

nuuo[®]



Trusted Video Management

Driven by Simplicity

2016 Product Catalog

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NUUO At A Glance

Committed to Customers
Service for Today and Tomorrow

A Partner

Market Approved
Stands the Test of Time

A Value Creator

Unified Platform
One Platform for all Your Security Devices

A System Provider



MISSION STATEMENT

NUUO is an independent manufacturer of video surveillance products serving our global customer needs through award winning industry innovations, solution based system approaches, and putting forth a trusted staff of professionals.

Fostering a cross cultural environment that respects diversity in the work space stimulates a creative atmosphere to generate a fair return for our investors and to finance continued growth and development in quality products.

NUUO INC. PROFILE

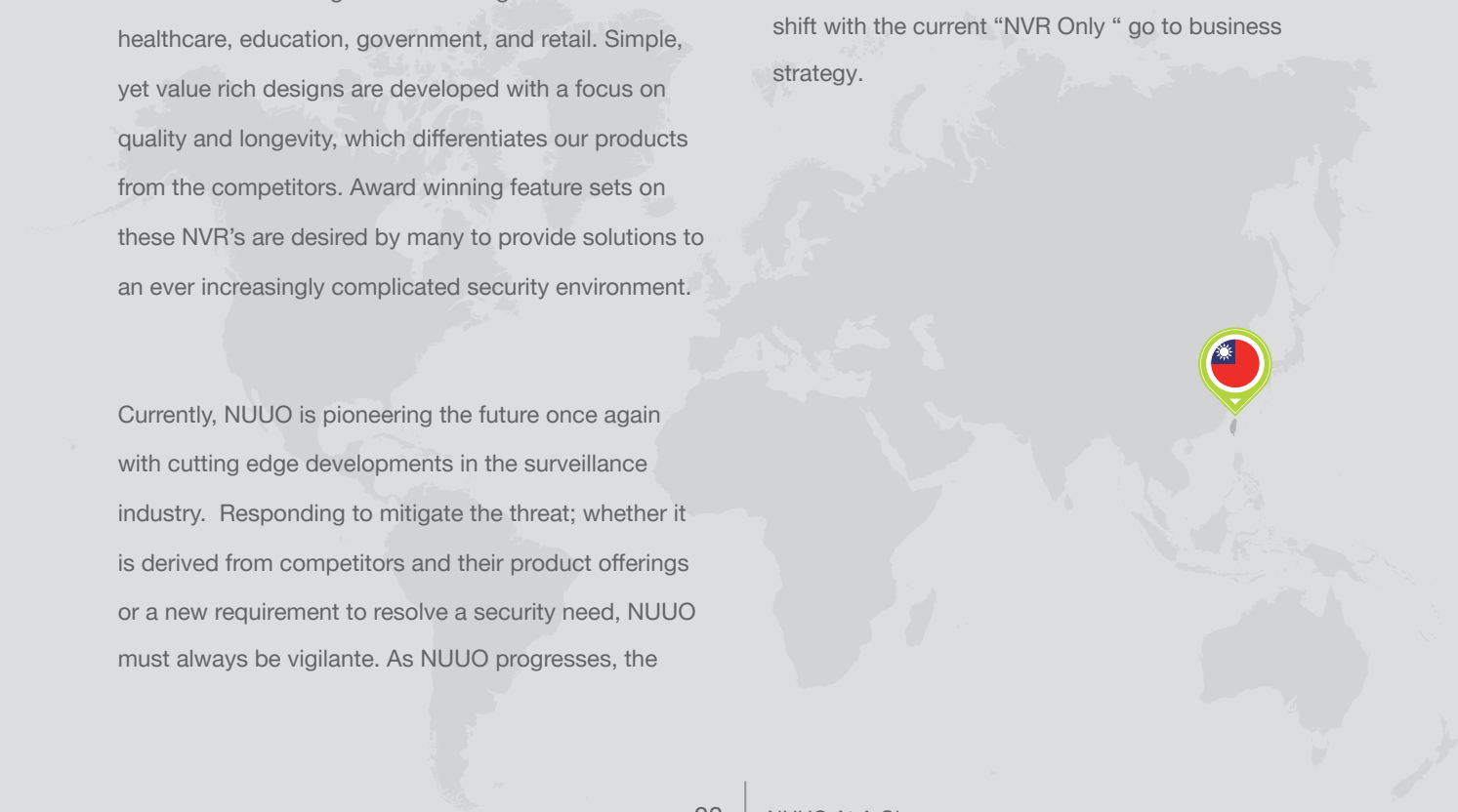
NUUO Inc. is a global security industry leader in the manufacturing of open architecture video surveillance products. Established in 2004, NUUO has grown from a small startup company with only three employees that developed the concept of building a PC based Network Video Recorder. At that time, analog cameras were the predominate product of choice, and the IP cameras were just entering the surveillance marketplace. This initiated the development of one of the industry's first Hybrid NVR's that could integrate both analog and IP cameras on the same server.

The NUUO global headquarters, located in Taipei, Taiwan manages a brand that is now recognized in over 100 countries. NUUO offers a world-wide support network of security professionals, with a regional branch offices located in the United States and South Africa in conjunction with the field representatives based in Europe, India, Asia, Latin America and the China.

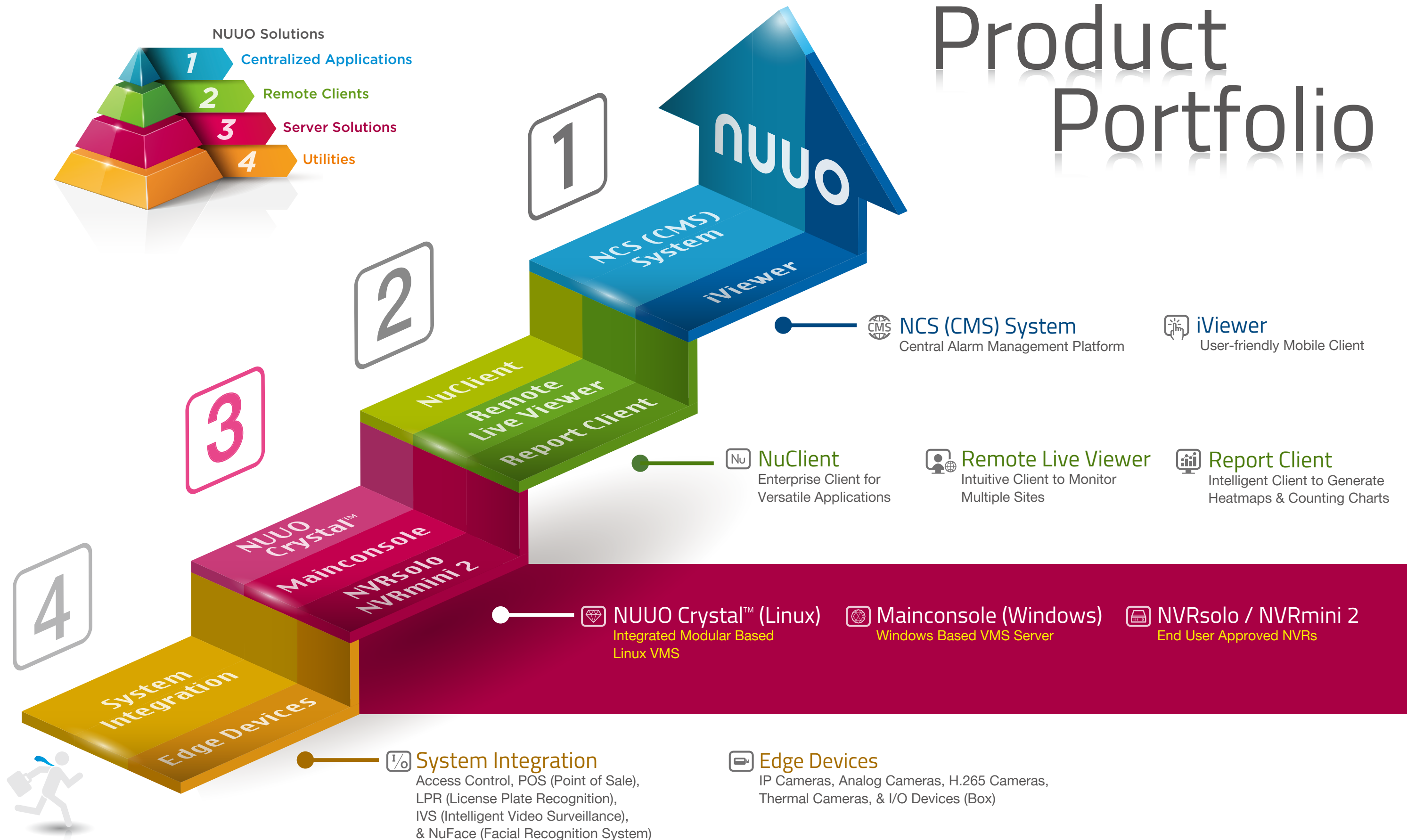
NUUO is an innovative company. With close to 200,000 system deployments worldwide and an ever growing base of professional industry experienced staff. NUUO NVR products can be found throughout a diverse array of vertical market segments including but not limited to healthcare, education, government, and retail. Simple, yet value rich designs are developed with a focus on quality and longevity, which differentiates our products from the competitors. Award winning feature sets on these NVR's are desired by many to provide solutions to an ever increasingly complicated security environment.

