SYNTEL
Smart Telereturns

Security & Surveillance Product Portfolio
NEW "NT" SERIES (An Intelligent IP Solution)

ABOUT SYNTEL

- Syntel - The Telecom Division of Arvind Limited is a flagship Company of the Ahmedabad based Lalbhai Group; one of India's most respected industrial houses.

- Syntel, commenced its operations in 1989 as a CDoT (Centre for Development of Telematics) licensee for digital public and private switching equipment, has leveraged its distribution infrastructure in SMB (Small & Medium Enterprises segment offering a range of Voice and Visual communication technology solutions.

- Syntel recently acquired the business of Enkay Technologies aiming MLB undertaking large system integration projects based on Converged Technologies.

ABOUT SYNTEL

- Syntel has more than 4.5 million installed lines in the PBX segment in India and is selling > 50,000 lines every month through a network of 300 + partners and an Enterprise Direct business team of 22+ seasoned professionals spread across the country.

- From a pure voice offering Company, Syntel has evolved and now offers solutions in Enterprise Communication, IT Infra & Automation, AV Integration & Automation and Security & Surveillance space from leading global technology partners like Cisco, Alcatel, NEC & Polycom. Syntel also offers communication solutions under its own brand as Neos, Neos Max, Neos Infinity as well as Security & Surveillance solutions under Syntel brand.

- To add value to & differentiate its offerings, Syntel has invested its own Software Applications Development Team, which offers customized solutions closely integrated with different verticals including ALE.

- Syntel is now poised to offer a complete suite of Voice, Data, Video ,Security & Surveillance solutions through a SINGLE WINDOW for a host of Industry verticals.

ABOUT SYNTEL

- Syntel is TTSL & TTML's exclusive partner for Wireless Telephony Solutions

- Syntel is Airtel's preferred partner for their Digital Telephony Solutions (PRI)

- Syntel also has strategic tie-ups in place with other Voice & Data service providers like Reliance, Vodafone, etc., to offer solutions to customers with specific preferences

ABOUT SYNTEL -Products

ENTERPRISE COMMUNICATION	NEC	Alcatel·Lucent Enterprise	NEOS
SECURITY & SURVEILLANCE	NEOS		
VIDEO CONFERENCE	CISCO	Yealink	
IP Phones	atcom		

NT SERIES PRODUCT PORTFOLIO

Advance Features & Technology Highlights

SYNTEL

Smart Telereturns

Technology Highlight

TVP
Transcendent Video Processing

S⁺265 Codec
Save 50% Storage

Intelligent Coding/Image/Alarm
Ultra low bandwidth
Clear Face Image
Accurate Motion detection for Human Body

Super Starlight
Color: 0.0004Lux

Plugin Free
No ActiveX

Human/Vehicle Classification
Less False Alarm

AEW
Auto-tracking
Early Warning

Panoramic
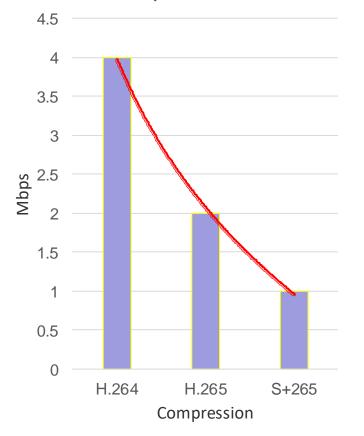180°/360° Panoramic Camera
PTZ Camera

VMS
All in one

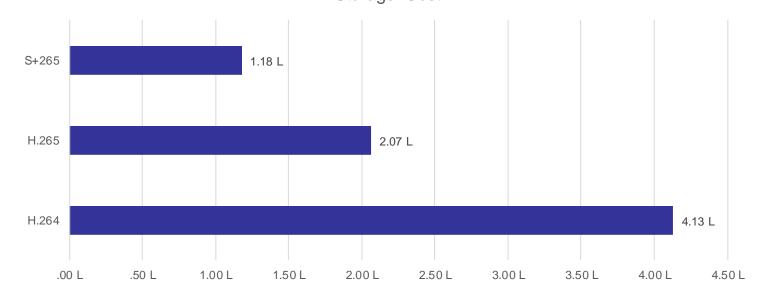**Face Capture**
High Capture Rate

Face Recognition
High Accuracy Full Solution

Compression

Extraordinary S+265 Compression

S+265 is an important Technology with independent intellectual property right, through coding production and sensitive algorithm it reduce the code rate by more than 30% to 40% compared with H.265 and reduce the code rate by more than 70% to 80% than h.264 to achieve the purpose of saving bandwidth and storage space.

Compression

Storage Cost

Compression	Resolution	Bitrate	Camera	Backup Required	Storage in TB	Number of 10TB HDD	Cost of HDD
H.264	2MP 1080P	4Mbps	100	30 days	133 TB	14	413000
H.265	2MP 1080P	2Mbps	100	30 days	67TB	7	206500
S+265	2MP 1080P	1Mbps	100	30 days	34TB	4	118000

Note Each HDD cost consider as Rs. 29500/-

Image Quality

SYNTEL
Smart Telereturns

Super Starlight Series

Highly sensitive star-lever sensor , in combination with time and space bilated noise reduction technology , provides excellent image quality even in such low illumination as 0.0008 without trailing

TVP Technology

Transcendent Video Processing algorithm uses low-light enhancement algorithm to not only allow more light to enter the camera in low illumination scenes , reduce noise , improve overall picture brightness , but also weaken excessive bright light , and avoid over-exposure of single pixel .

