 3.5" external HDD tray
- ♦ 4 x USB 2.0 ports
- ♦ System status LEDs

I/O Interface-Rear

- ♦ AC 100V to 240V input
- ♦ 1 x VGA DB-15 connector
- ♦ 1 x DVI-D port
- ♦ 4 x USB 2.0 ports
- ♦ 1 x Speaker-out / 1 x Line-in and 1 x Mic-in
- ♦ 2 x COM port

Storage

- ♦ 6 x 3.5" SATA HDD driver bay

Expansion

- ♦ 1 x PCIe x8
- ♦ 1 x PCIe x4
- ♦ 1 x PCIe x1
- ♦ 1 x PCIe x1

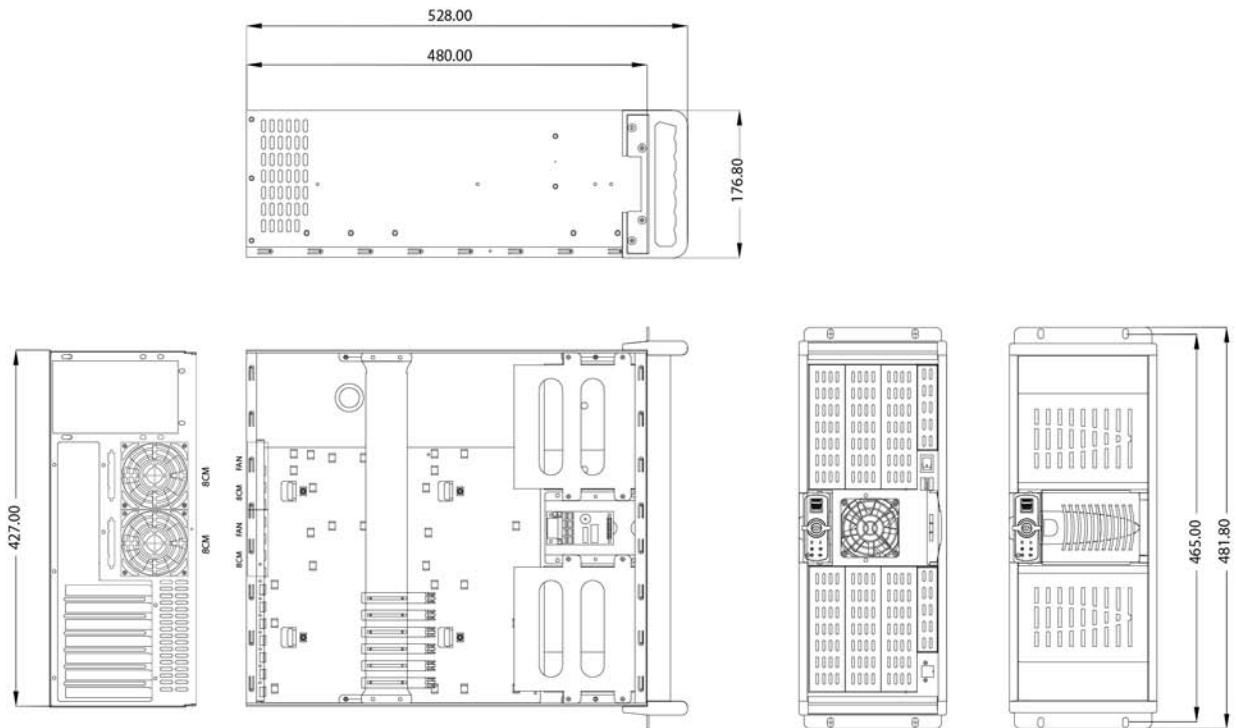
Dimensions

- ♦ 427mm (W) x 480mm (D) x 176mm (H)

Construction

- ♦ 4U rackmount, heavy-duty steel chassis

Dimension Drawing



Environment

- ♦ Operating Temperature:
Ambient with air flow: 0°C - 45°C
(According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- ♦ Storage temperature: -20°C - 70°C
- ♦ Relative humidity: 10% - 90% (non-condensing)

Certifications

- ♦ CE approval
- ♦ FCC Class A

Ordering Information

- ♦ **NViS 8480 (P/N: 90C00848000X0) RoHS Compliant**
4U HDcctv Security Surveillance System with 2nd Generation Intel® Core™ i7/ i5 Processor
- ♦ **Optional HDcctv capture card (P/N: 757CAPT004X00)**
Live data-4ch HD software compression card

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