Currently, NUUO is pioneering the future once again with cutting edge developments in the surveillance industry. Responding to mitigate the threat; whether it is derived from competitors and their product offerings or a new requirement to resolve a security need, NUUO must always be vigilante. As NUUO progresses, the

focus is evolving from just a "NVR manufacturer" by positioning the company as an "End to End Video Solution provider". All of these things will be tied together with a unified Client software platform to bring forth some extraordinary feature sets that will result in a shift with the current "NVR Only " go to business strategy.



Product Portfolio



Solution Matrix

Products					
Recording Solutions	 NUUO NVRmini 2	 NUUO NVRsolo	 NUUO Mainconsole	 NUUO Titan NVR	 NUUO Crystal™
All-in-One License ¹					
Software Upgrade	◆	◆	◆	◆	◆
Remote Tech Support Utility	◆	◆	◆	◆	◆
Unlimited Remote Client Connections	◆	◆	◆	◆	◆
Hardware Specification					
Server OS	Linux Embedded	Linux Embedded	Windows	Linux Embedded	Linux Embedded
Style(s)	Tower	Tower/ Rack	Desktop/ Rack	Tower/ Rack	Tower/ Rack/ VM
Camera Channels	Up to 16	Up to 16	Up to 96* ²	Up to 64	Up to 64
SD Analog Inputs	By Video Server	By Video Server	64	By Video Server	By Video Server
HD Analog Inputs	-	-	16	-	-
Number of Drives	2 & 4	2 & 8	Depends on HW* ²	4 & 8	4 & 8
Max Internal Total Storage	8TB & 16TB	8TB & 32TB	Depends on HW* ²	24TB & 64TB	24TB & 64TB
NUUO External Storage	-	-	Available Q4 2016	-	◆ (NFS)
3 rd External Storage	DAS	DAS	DAS/ iSCSI	DAS/ iSCSI	DAS/ iSCSI
Live View Connections per Server	64	64	192	128	320
Local Configuration	-	◆	◆	-	-
Monitor Spot-out	-	◆	◆	◆	◆
Failover	-	-	◆	-	◆
Level of Implementation					
Megapixel Recording Performance	2bay: 40Mbps 4bay: 80Mbps	1bay: 60Mbps 2bay: 80Mbps 8bay: 80Mbps	Depends on HW; Up to 430Mbps	250Mbps	4bay: 250Mbps 8bay: Up to 550Mbps
Centralization	Live view; Playback; Alarm management* ³	Live view; Playback; Alarm management* ³	Live view; Playback; Alarm management* ³	Live view; Playback	Live view; Playback; Alarm management; Central configuration
Matrix (Video Wall)	By CMS	By CMS	By CMS	-	By NuClient
Supported Browser(s)	Windows: IE/ Chrome MAC: Safari* ⁴	Windows: IE/ Chrome MAC: Safari* ⁴	IE	IE/ Firefox	IE/ Firefox
MAC Client	-	-	-	◆	◆
H.265 Decode	-	-	◆	-	Available H1 2016
E-map	◆	◆	◆	◆	◆
I/O Control	◆	◆	◆	◆	◆
Event/ Alarm Control	◆	◆	◆	◆	◆

Product					
Recording Solutions	 NUUO NVRmini 2	 NUUO NVRsolo	 NUUO Mainconsole	 NUUO Titan NVR	 NUUO Crystal™
Special Feature					
Automatically Switch Stream Profile	◆	◆	◆	◆	◆
Simultaneously Switch Stream Profile for View	◆	◆	◆	◆	◆
Image Fusion	-	-	-	◆	◆
360° PTZ (ImmerVision)	◆	◆	◆	◆	◆
NUUO Fisheye Dewarp	◆* ⁵	◆* ⁵	◆	◆	◆
NUUO Adjustable Dewarp	-	-	◆	-	◆
Command Chain	-	-	-	◆	-
RTSP Streaming Output	-	Available H1 2016	◆	-	-
Thumbnail in Playback	-	Available H1 2016	-	-	◆
Device Group	◆* ⁶	◆* ⁶	◆* ⁶	-	◆
P2P Service (ezNUUO)	-	◆	◆* ⁶	-	-
Dual Record	◆	◆	◆	-	-
IVS (Intelligent Video Surveillance)	-	-	◆	-	◆* ⁷
Diagnostic Service	-	-	◆	-	◆
Vivtek Smart Stream Support	◆	◆	◆	◆	◆
Camera Edge Record	-	-	◆	-	-
User Specific Views	-	-	-	◆	◆
View Tour	With CMS	With CMS	With CMS	◆	◆
Active Directory	-	-	◆	-	-
POS (Point of Sale)	◆	◆	◆	-	◆
LPR (License Plate Recognition)	-	-	◆	-	◆
Access Control	-	-	◆	-	◆
Remote Configuration	◆	◆	◆	◆	◆
Boosting Record	-	-	◆	-	◆
Privacy Mask	Edge	Edge	Edge/ Server	Edge	Edge
Smart Search	◆	◆* ⁸	◆	◆	◆
Embedded Motion Detection	-	◆	◆	-	-

¹ Recording Failover, Advanced IVS, POS, LPR and Access Control connections are not included.
² Software base. For server recommendation, please refer to <http://www.nuuo.com/nucalculator/>
³ Supported by CMS.
⁴ POS configuration, auto-switch stream profile and two-way audio are only available in IE.
⁵ Available on remote display.

⁶ Available on client application only.
⁷ Available on v3.1 and above version.
⁸ Available on web client only.