- Sensitivity 85%
- SNR 25%
- No Trailed Image of moving object

Traditional   TVP

Image Quality

Ultra High Definition Series	Having a range of cameras of 2MP, 4MP,5MP,8MP,12MP
Excellent WDR	WDR Start From 100dB

Intelligent Smart Functions
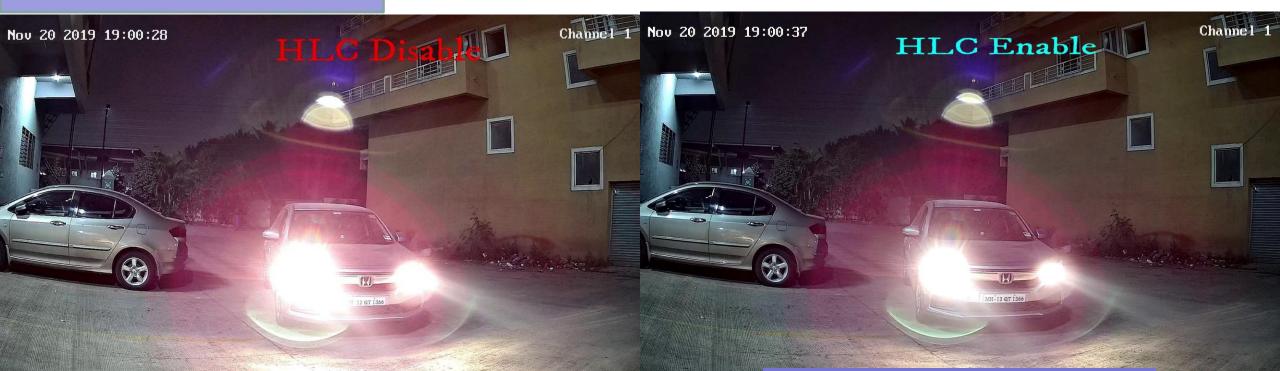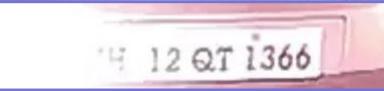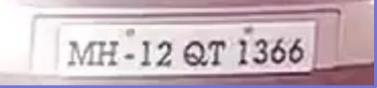
Intelligent Coding Watch ▶

Intelligent coding is an optimization of S+265 Coding. When turn on intelligent coding function, the minimum stream of static scene in 1920*1080 resolution can reach to 256 kbsp and consume storage space is 3GB/day.

Intelligent Image Watch ▶
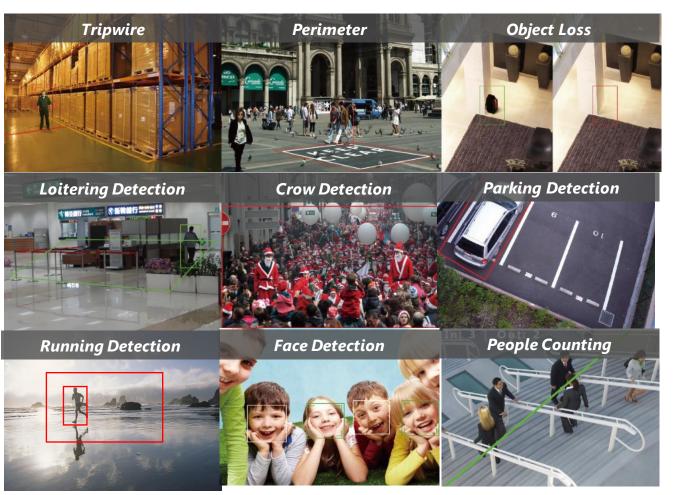
Based on human body detection technology in chips, intelligent image optimizes facial image and ensures image clarity under low stream and complex illumination condition.

Intelligent Alarm

Enhance motion detection accuracy for human body by intelligent chip

Intelligent Smart Functions-VCA

SYNTEL
Smart Telereturns

Tripwire | Perimeter | Object Loss
Loitering Detection | Crow Detection | Parking Detection
Running Detection | Face Detection | People Counting

- Tripwire
- Double tripwire
- Perimeter
- Object missing
- Object left
- People running
- People loiter
- Illegal parking
- Guard

- Facial detection
- People Counting
- People crowd
- People on duty
- Image unfocussed detection
- Scene change detection
- Audio abnormal detection
- Auto tracking

AEW : Early Warning Detection

Based on AI deep learning AEW (auto tracking early warning) is the combination of light warning and audio warning. achieving the effect of prevention Midway intervention and post event investigation it can precisely differentiate vehicle from people and warn people or vehicle respectively thus increasing the accuracy and availability of warning compared with traditional open CCTV.

Built-in Mic

High decibels Speaker

Protection IP67 Distance 20-30M

TF Card, Easy to Plus and one key export Video

Dual mode white-light
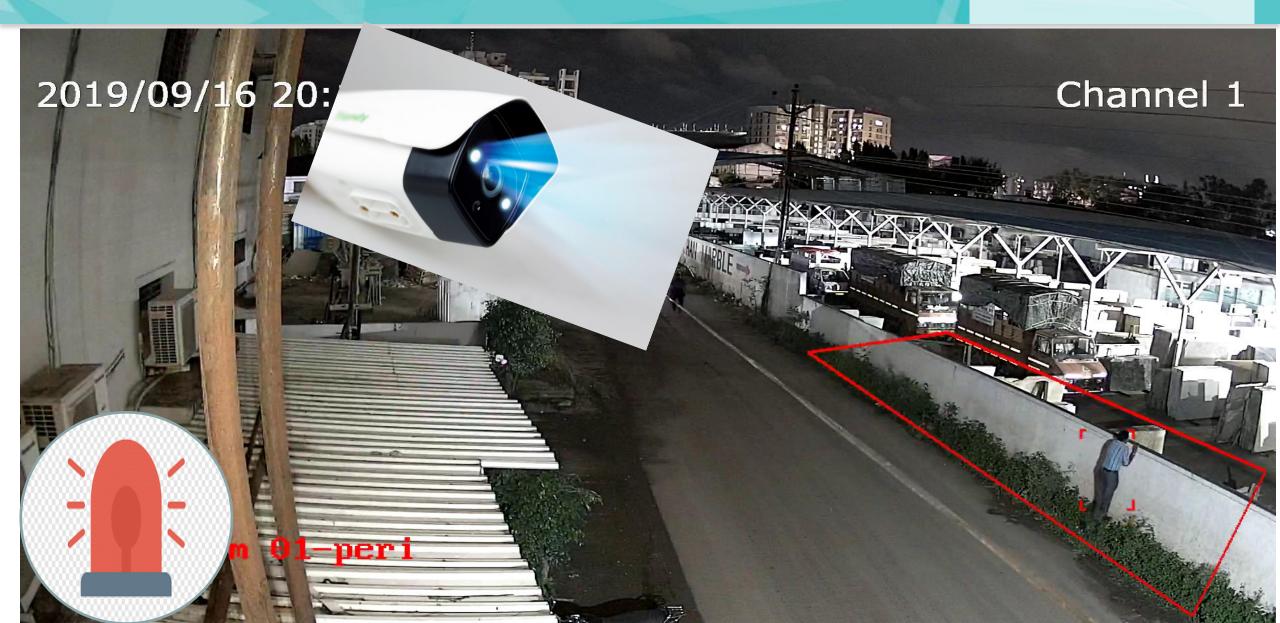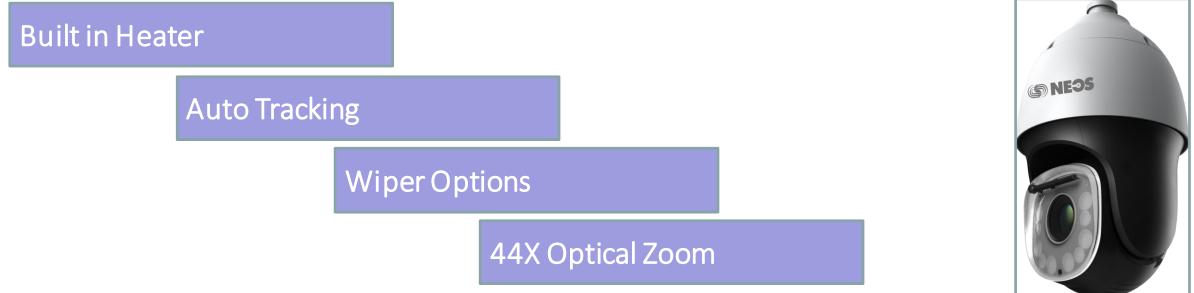
Intelligent Smart Functions PTZ
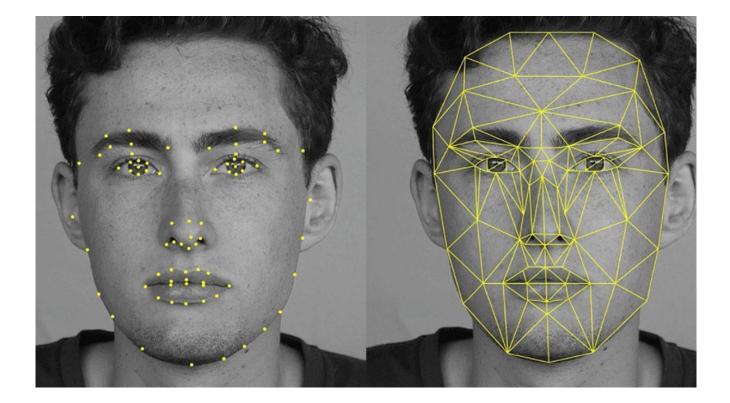
Panoramic PTZ with Lowest illumination 0.0008lux Provide 24hours full colourful image

Built in Heater

Auto Tracking

Wiper Options

44X Optical Zoom

NEOS

Face Recognition Solution

What's Special ?

Advantages Of Face Recognition Solution

Strong ability to deal with data	**AI Algorithm**
Face library with high security level	**Recognition products with beneficial functions**
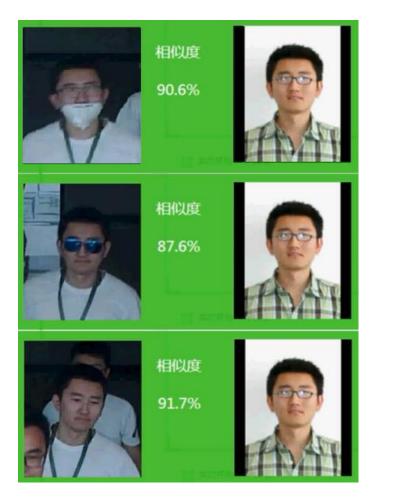
·Cooperation with world-class chip manufacturers

·Trained algorithm with enough data

·Open for integration

·Maturing algorithm which had been used in many big projects

·Provide pictures with high quality
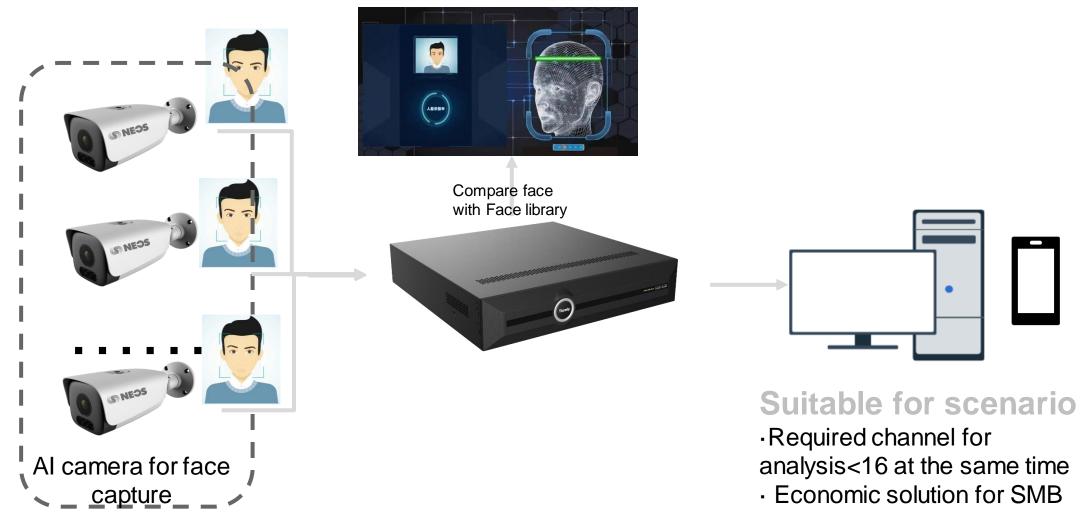
Camouflage detection

face recognition system supports recognize various facial characteristics. People in mask, sunglasses won't affect accuracy of facial recognition.

SOLUTION FEATURES

Compare face
with Face library

AI camera for face
capture

Collaborative analysis solution

Suitable for scenario

· Required channel for
analysis<16 at the same time
· Economic solution for SMB

SYNTEL
Smart Telereturns

Face Recognition
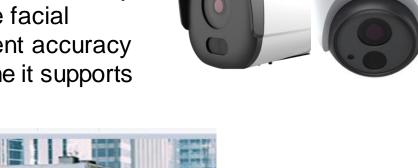
face capture camera which starlight technology achieves face capture up to 15 people in one snap by Deep learning Technology reaching the accuracy rate over 97% besides the face recognition camera support the facial recognition up 32 database for 5000 faces keeping the alignment accuracy greater than 95% configured with three level precaution scheme it supports multiple alarm linkage for variety of applications

Starlight
Multi-mode Available
Plugin Free
Face capture/Recognition
Video Analysis