Vertical Solutions

Retail Hypermarket & Shopping Mall

Adaptive to Various Environments



Open Platform

- 3rd party camera integration
- Hybrid system for easy transition

Data Mining & Display

- Heatmap report to show ROI for every product
- Counting report to analyze business peak

Intelligent People Traffic Management

- Analyze business peak
- Instant alarm for counting event

360° Panorama Monitoring

- Fisheye dewarping for multiple cashiers

Retail Chain Store

Adaptive to Various Environments



Central Management

- CMS matrix to pop-up event in your store

Remote Monitoring

- Easy setup on mobile device & laptop

Health Monitoring

- Automatic detection of recording interruption

POS Integration Solutions (Multilingual)

- Video overlay multilingual transaction data
- Quick search video by abnormal sales record

City Surveillance

Scalable Video Monitoring Platform



Ensure Continuous Recording

- Failover mechanism on both server and HDD
- Camera edge recording backup
- OnGuard for system instant reboot

Large Storage Capacity

- Supports H.265 & H.264 for bandwidth control
- Large external storage capacity

Easy Integration

- SDK & API available

Intelligent Tracking

- PTZ triggered by NUUO IVS

Industrial

Plant Management Platform



Central Alarm Platform

- Smoke detection
- Automatically controlled gates, audible/ visual devices

Staff & Vehicle Control

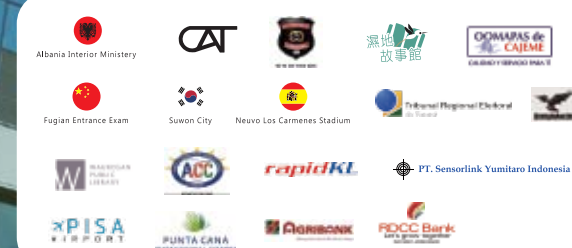
- Facial recognition
- Access control integration
- Dwell & direction trigger

Diversified Hardware Options

- Dedicated turnkey NVR hardware
- VMware support
- Digital I/O support

Comprehensive Panorama Monitoring

- Software controlled Image Fusion to create a panorama view using standard cameras





NUUO Clients

Central Video Management



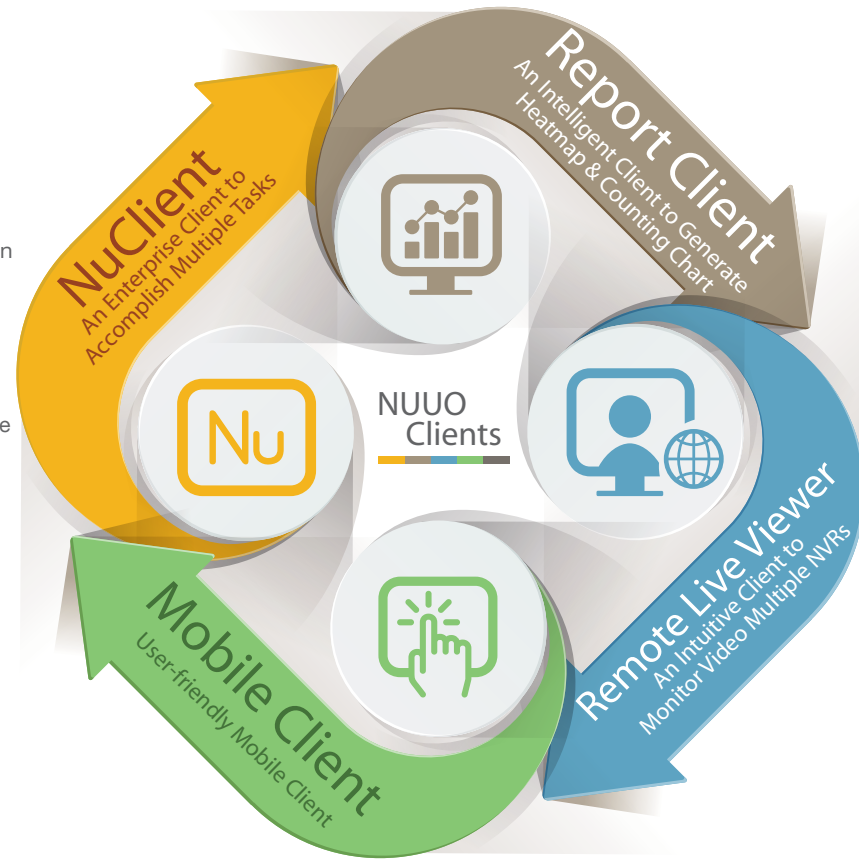
NuClient

System Management

- Unlimited security device management
- Centralized video management & configuration
- Centralized I/O and Event Panel
- Manages up to 400 channels of live view
- Unlimited channels of NuMatrix (video wall)
- Unlimited channels of NuMatrix (video wall)
- NTP date/ time synchronization
- Interconnects to NUUO Titan and Mainconsole

Advanced Attributes

- Customizable Layout Wizard for video display options
- Diagnostic Service
- System Navigator service
- NUUO Image Fusion Technology
- Advanced IVS (Intelligent Video Surveillance)
- Generic Dewarp Technology to process all types of fisheye-warp video
- Instant Playback on live view, e-map, and event list
- Intelligent search in playback
- View Tour to loop through selected views



Report Client

System Management

- Multiple servers support
- 10 different customizable reports
- Cross browsers

Advanced Attributes

- Metrics
- Heatmap support
- Spot check in report
- Data comparison
- Counting reporting to multiple client workstations



Remote Live Viewer

System Management

- Cross multiple server units and types: Mainconsole, NVRsolo, and NVRmini 2
- Centralized I/O and Event Panel
- Supports up to 192 channels of live view

Advanced Attributes

- Server & Camera group
- Integrator friendly user interface & configuration
- Instant playback when live viewing
- Diagnostic Service
- Metadata search
- Joystick support



Mobile Client

- Supports NUUO Crystal™, Mainconsole, NVRsolo, and NVRmini 2
- Supports iOS and Android
- Digital I/O event trigger
- Push event
- Live view snapshot



NUUO CMS

Alarm Management



Scalable Alarm Monitoring

- Supports over 2,000 camera models*1
- Scalable Matrix (video wall)
- Displays up to 64 channels per Matrix (video wall)
- Supports advanced & embedded video analytics
- Supports Windows Active Directory
- Supports recording server failover for operation persistence
- Auto backup

Global System Management

- Manages recordings, alarms, and status of devices
- Supports multiple alarm types and video analytic events
- Advanced search tool for alarms and metadata transactions
- Intuitive UI support unlimited e-map layers to visualize device location
- Various viewing scenario choices: View Tour, Camera Tour, Grid Tour, and Alarm Tour
- Built-in remote desktop tool