Network Video Recorder

Product Introduction to NVR

1HDD NVR

2HDD NVR

4HDD NVR

8HDD NVR

16HDD NVR

24HDD NVR

We are offering some extra channels in NVR as compare to industry standard/competition which helps the end users to connect some additional cameras as similar/lower prices as compare to competition

Industry Standard	SNEOS Offering	Benefit/Extra Channel	%
4CH	5CH	1CH Extra	
8CH	10CH	2CHExtra	
16Ch	20CH	4CH Extra	
32CH	40CH	8CH Extra	25% Extra
64Ch	80CH	16CH Extra	
128CH	160CH	32CH Extra	
256CH	320CH	64CH Extra	

Robust Coding & Decoding Performance

SYNTEL
Smart Telereturns

| Extraordinary S+265 Compression | Saving up to 70% to 80% Bandwidth and storage compare to H.264 |

| Up to 4K High Resolution Recording | Supporting ultra high definition video Recording |

| Up to 4K High Resolution Output | Supporting ultra high definition video Viewing Experience |

Features
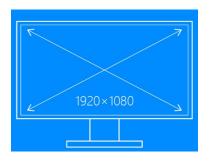
| Plus & Play Options /One Key to add | Cameras can configure auto or by single click |

| Self Adaptive Resolution | No need to setup manually |
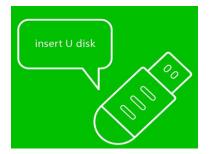
1920×1080

| Simplified backup | Auto Prompt on USB connect for quick backup |

insert U disk

Features

No Active-X Required	Support All Browsers

Dual Gigabit Ethernet ports	Dual Network/Load balancing/Redundancy (4HDD & Above)

Multiple Display Output	Support up to 4 Display Output in 8HDD and above NVRs
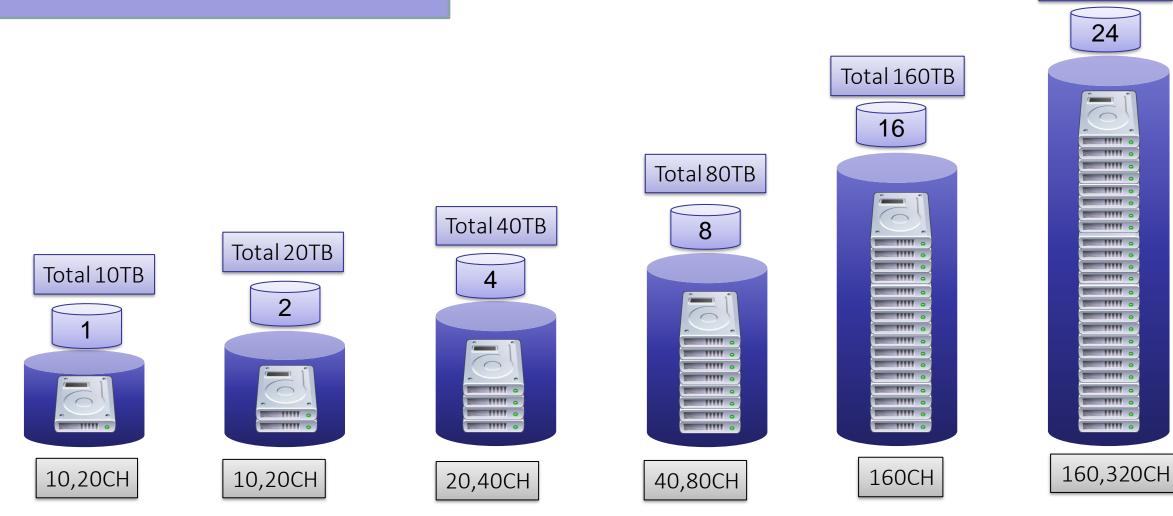
Smart Storage

SYNTEL
Smart Telereturns

Multiple Storage Options

Total 240TB

24

Total 160TB

16

Total 80TB

8

Total 40TB

4

Total 20TB

2

Total 10TB

1

| 10,20CH | 10,20CH | 20,40CH | 40,80CH | 160CH | 160,320CH |

Smart Storage
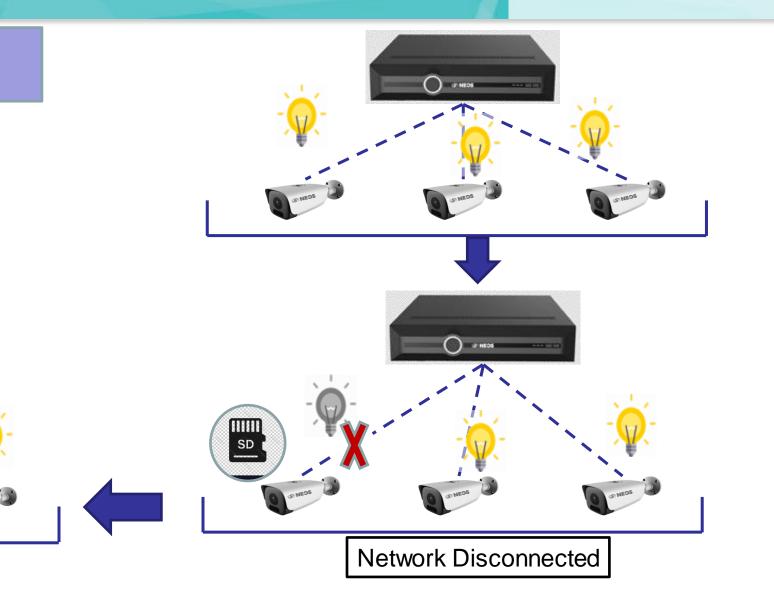
ANR

Automatic Network Replenishment for reliable & Flexible Storage

Connecting

Recorded data transmitted back

Network Disconnected

Smart Storage

RAID Up to RAID 60	Redundant Array of independent disk for more reliability
Dual Stream Recording	Record only primary + Secondary or only primary or only secondary stream
Disk Groups	Dividing disk into different group or different storage needs

Operational Features

Comprehensive Integration

Support Onvif with Profile G, Profile S, Profile T options

Optimize HDD Installation space

Innovative design to optimize the HDD space

Support VCA

•Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning
•*FR Model Support Facial Recognition

Strong CMS Software
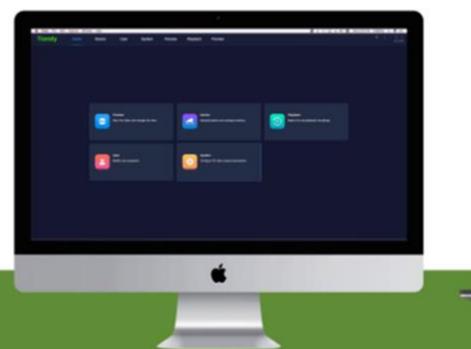
SNEOS Smart Client for MAC

SNEOS Netvideo-Express

SNEOS Netvideo Professional

Strong CMS Software

The CMS Software Support function like preview, playback, alarm, attendance, TV wall, E-map etc. and configuration like device management, user management, Storage, event etc.

Netvideo Smart	Netvideo Profession
Free to use	License Required
Up to 200 IP Device or 512 Channel	Up to 200 IP Device or 700 Channel
Only Support SNEOS Device	Support SNEOS + ONVIF
Support Adding by P2P, IP, Domain	Support Adding by P2P, IP, Domain

Strong CMS Software

Operation

- Preview
- Playback
- Alarm
- TV Wall
- Guard
- Log
- Storage Status
- E-Map
- Face Detection
- Behavior
- Warning
- Person Flow
- Tripwire
- Face Snapshot
- Heatmap
- Attendance
- Attendance
- Access Control
- Personnel
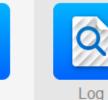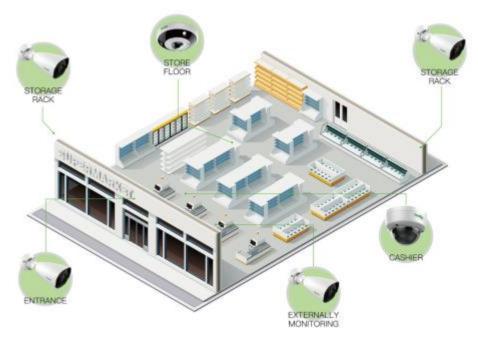
Strong CMS Software

Status

Vertical Solution

Retail
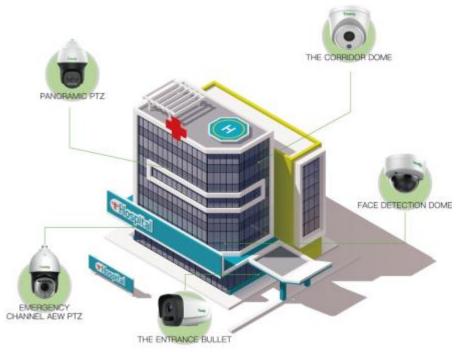
- Fisheye : 12MP/Panoramic/Heatmap
- Face Detection
- Super Starlight camera for night view
- 4K H.265 Management NVR

Factory/Manufacturing

- Exclusive AWE solution, person-vehicle classification, pre-war
- Leading super-starlight technology, high quality night vision
- Full series VCA function, more than 10 types
- New Fisheye panoramic camera, with auto tracking facilities
- Autotracking PTZ

Hospital

- 24h full color image
- Save 70% storage with S+265
- Perimeter alarm for hospital
- FR for registration office/authorized entry
- Remote monitoring for ICU
- Parking lot monitoring
- Auto tracking

Campus

- 24h full color image
- Save 70% storage with S+265
- Perimeter alarm for Campus
- FR for registration office/authorized entr
- Remote monitoring for Campus
- 2way Audio solution
- Auto tracking

Product Portfolio-Products

Full Range of Product

- **2mp~12mp IPC**
- **4X-44X PTZ**
- **5CH to 320CH NVR**
- **Strong CMS Software**
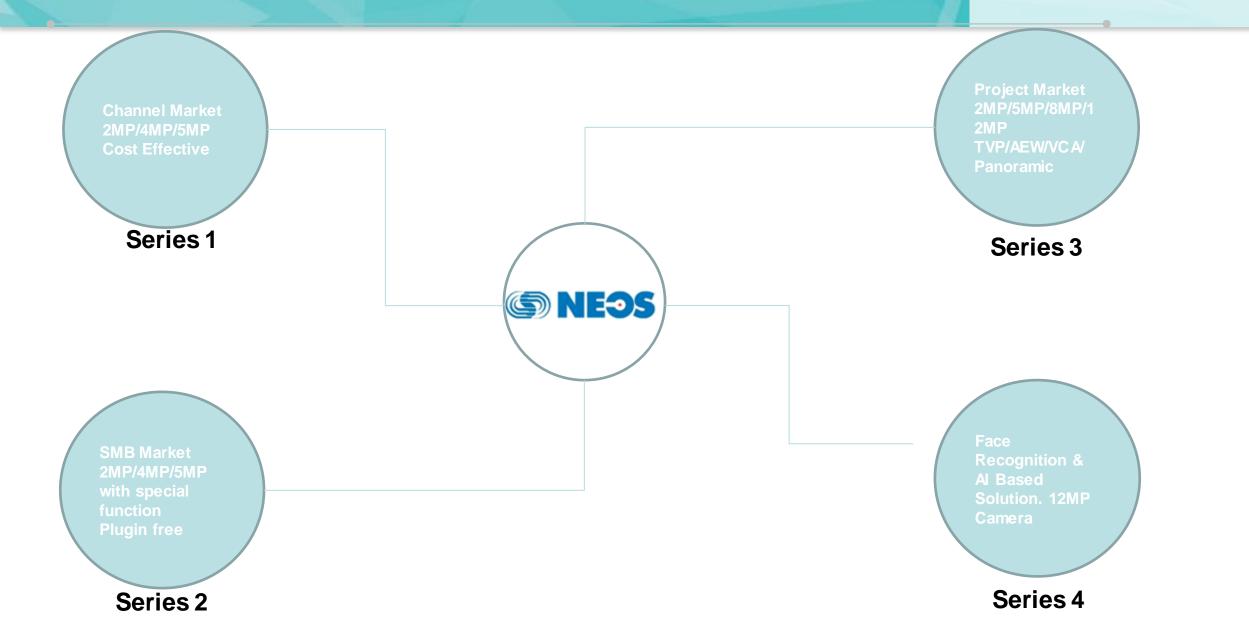
Product Portfolio-Product Range

Channel Market 2MP/4MP/5MP Cost Effective

Series 1

Project Market 2MP/5MP/8MP/12MP TVP/AEW/VCA/ Panoramic

Series 3

SMB Market 2MP/4MP/5MP with special function Plugin free

Series 2

Face Recognition & AI Based Solution. 12MP Camera

Series 4

Model Number Understanding - Camera

Model Number															
Back End				**Type**		Product Tyep		Technology		Series		Resolution		SF- Len Type			SF-Other	
N	T	-		I	Dome	D	Normal	N	Lite	1	2MP	2	Fixed			EW	E
Back	Back	-		IP	Bullet	B	Starlight	S	Pro	2	3MP	3	Manual VF	V	Auto Tracking	AT
		-			Box	X	Super Starlight	P	Ultra	3	4MP	4	Motorized VF	M	W	Wiper
		-			PTZ	P	Facial Series	F	Face	4	5MP	5				
		-			Vandal D	D					8MP	8				
		-			Fisheye	F					12MP					