Custom Authority Levels

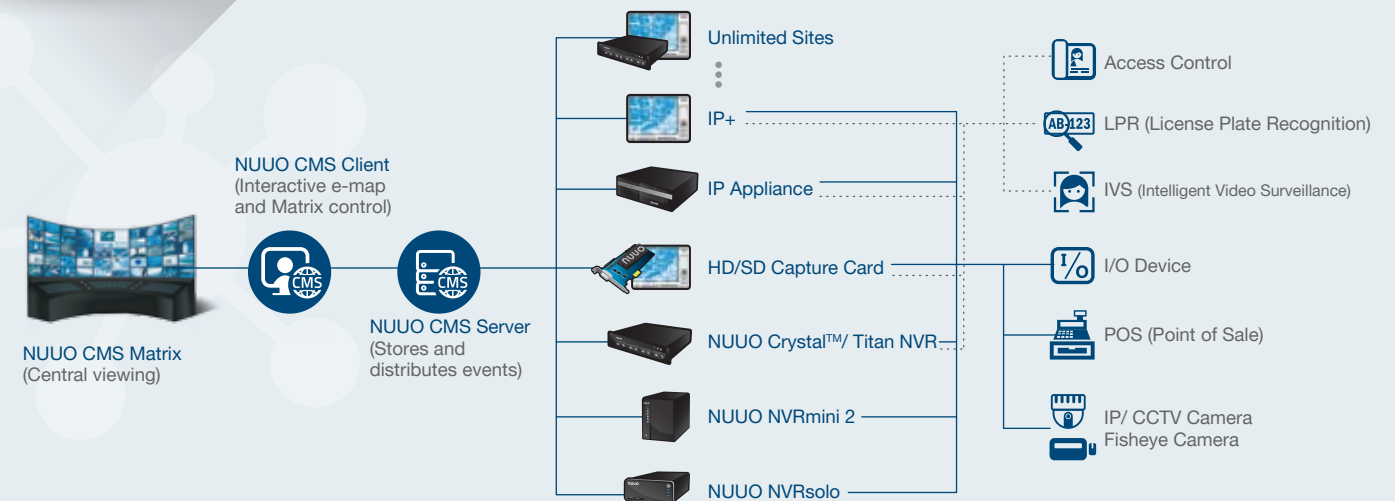
- Multiple authority levels to define owners, priorities, and actions
- Pre-defined system management
- Supports users and user groups with independent privileges and access time coverage

Multiple Client Services

- Server login authentication
- Single platform application with multiple user logins to manage alarm events
- Simultaneous live view and playback stream management through multiple clients



Centralized Applications



LICENSE TYPE

License	Part Name	Description
Base	NCS-BASE	NUUO CMS Base license includes 48 cameras + 8 I/O licenses
Camera	NCS-CN-CAM	NUUO CMS Connection - Camera, include 1 lincese of camera connection
I/O	NCS-CN-IO	NUUO CMS Connection - I/O, include 1 lincese of I/O connection
POS (Point of Sale)	NCS-CN-POS	NUUO CMS Connection - POS, include 1 lincese of POS connection
Access Control	NCS-CN-AC	NUUO CMS Connection - Access Control, include 1 license of Acess Control connection
IVS (Intelligent Video Surveillance)	NCS-CN IVS	NUUO CMS Connection - IVS (UDP camera edge IVS), include 1 license of IVS connection*2
LPR (License Plate Recognition)	NCS-CN-LPR	NUUO CMS Connection - LPR, include 1 license of LPR connection

*1. Supported by Device Pack of NUUO Server Solutions.
 *2. No additional license required for NUUO IVS.



NUUO Crystal™

A More Hardware-software Integrated VMS (Linux)

Software Upgrade Included

Windows/ Mac Client | Browser | Mobile Apps



Server Solutions



- Available server form factors - Tower, Rackmount: 1U, 2U, 3U, and 4U*¹
- "NuStation" for powerful client viewing and Matrix (video wall)*¹
- An interactive "NUUO Project Calculator" to assist in presales support
- Efficient system design, installation, and server cost

Integrator Approved

- System event response includes two system events and 3 action types
- Alarm event response includes 9 recording events and up to 6 action types
- Responses to event abnormalities include 3 device events and up to 7 action types
- Advanced IVS (Intelligent Video Surveillance) and event types: Counting, Presence, Abandoned Object, Tamper Detection...etc.
- Automatically send IVS (Intelligent Video Surveillance) reports
- Camera network failover
- Supports camera edge motion detection

Event Notification

- Supports over 1,200 camera models
- Multiple codec support: H.265, H.264, MJPEG, MPEG4, and MxPEG
- Generic Fisheye Dewarping and calibration tool for all single lenses 360° cameras (Fisheye)
- Dewarp processing supported by GPU and not CPU
- ImmerVision and 3rd party fisheye cameras are supported by panoramic 360° PTZ
- Thermal imaging cameras are supported by IVS (Intelligent Video Surveillance) analytics
- ONVIF interoperability
- Supports multiple streaming profile
- Bandwidth control by auto-switching stream profiles
- Stitch up to 10 independent cameras together to create a panoramic view by using NUUO Image Fusion

Camera Diversity

High Reliability

- Linux Operating System
- System Health monitoring, logging, and reporting
- Supports RAID 0, 1, 5, and 10
- Redundant power supply capability
- Automatic hardware and software Watchdog reset
- False alarm reduction algorithm
- FTP automatic backup system
- Recording failover and Volume Group

Unlimited Scalability

- Unlimited task specific servers connected to a single management server
- Unlimited scalability for video wall applications using "NuMatrix"
- Recording failover*²
- Modular design to enhance the connectivity of advanced features: Access Control, IVS (Intelligent Video Surveillance), LPR (License Plate Recognition), POS (Point of Sale), and Metadata