Specification												
IR Distance		POE		Special Features		Special Features		Special Features		Special Features		Lens
10M	I1	POE	P	Audio	A	SD	S	Alarm	R	Early Warning	E	2.8MM
20M	I2											4MM
30M	I3											6MM
40M	I4											2.8-12MM
50M	I5											
80M	I8											

Model Number Understanding - NVR

NVR														
MODEL NUMBER														
Back End			**Type**	**NVR**	Series		HDD CAPACITY		CHANNEL		POE NVR			
N	T	-	I	N	Lite	1	1	1	5	5	POE NVR	P		
Back	Back	-	IP		Pro	2	2	2	10	10				
		-			Ultra	3	4	4	20	20				
		-			Face	4	8	8	40	40				
		-					16	16	80	80				
		-					24	24	160	160				
SPECIFICATION														
Series		RESOLUTION SUPPORT		CHANNEL CAPACITY										
Lite	1	2MP	2MP	5	5									
Pro	2	4MP	4MP	10	10									
Ultra	3	5MP	5MP	20	20									
Face	4	12MP	12MP	40	40									
				80	80									
				160	160									

Product Portfolio- 1 Series

	Resolution	2MP	4MP	5MP	8MP
IPC	Lens	Fixed	Fixed	Fixed	Fixed
	S+265				
	S+265 Starlight				
	S+265 Super Starlight				

	Resolution	2MP		
PTZ	S+265 Starlight	4x PoE	20x PoE	25X Optical Zoom
NVR	Hard Drive	1HDD		
	S+265 NVR	5ch/10ch/20ch		

Product Portfolio- Key Features of Products

Regular Series

- 2MP/4MP Resolution
- 100dB WDR
- Bullet IP67, Dome IP66
- Bullet 4MM Lens, Dome 2.8MM Lens
- IR distance Bullet 50M, Dome 30M
- Special Function like Intelligent Image, Intelligent Coding, Intelligent Alarm

Starlight Series

- 5MP Resolution
- 120dB WDR
- Bullet IP67, Dome IP66
- Bullet 4MM Lens, Dome 2.8MM Lens
- IR distance Bullet 50M, Dome 30M
- Tripwire/Double Tripwire/Perimeter/Object Abandon/Object lost/Running/Loitering/Parking/Crowd Counting/Video Abnormal Detection, Facial Facial Recognition

Super Starlight Series

- 2MP Resolution
- 120dB WDR
- Bullet IP67, Dome IP66
- Bullet 4MM Lens, Dome 2.8MM Lens
- IR distance Bullet 50M, Dome 30M

Product Portfolio- Key Features of Products

SYNTEL
Smart Telereturns

PTZ Series-4X

- Indoor Mini PTZ-Starlight 2MP
- 4X Optical Zoom and digital zoom
- Audio , SD card Support, Alarm Support
- IP66
- IR distance 30M, POE
- Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Crowded/ Video Abnormal /Audio Abnoraml/ Face Detection

PTZ Series- 20X

- 6Inch PTZ Outdoor-Starlight 2MP
- 20X Optical Zoom and 16Xdigital zoom
- IP66
- IR distance 150M, POE
- Tripwire/ Double Tripwire/ Perimeter/ Object Abandon

PTZ Series- 25X

- 4Inch PTZ Outdoor-Starlight 2MP
- 25X Optical Zoom and 16Xdigital zoom
- IP66
- IR distance 150M, POE
- Built in Heater, SD card Support, Audio Support, Alarm Support
- Tripwire/ Double Tripwire/ Perimeter/ Object Abandon

Product Portfolio- Key Features of Products

NVR 1HDD Support

- 5CH/10CH
- 40/40Mbps Throughput
- Recording resolution support up to 5MP
- All Browser Support, Support ANR
- 1*RJ45, 2*USB port Support
- Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning

NVR 1HDD Support

- 20CH
- 80/80Mbps Throughput
- Recording resolution support up 4K
- All Browser Support, Support ANR
- 1*RJ45, 2*USB port Support
- Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning

Product Portfolio- 1 Series-Fixed Camera

1 Series product will have 2MP, 4MP, 5MP Range

Model	NT-IBS15	NT-IDS15	NT-IBN14	NT-IDN14	NT-IBP12	NT-IDP12	NT-IBN12	NT-IDN12
Images								
Image Sensor	1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS	
Resolution	5MP		4MP		2MP		2MP	
Min Illumination	Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6, AGC ON)		Color : 0.05Lux @ (F 2.0, AGC ON) B/W : 0.01Lux @ (F 2.0, AGC ON)		Color : 0.0008Lux @ (F 1.4, AGC ON) B/W : 0.0001Lux @ (F 1.4, AGC ON)		Color : 0.05Lux @ (F 2.0, AGC ON) B/W : 0.01Lux @ (F 2.0, AGC ON)	
Lens	4MM	2.8MM	4MM	2.8MM	4MM	2.8MM	4MM	2.8MM
Video Compression	S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG	
Frame Rate	2560*1920@20FPS		2560*1440@15FPS		1920*1080@30FPS		1920*1080@30FPS	
WDR	120dB		100dB		120dB		100dB	
HLC	Y		Y		Y		Y	
Smart Defog	Y		Y		Y		Y	
VCA	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Crowd Counting/Video Abnormal Detection, Facial Facial Recognition (Suggest Opening the Motion in the HD Mode)		NA		NA		NA	
Audio I/O	NA		NA		NA		NA	
Alarm I/O	NA		NA		NA		NA	
Memory Slot	NA		NA		NA		NA	
System compatibility	Onvif (Profile S),CGI		Onvif (Profile S)		Onvif (Profile S)		Onvif (Profile S)	
IR Range	50M	30M	50M	30M	50M	30M	50M	30M
IR LED	2pcs Lattice	1pcs Lattice	2pcs Lattice	1pcs Lattice	2pcs Lattice	1pcs Lattice	2pcs Lattice	1pcs Lattice
Power Supply	DC12V, POE		DC12V, POE		DC12V, POE		DC12V, POE	
IP Protection	IP67	IP66	IP67	IP66	IP67	IP66	IP67	IP66