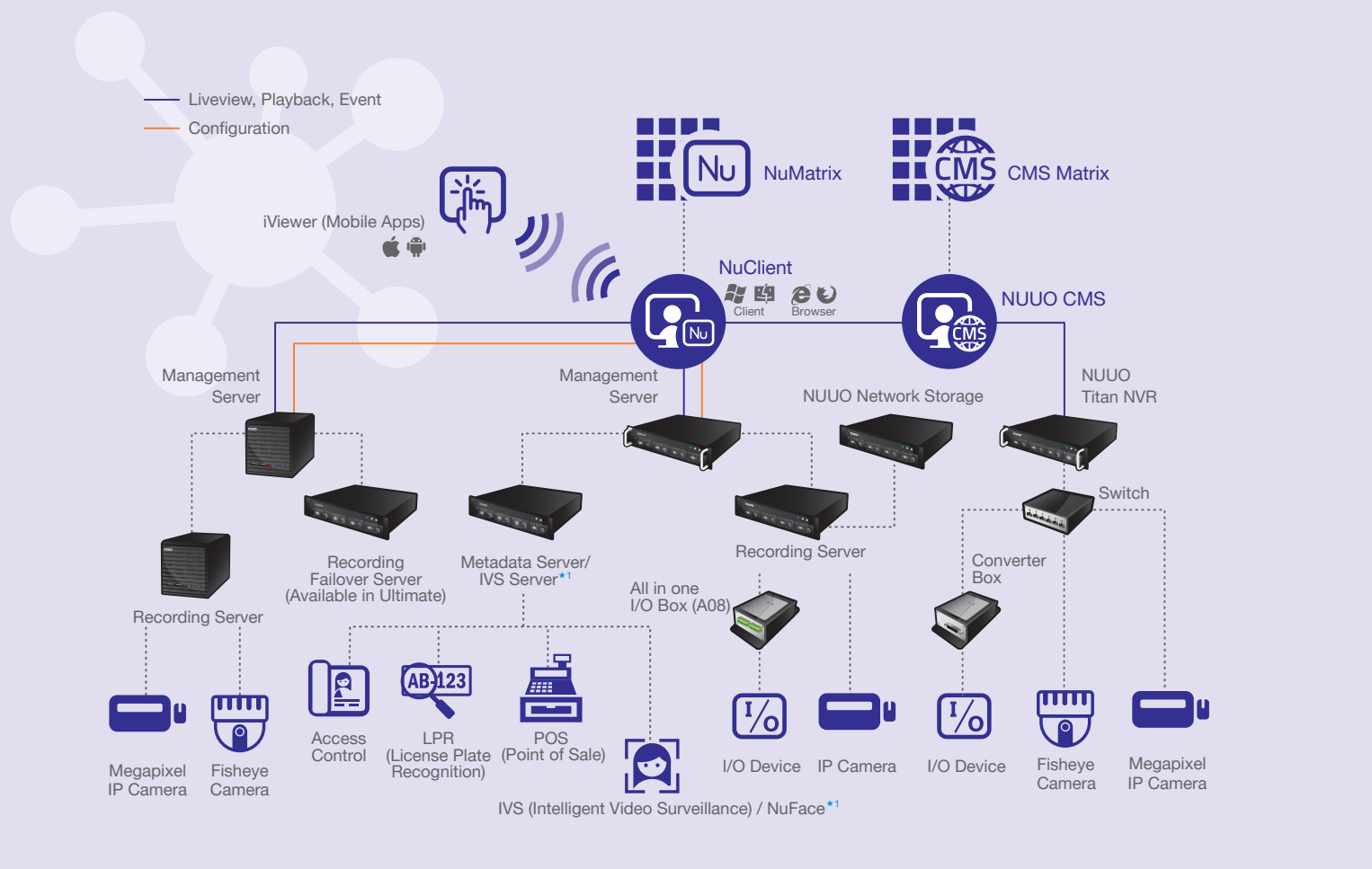
Operation Efficiency

- Instant playback in "Liveview"
- Event and motion search in "Playback"
- Thumbnail views in "Playback Timeline"
- Multiple playback options
- Snapshot in "Liveview" and "Playback"
- Multiple text data overlays on individual camera views
- Event driven resolution control utilizing Boosting Record
- Graphical floor plan interface powered by e-map
- NuMatrix (video wall) configuration with automated camera touring
- Optimum hard drive recording efficiency using File Ring Technology*³
- Simultaneously export and or backup multiple videos
- Device group

Central Management

- Remote system configuration and viewing through the NuClient platform
- Centrally managed system wide firmware updates and license control*⁴
- "System Navigator" allows Enterprise level control of multiple management servers
- A single unified client software to manage both legacy and current generation of products
- System wide time synchronization with NTP in management servers
- Centralized I/O and event notification capability
- Advanced authority level control for custom permission and user privileges
- Volume Group structure

¹ Available in Q2 2016.
² Available in Ultimate.
³ Available in Enterprise.
⁴ Available in NUUO Crystal™.



LICENSE TYPE

License	Part Name	Description
Ultimate	CT-CAM-ULT CV-CAM-ULT*2	NUUO Crystal™ Ultimate camera license, recording server failover support
Enterprise	CT-CAM-ENT CV-CAM-ENT*2 *3	NUUO Crystal™ Enterprise camera license, NuMatrix (video wall) support
Professional*3	CT-CAM-PRO	NUUO Crystal™ Professional camera license, 3 rd party available, Individual Retention Condition support
Titan Expansion	NT-TITAN-UP	Titan NVR IP license
Upgrade (Enterprise → Ultimate)	CT-CAM-UPU CV-CAM-UPU*2	Easily upgrade camera license without resetting the whole system
Upgrade (Professional → Enterprise)	CT-CAM-UPE	Easily upgrade camera license without resetting the whole system
POS (Point of Sale)	CT-POS-Generic	Integration License of POS device connection
Access Control	CT-ACC-Generic	Integration License of Access Control system connection
LPR (License Plate Recognition)	CT-LPR-GENERIC	Integration License of LPR system connection

*1. For NUUO IVS and NUUO NuFace, please check P22 for more information.
 *2. Pure NUUO Crystal™ Software on VMware vSphere.
 *3. Not available in North America.

SPECIFICATION

Product Image				
Type	Tower	Rack-mount 1U	Rack-mount 2U	
Model Name	TR-0400CT TR-0404NT	R1-0400CT R1-0404NT	CT-8000R CT-8000ES** *5	NT-8040R CT-8000RP CT-8000ES-RP** *5 NT-8040RP
Recording Throughput	250 Mbps (MAX.), 150 Mbps (OPTIMAL)		CT Series: 250 Mbps (1 Volume Group) 400 Mbps (2 Volume Group) 550 Mbps (3 Volume Group) NT Series: 250 Mbps	
Number of Live View	CT Series: 4ch per View, View tour to 64ch		16ch per View, View tour to 64ch	
Spot-out (Local display)	NT Series: 1ch per View, View tour to 64ch			
CPU Model	Intel			
Number of Drives	4 x SATA III		8 x SATA III	
Max. Storage Per Drive*4	6TB		8TB	
Max. Internal Total Storage*5	24TB		64TB	
Server OS	Linux Embedded			
RAID Level	RAID 0, 1, 5, 10			
I/O Interface	2 x USB 2.0 (for mouse, UPS); 1 x USB 3.0; 1 x eSATA (for DAS); 1 x VGA; 1 x HDMI		2 x USB3.0; 2 x USB2.0 (for mouse, UPS); 1 x eSATA (for DAS); 1 x VGA; 1 x DVI	
LAN	2 x Gigabit Ports, RJ45			
LAN Transmission Speed	10/ 100/ 1000 Mbps			
Voltage	100 ~ 240V			
Power Consumption	Full loading: 50W Max.: 250W	Full loading: 150W Max.: 500W	Full loading: 160W Max.: 500W (Redundant Power)	
Dimension (H x W x D)	212 x 200 x 318 mm	45 x 447 x 429 mm	88 x 447 x 583 mm	88 x 447 x 583 mm
Weight (Without Drive)	5.3 kg (11.7 lbs)	6.0 kg (13.2 lbs)	11.4 kg (25.1 lbs)	13.2 kg (29.1 lbs)
Temperature (Operating with HDD)	0°C ~ 40°C (32°F ~ 104°F)			
Humidity (Operating)	5% ~ 95%			
Network File Protocol	-	-	NFS	- NFS -
Compatible NVR	-	-	NUUO Crystal™ (above v 3.0.0)	- NUUO Crystal™ (above v 3.0.0) -
Hardware Watchdog	-	-	Yes	- Yes -
Supported Languages	Czech, Chinese (Simplified), Chinese (Traditional), English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Spanish, Swedish, Thai, Turkish			

*4. Refer NUUO website for hard drive compatibility list: http://www.nuuo.com/SupportCamera.php?node_id=12#
 *5. Version below v3.0 (not including v3.0), the maximum size of volume cannot exceed 16TB.
 *6. Refer NUUO website for Performance Report: <http://www.nuuo.com/DownloadDetail.php?id=0193>



NUUO Mainconsole

A More Surveillance Featured VMS (Windows)

Software Upgrade Included



Server Solutions



- Software based solution can be installed on any Windows based PC
- Ideal for Analog to IP transition projects. Supports both camera types within the same server

Hardware Flexibility

- Supports a standalone configuration with connections for a monitor, a keyboard, and a mouse
- Modular Software Design for Access Control, LPR (License Plate Recognition), and POS (Point of Sale) 3rd party integrations
- Embedded and advanced (optional) video analytics capabilities

All-encompassing Solutions

- Central alarm monitoring of critical on site events

Central Alarm Management

- Complimentary PC-based, web-based, and mobile application software
- Simultaneous multi-site PC-based and mobile application
- E-map & I/O control for multiple servers

Intuitive Multi-site Clients

Bandwidth Control

- Customizable streaming profiles for different live view options
- Supports multi-stream camera profiles
- Supports video transcoding

Advanced Attributes

- Windows Active Directory
- Dual password authentication
- Failover recording sever
- Automatic hardware and software Watchdog reset
- FTP automatic backup
- Edge storage retrieval
- Security scramble view and privacy mask
- Metadata recording, displaying, and report generator