Product Portfolio- 1 Series- PTZ Camera

Model	NT-IPS12I	NT-IPS12
Specification	I3/P/A/S/4X	I15/P/20X
Images		
Image Sensor	1/2.8" CMOS	1/2.8" CMOS
Resolution	2MP Starlight 4X	2MP Starlight 20X
Min Illumination	Color : 0.002Lux @ (F 1.4, AGC ON) B/W : 0 lux with IR	Color : 0.002Lux @ (F 1.4, AGC ON) B/W : 0 lux with IR
Optical Zoom	4X	20X
Digital Zoom	16X	-
Video Compression	S+265/H.265/H.264/MJPEG	S+265/H.265/H.264/MJPEG
Frame Rate	1920*1080 @ 30FPS	1920*1080 @ 30FPS
WDR	120dB	140dB
Cruise	16, up to 32 preset per cruise	4, up to 32 preset per cruise
Preset	500	256
Auto Tracking	N/A	N/A
Early Warning	Y	N/A
Video Enhancement	BLC/3D DNR/HLC	BLC/3D DNR/HLC
VCA	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Crowded/ Video Abnormal /Audio Abnoraml/ Face Detection	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon
Audio I/O	1/1CH	N/A
Alarm I/O	2/1CH	N/A
Memory Slot	YES up to 128GB	N/A
System compatibility	Onvif (Profile S),CGI,SDK	Onvif (Profile S),CGI,SDK
IR LED	3pcs, 30M	6pcs, 150M
White LED	1	NA
Power Supply	DC12V, POE	DC12V, POE+
IP Protection	IP40	IP66

Product Portfolio- 1 Series- NVR's

Model	NT-IN10105	NT-IN10110	NT-IN10120
Specification	1/5M/40Mb	1/5M/40Mb	1/4K/80Mb
Image			
Video Input	5-CH	10CH	20Ch
Decoding Format	S+265/H.265/H.264		S+265/H.265/H.264
Input/output Bandwidth	40Mbps/40Mbps		80Mbps/80Mbps
Recoridng Resolution	Up to 5MP		Up to 8MP
Sync Playback	2*1080P,4*720P		4*1080P,8*720P,1*8MP/5MP
HDD (SATA)	1 HDD		1 HDD
E-SATA	N/A		N/A
RAID	N/A		N/A
Audio In	N/A		N/A
Audio Out	1xRCA		1xRCA
Alarm In/out	N/A		N/A
HDMI/VGA	1/1 CH		1/1 CH
VCA	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning		
Network Interface	1*RJ45 Network Interface		
Power Supply	12V DC		
Chassis	1U		

Product Portfolio- 2 Series

Resolution	2MP			5MP		8MP	
Lens	**Fixed**	**Veri-Focal**	**Motorized**	**Fixed**	**Motorized**	**Fixed**	**Motorized**
IPC — S+265						**NEW**	
S+265 Starlight							

Hard Drive	2HDD	4HDD	8HDD
NVR — S+265 NVR	10ch/20ch	20ch/40ch	40ch/80ch
S+265 PoE NVR	10ch/20ch		

Resolution	2MP		5MP
PTZ — S+265 Starlight	20x PoE	33x PoE AutoTrack	30x,

Product Portfolio- 2 Series Fixed Camera

2 Series Products will have Fixed lens, Starlight 2MP & 5MP, SD card models

Model	NT-IBS25	NT-IDS25	NT-IBS22	NT-IDS22	NT-IDN22
Specification	I3/P/S/4MM	I2/P/A/S/2.8MM	I3/P/S/4MM	I2/P/A/S/2.8MM	I2/P/A/S/2.8MM
Images					
Image Sensor	1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS
Resolution	5MP Starlight		2MP Starlight		2MP
Min Illumination	Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6, AGC ON)		Color : 0.002Lux @ (F 2.0, AGC ON) B/W : 0.001Lux @ (F 2.0, AGC ON)		Color : 0.05Lux @ (F 2.0, AGC ON) B/W : 0.01Lux @ (F 2.0, AGC ON)
Lens	4MM	2.8MM	4MM	2.8MM	2.8MM
Video Compression	S+265/H.265/H.264/MJPEG		H.265/H.264/MJPEG		H.265/H.264/MJPEG
Frame Rate	2560*1920@20FPS		1920*1080@30FPS		1920*1080@30FPS
WDR	120dB		140dB		100dB
HLC	Y		Y		Y
Corridor	Y		Y		Y
VCA	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Crowd Counting/Video Abnormal Detection		Tripwire/Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Video Abnormal Detection		Tripwire/ Double Tripwire / Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd detection/ Video Abnormal Detection/ People Counting/ Face Detection (In HD Mode)
Audio I/O	NA	Mic In	NA	Mic In	Mic In
Alarm I/O	NA		NA		NA
Memory Slot	**YES up to 128GB**		**YES up to 128GB**		**YES up to 128GB**
System compatibility	Onvif (Profile S),CGI		Onvif (Profile S),CGI		Onvif (Profile S),CGI
IR Range	30M	20M	50M	20M	20M
IR LED	2pcs Lattice	8 pcs Array	2pcs Lattice	8 pcs Array	8 pcs Array
Power Supply	DC12V, POE		DC12V, POE		DC12V, POE
Circuit Protection	TVS 6000V, Lightning Surge Protection: (power 2000V, RJ45 1000V)		TVS 6000V, Lightning Surge Protection: (power 2000V, RJ45 1000V)		TVS 6000V, Lightning Surge Protection: (power 2000V, RJ45 1000V)
IP Protection	IP67	IP66 IK10	IP67	IP66 IK10	IP66 IK10