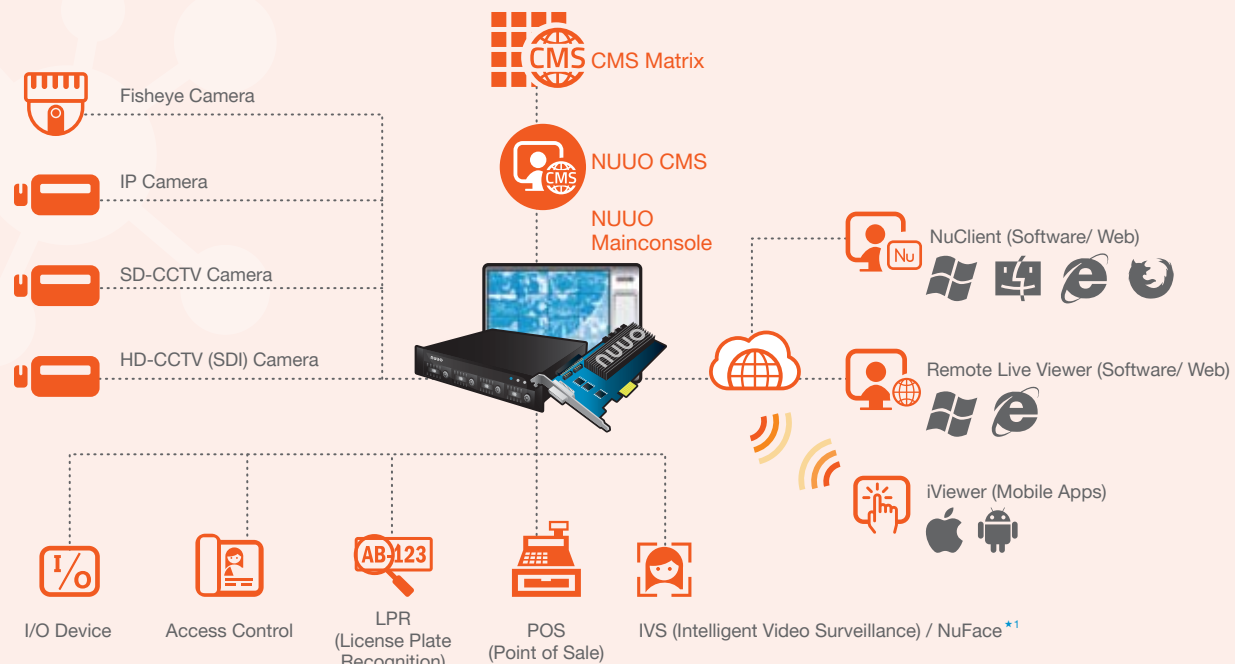
Hard Drive Saving

- Stores 2 video streams with different resolutions, frame rates, formats, and recording modes
- Variable camera retention rates
- 5 recording modes: Always Record, Motion Record, Event Record, Boosting Record, and Edge Record

Automatically Discover Problems and Respond

- Video analytics to support 14 event profiles with 10 action types





SPECIFICATION IP Appliance

Product Image			
Model Name	CT-8000IP-P-25	CT-8000IP-P-32	CT-8000IP-P-36
Type	Rack-mount 2U		
Embedded License	25ch	32ch	36ch
CPU	Intel		
Server OS	Windows 7 Ultimate 64bit		
Number of Drives	7 x SATA II		
Max. Storage Per Drive	4TB		
Max. Internal Total Storage	28TB		
Recording Throughput	Up to 250Mbps		
I/O Interface	2 x USB 3.0 ; 2 x USB 2.0 ; 1 x eSATA (For DAS)		
LAN	2 x Gigabit Ports, RJ45		
LAN Transmission Speed	10/ 100/ 1000 Mbps		
Voltage	100 ~ 240V		
Power Consumption	Full loading: 160W ; Max.: 500W		
Dimensions (H x W x D)	88 x 447 x 583 mm		
Weight (Without HDD)	13.2 kg (29.1 lbs)		
Temperature (Operating with HDD)	0° C ~ 40°C (32°F ~ 104°F)		
Humidity (Operating)	5% ~ 95%		
3 rd Party Support	POS (Point of Sale), Access Control, and LPR (License Plate Recognition)		
External I/O Box	External I/O box SCB-A08 (RS-485 to RJ-45)		
Supported Languages	Albania, Bulgarian, Chinese (Simplified), Chinese (Traditional), Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Portuguese (Portugal), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Vietnamese		

LICENSE TYPE

License	Part Name	Description
IP+	SCB-IP+ 01 ~ 64	1 ~ 64ch IP Plus Digital Surveillance System license(s)
	SCB-IP-P-F	Failover Server Connection License for 1 Mainconsole Server
	SCB-IP-P-Bridge	IP Bridge Function License with SCB-IP+ 01 license for 1 Mainconsole Server
IVS (Intelligent Video Surveillance)	SCB-IP-P-IVS 01/ 04	1/ 4ch Integration License(s) for IVS (UDP camera edge IVS)*1
LPR (License Plate Recognition)	SCB-IP-P-LPR 01/ 04	1/ 4ch Integration License(s) for LPR system connection
Access Control	SCB-IP-P-AC 01/ 04	1/ 4ch Integration License(s) for Access Control system connection
POS (Point of Sale)	SCB-IP-P-POS 01/ 04	1/ 4ch Integration License(s) of TCP/ IP based POS device
	SCB-C31A-US POS 01	RS232 to Ethernet Converter with 1 POS License

SPECIFICATION

H.264 Hardware Compression Capture Card SCB 6000S / 7000S Series

Product Image						
Model Name	SCB-6004S	SCB-7004S	SCB-6008S	SCB-7008S	SCB-6016S	SCB-7016S
Video/ Audio Inputs	4/ 4		8/ 8		16/ 16	
Max. Cards Per Server	4		4		4	
Display Rate (NTSC/ PAL)	120/ 100 fps		240/ 200 fps		480/ 400 fps	
Recording Rate [CIF] (NTSC/ PAL)	120/ 100 fps	-	240/ 200 fps	-	480/ 400 fps	-
Recording Rate [D1] (NTSC/ PAL)	30/ 25 fps	120/ 100 fps	60/ 50 fps	240/ 200 fps	120/ 100 fps	480/ 400 fps
Power Consumption	7W		8W		9W	
Video Resolution	NTSC: 176 x 120, 352 x 240, 704 x 480 ; PAL: 176 x 144, 352 x 288, 704 x 576					
Dimensions (W x H)	188 x 121 mm					

*1. For NUUO IVS and NUUO NuFace, please check P.22 for more information.

Hybrid Appliance

Product Image	
Model Name	NH-4500-ENT
CPU	Intel
Max. Channels	64
Capture Card	SCB-6000S, SCB-7000S, SCB-7100, SCB-8000 Series
Recording Performance	Please use our online calculator tool for estimation: http://www.nuuo.com/nucalculator/
Server OS	Windows 7 Professional 64 bit/ Windows 7 Ultimate 64 bit
Compression	H.264, MPEG-4, MJPEG, MxPEG (Depends on IP camera)
Remote Clients	Remote Live Viewer (Software), Remote Live Viewer (Web), iViewer (Mobile Apps)
Remote Client OS	Windows 2008/ XP (32-bit)/ Vista (32-bit)/ 7/ 8/ 8.1 (32 and 64-bit)
Mobile Client Platforms	iPhone, iPad, Android
HDD Bays	6 bays
External Storage	iSCSI
LAN	2 x Gigabit Ports, RJ45
External Ports	2 x USB 3.0 ; 4 x USB 2.0
Audio	Two-way
Voltage	100 ~ 240V
Power Consumption	400W
Dimensions (H x W x D)	177 x 482 x 502 mm
Weight (Without HDD)	17.6 kg (38.8 lbs)
Temperature (Operating with HDD)	0° C ~ 40°C (32°F ~ 104°F)
Humidity (Operating)	5% ~ 95%
3 rd Party Support	POS (Point of Sale), Access Control, and LPR (License Plate Recognition)
External I/O Box	External I/O box SCB-A08 (RS-485 to RJ-45)
Supported Languages	Albania, Bulgarian, Chinese (Simplified), Chinese (Traditional), Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Portuguese (Portugal), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkish, Vietnamese



NUUO NVRsolo & NVRmini 2

Software Upgrade Included



SPECIFICATION NUUO NVRsolo

Product Image			
Type	2-bay		
Model Name	NS-2040	NS-2080	NS-2160
Max. Number of Licenses	16	16	16
Base Licenses	4	8	16
Video Output	HDMI or VGA		
Output Resolution	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768		HDMI: Max. 1920 x 1080 (4K through future firmware upgrade) VGA: Max. 1920 x 1080
Decoding Capacity	120fps @1080p or 240fps @720p (H.264/ MPEG4 ; MJPEG/ MxPEG is with limited support)		480fps @1080p or 120fps @4K (H.264/ H.265)
Recording Performance	80 Mbps		200 Mbps
Server OS	Linux Embedded		
Compression	H.265, H.264, MPEG4, MJPEG, MxPEG (depends on IP camera)		
HDD Bays	2 x 3.5" SATA	8 x 3.5" SATA	
RAID Level	0, 1	Single	0, 1, 5, 10 (RAID will decrease Max Throughput)
External Storage	DAS		
Max. Storage Per HDD	6TB		4/ 6TB
Ethernet Ports	5 x USB 2.0	4 x USB 2.0	(Front) 2 x USB 2.0, (Back) 1 x USB 3.0, 1 x USB 2.0
External Ports	2 x Gigabit Ports, RJ-45		
On-Box I/O	0/ 0	16/ 4	4/ 4
Audio	Two-way		Two-way, 1 x RCA Input, 1 x RCA Output
Voltage	DC 12V	AC 100V ~ 240V	
Power Consumption	Full loading: 23W ; Max.: 60W	Full loading: 80W ; Max.: 250W	
Chassis	-	2U 19" rack-mount	
Dimensions (H x W x D)	70.5 x 215 x 260 mm	88.5 x 438 x 442 mm	
Weight (Without HDD)	2.23 kg (4.91 lbs)	9 kg (19.84 lbs)	
Temperature (Operating with HDD)	0° C ~ 40°C (32°F ~ 104°F)		
Humidity (Operating)	5% ~ 95%		
Remote Clients	Remote Live Viewer (Software), Remote Live Viewer (Web), iViewer (Mobile Apps)		
Remote Client OS	Windows XP (32-bit)/ 7 (32 and 64-bit)/ 8 (32 and 64-bit)		
Mobile Client Platforms	iPhone, iPad, Android		
Supported Languages	Chinese (Simplified), Chinese (Traditional), Croatian, Czech, English, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Portuguese (Brazil), Russian, Spanish, Swedish, Thai, Turkish		

End User Approved NVRs

- ezNUUO cloud based login router settings for web and mobile viewing effortless
- Web-based configuration, live viewer and playback

Easy Remote Access

- Complimentary PC-based, web-based, and mobile application software
- Simultaneous multi-site PC-based and mobile application
- Multiple server control using e-map and I/O devices

Intuitive Multi-site Client for Easier Video Management

- Up to 32 embedded channel licenses*1
- Local configuration and display
- Embedded Motion Detection

Economical Recording Solutions

- Supports POS (Point of Sale) and I/O devices
- RAID 0, 1, 5, 10 for maximum data redundancy (NS-8065, NS-8165, and NP-8320)
- Supports multi-stream camera profiles

Powerful Function

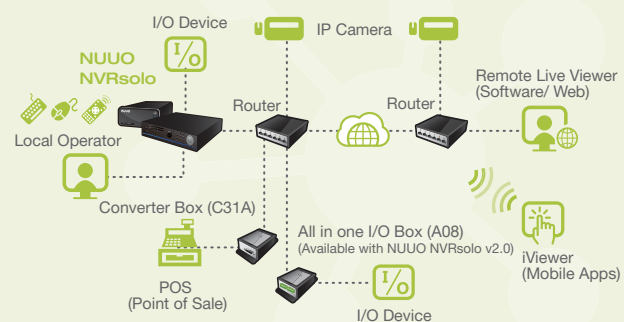
- Central alarm monitoring of critical on site events

Central Alarm Management Software

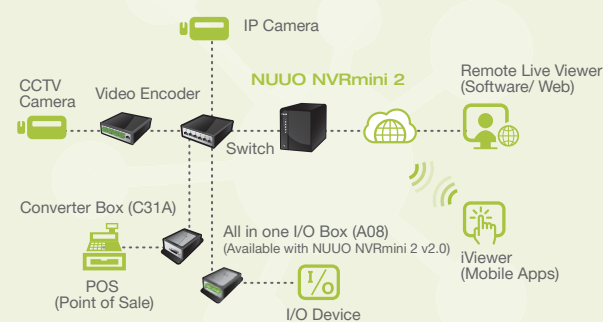
2013 Award



NUUO NVRsolo



NUUO NVRmini 2



LICENSE TYPE

License	Part Name	Description
NVRsolo - Upgrade	NS-SOLO-UP 01/ 02/ 04/ 08/ 10	Upgrade 1/ 2/ 4/ 8/ 10ch more licenses
NVRmini 2 - Upgrade	NE-MINI-UP 02/ 04/ 08*2	Upgrade 2/ 4/ 8ch more licenses
POS (Point of Sale)	SCB-IP-P-POS 01/ 04	1/ 4ch Integration License(s) of TCP/ IP based POS device
	SCB-C31A-US POS 01	RS232 to Ethernet Converter with 1 POS license

*1. Available on NP-8320 only.
*2. NE-MINI-UP-04/ 08 only valid for NE-4080.
*3. Available Q2 2016.

NUUO NVRmini 2

Product Image		
Type	2-bay Tower	
Model Name	NE-2020	NE-2040
Max. Number of Licenses	4	4
Base Licenses	2	4
Recording Performance	40 Mbps	80 Mbps
Server OS	Linux Embedded	
Compression	H.265, H.264, MPEG4, MJPEG, MxPEG (depends on IP camera)	
Remote Clients	Remote Live Viewer (Software), Remote Live Viewer (Web), iViewer (Mobile Apps)	
Remote Client OS	Windows XP (32-bit)/ 7 (32 and 64-bit)/ 8 (32 and 64-bit)	
Mobile Client Platforms	iPhone, iPad, Android	
HDD Bays	2	4
RAID Level	0,1	0, 1, 5, 10
External Storage	N/A	DAS
Ethernet Ports	1 x Gigabit Port, RJ-45	2 x Gigabit Ports, RJ-45
External Ports	2 x USB 2.0	2 x USB 2.0, 1 x eSATA
Audio	Two-way	
Voltage	100 ~ 240V	
Power Consumption	40W	90W
Dimensions (H x W x D)	140.0 x 109.8 x 219.0 mm	140.0 x 183.4 x 219.0 mm
Weight (Without HDD)	2.12 kg (4.67 lbs)	2.97 kg (6.55 lbs)
Temperature (Operating with HDD)	0° C ~ 40°C (32°F ~ 104°F)	
Humidity (Operating)	5% ~ 95%	
Supported Languages	Chinese (Simplified), Chinese (Traditional), Croatian, Czech, Dutch, English, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Portuguese (Brazil), Russian, Serbian, Spanish, Swedish, Thai, Turkish	



NUUO IVS

Intelligent Video Surveillance



- Unified interfaces in both Windows and Linux platforms*1
- Four license levels for different event detection modes
- Works with all video sources and camera manufacturers
- Thermal cameras compatible
- Low CPU consumption
- Low resolution event triggers
- Low frame rate requirements
- Accepts second or third streams from camera
- 3D calibration with accurate event trigger set-up
- Camera location calibration based on site conditions
- Accurate target discrimination
- False alarm reduction through accurate target discrimination*1
- Supports over 11 different event types
- IVS data displayed in playback
- Custom report generation through data analysis*2
- Heatmap report to monitor customer purchasing preferences*2

Adaptable

Efficient Software Design

Versatile Deployment

Operational Efficiency

LICENSE TYPE

Part Number	IVS COUNTING	IVS PRESENCE	IVS SURVEILLANCE	IVS ADVANCED
Number of Detection Zones or Lines	40	40	40	40
People Counting	◆			◆
Tamper Detection	◆	◆	◆	◆
Camera Calibration			◆	◆
Object Classification			◆	◆
Camera Shake Elimination		◆	◆	◆
Presence (Tripwire)		◆	◆	◆
Enter and Exit			◆	◆

Part Number	IVS COUNTING	IVS PRESENCE	IVS SURVEILLANCE	IVS ADVANCED
Appear and Disappear			◆	◆
Dwell			◆	◆
Tailgating			◆	◆
Stop			◆	◆
Direction			◆	◆
Abandoned/Removed Object*3			◆	◆
Heatmap Report*4	◆	◆	◆	◆
Counting Report*4	◆			◆

1. For the system architecture, please refer to NUUO Crystal™ (P.14) and Mainconsole (P.18) product page.
 2. Please refer to NUUO Clients (P.10) for details.
 3. Abandoned/ Removed Object is available with Mainconsole v5.0.22 and above version.
 4. Heatmap/ Counting Report is available with Mainconsole v6.0 and above version.

NUUO NuFace

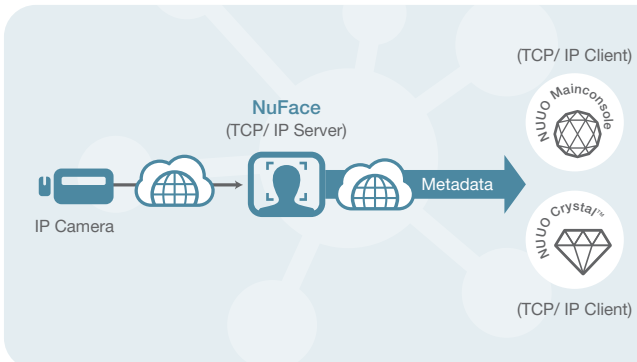
Facial Recognition System



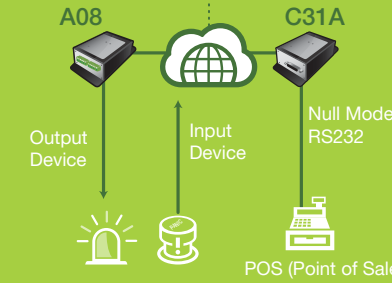
- Unlock doors using Whitelist approval of authorized personnel
- Identify returning customers
- Accurate people counting
- Displays facial recognition result from multiple locations
- Supports Time and Attendance reporting
- Supports Face Scramble
- Precision data collection

LICENSE TYPE

License	Part Name	Description
NuFace	NuFace-P	NuFace license package for Mainconsole/ NUUO Crystal™



Accessories

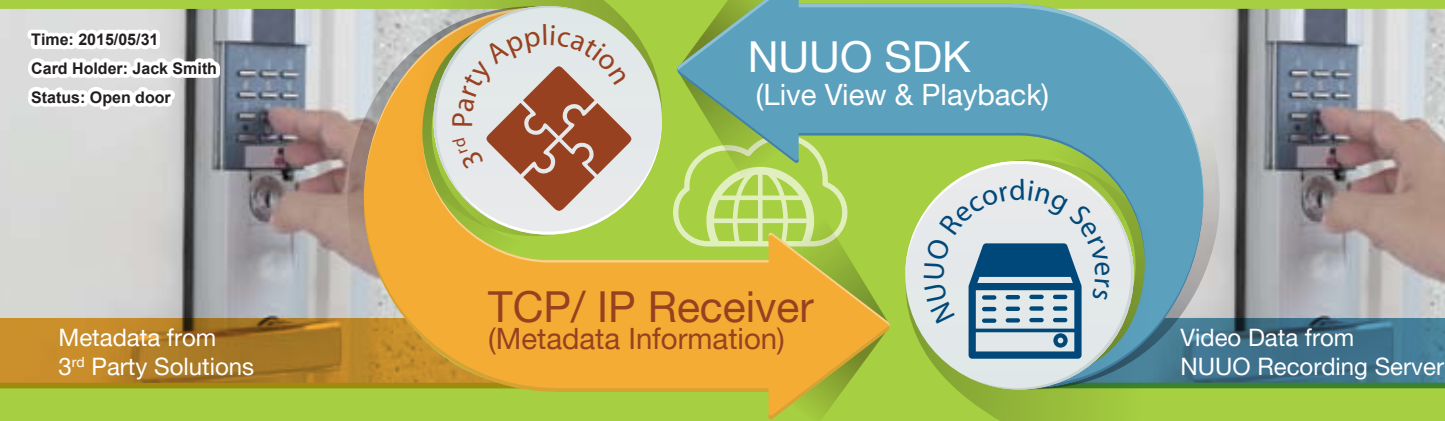


Model Name	SCB-A08	SCB-C31A
Input/ Output	8 x RS485	1 x RS232
Input Signal	Dry contact or wet contact (-30 ~ -3, 3 ~ 30 VDC)	-
Output Signal	Relay	-
DC in	12 ~ 30 V	DC + 9V to + 24V
Power Consumption	3W	3W
Baud Rate	Serial port 1: 9600, Serial port 2: 115200	110 bps to 230.4 kbps
Date Bits	5, 6, 7 or 8	5, 6, 7 or 8
Stop Bits	1, 1.5 or 2	1, 1.5 or 2
Parity	None, Even, Odd, Mark, Space	None, Even, Odd, Mark, Space
Flow Control	-	None, RTX/ CTS, XON/ XOFF, DTR/ DSR
Temperature (Operating)	0 ~ 70°C	-20 ~ 65 °C
Humidity (Operating)	0 ~ 90% (Non-Condensing)	0 ~ 90% (Non-Condensing)
Dimension (W x H x D)	80 x 23 x 115 mm	143 x 28 x 114 mm

Open Innovation Platform

Partnership

NUUO thrives on innovation. By choosing an open platform to work on, NUUO hopes to create a thriving ecosystem full of integration possibilities. Towards this end, NUUO has created many tools for our partners to work with. By selecting one of the following integration options, NUUO products can be made adaptable to handle and exchange information with other existing solutions effortlessly.



Technology & Solution Partners



IP Camera Partners