Product Portfolio- 2 Series Fixed Camera

SYNTEL Smart Telereturns

2 Series Products will have VF Lens model Manual VF, Motorized Lens, Special Function

Model	NT-IBS25M	NT-IDS25M	NT-IBS22M	NT-IDS22M	NT-IBN22M	NT-IDN22M	NT-IBN22V	NT-IDN22V
Specification	I5/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM	I5/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM	I5/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM	I5/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM
Images								
Image Sensor	1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS		1/2.8" CMOS	
Resolution	5MP Starlight Motorized		2MP Starlight Motorized		2MP Motorized		2MP VF Lens	
Min Illumination	Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6, AGC ON)		Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6, AGC ON)		Color : 0.05Lux @ (F 1.4, AGC ON) B/W : 0.1Lux @ (F 1.4, AGC ON)		Color : 0.05Lux @ (F 1.4, AGC ON) B/W : 0.1Lux @ (F 1.4, AGC ON)	
Lens	2.8-12MM Motorized VF Lens		2.8-12MM Motorized VF Lens		2.8-12MM Motorized VF Lens		2.8-12MM Manual VF Lens	
Video Compression	H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG	
Frame Rate	2560*1920@20FPS		1920*1080@30FPS		1920*1080@30FPS		1920*1080@30FPS	
WDR	120dB		140dB		100dB		100dB	
HLC	Y		Y		Y		Y	
Smart Defog	Y		Y		Y		Y	
Corridor	Y		Y		Y		Y	
VCA	Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Crowd Counting/Video Abnormal Detection		Tripwire/Double Tripwire/Perimeter/Object Abandon/Object Lost/Running/Loitering/Parking/Crowd Counting/Video Abnormal Detection		Tripwire/Perimeter		Tripwire/Perimeter	
Audio I/O	1/1CH	1/1 Mic In	1/1CH	1/1 Mic In	1/1CH	1/1 Mic In	1/1CH	1/1 Mic In
Alarm I/O	2/1 CH		2/1 CH		1/0CH	2/1 CH	1/0CH	2/1 CH
Memory Slot	YES up to 128GB		YES up to 128GB		YES up to 128GB		YES up to 128GB	
USB	1CH		1CH		1CH	NA	1CH	NA
Reset Button	Y		Y		Y		Y	
RS 485	Y		Y		NA	NA	NA	NA
System compatibility	Onvif (Profile S),CGI		Onvif (Profile S),CGI		Onvif (Profile S),CGI		Onvif (Profile S),CGI	
IR Range	50M	30M	50M	30M	50M	30M	50M	30M
IR LED	54 pcs Array	32pcs Array	54 pcs Array	32pcs Array	54 pcs Array	32pcs Array	54 pcs Array	32pcs Array
Power Supply	DC12V, POE		DC12V, POE		DC12V, POE		DC12V, POE	
Circuit Protection	TVS 6000V, Lightning Surge Protection : (power 2000V, RJ45 1000V)		TVS 6000V, Lightning Surge Protection : (power 2000V, RJ45 1000V)		TVS 6000V, Lightning Surge Protection : (power 2000V, RJ45 1000V)		TVS 6000V, Lightning Surge Protection : (power 2000V, RJ45 1000V)	
IP Protection	IP67	IP66 IK10	IP67	IP66 IK10	IP67	IP66 IK10	IP67	IP66 IK10

Product Portfolio- 2 Series PTZ

Model	NT-IPS22	NT-IPS22AT	NT-IPS25
Specification	I15/P/S/20X	I15/P/33X/AT	I40/P/30X
Images			
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	2MP Starlight 20X	2MP Starlight 33X Auto Tracking	5MP Starlight 30X
Min Illumination	Color : 0.002Lux @ (F 1.4, AGC ON) B/W : 0 lux with IR	Color : 0.002Lux @ (F 1.5, AGC ON) B/W : 0 lux with IR	Color : 0.002Lux @ (F 1.5, AGC ON) B/W : 0 lux with IR
Optical Zoom	20X	33X	30X
Digital Zoom	16X	16X	16X
Video Compression	S+265/H.265/H.264/MJPEG	S+265/H.265/H.264/MJPEG	S+265/H.265/H.264/MJPEG
Frame Rate	1920*1080 @ 30FPS	1920*1080 @ 60FPS	2560*1920@20FPS
WDR	140dB	140dB	Digital WDR
Cruise	4, up to 32 preset per cruise	16, up to 32 preset per cruise	16, up to 32 preset per cruise
Preset	500	500	500
Auto Tracking	N/A	Y	N/A
Early Warning	N/A	N/A	N/A
Video Enhancement	BLC/3D DNR/HLC	BLC/3D DNR/HLC	BLC/3D DNR/HLC
VCA	Tripwire/ Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd/ Video Abnormal/ Audio Abnormal/ Heatmap	Tripwire/ Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd/ Video Abnormal/ Audio Abnormal/ Heatmap	Tripwire/ Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd/ Video Abnormal/ Audio Abnormal/ Heatmap/Face Detection/ People Counting/ On Duty Detection
Audio I/O	1/1CH	1/1CH	1/1CH
Alarm I/O	1/1CH	1/1CH	1/1CH
Memory Slot	YES up to 128GB	YES up to 128GB	YES up to 128GB
System compatibility	Onvif (Profile S),CGI,SDK	Onvif (Profile S),CGI,SDK	Onvif (Profile S),CGI,SDK
IR LED	4pcs, 120M	4pcs, 150M	10pcs, 150M
White LED	2	2	NA
Power Supply	DC12V, POE+	DC24V, POE+	DC24V, POE+
IP Protection	IP66	IP66	IP66

Product Portfolio- 2 Series NVR

Model	NT-IN20210	NT-IN20220	NT-IN20440	NT-IN20840	NT-IN20880
Specification	2/4K/80Mb	2/4K/80Mb	2/12M/400Mb	2/12M/400Mb/RAID	2/12M/400Mb/RAID
Image					
Video Input	10CH	20CH	40CH	40CH	80CH
Decoding Format	S+265/H.265/H.264				
Input/output Bandwidth	80Mbps/80Mbps		400Mbps/200Mbps		
Recoridng Resolution	Up to 8MP		Up to 12MP		
Sync Playback	4*1080P,8*720P,1*8MP/5MP		16*1080P,32*720P,4*8MP/5MP,2*12MP		
HDD (SATA)	2 HDD		4 HDD	8 HDD	8 HDD
E-SATA	N/A		N/A	1	1
RAID	N/A		N/A	Up to RAID 10	Up to RAID 10
Audio In	1CH		1CH		
Audio Out	1xRCA		1xRCA		
Alarm In/out	0/1 CH		16/4 CH		
HDMI/VGA	1/1 CH		1/1 CH	2/2 CH	2/2 CH
VCA	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning				
Network Interface	1*RJ45 Network Interface		2*RJ45 Network Interface		
Power Supply	12V DC		12V DC	AC 100-240V	
Chassis	1U		1.5U	2U	

Product Portfolio- 3 Series

Resolution	2MP	5MP	8MP	12MP
Lens	Motorized	Motorized	Motorized	Fix
S+265 Starlight				
S+265 Super Starlight				

IPC

Resolution	2MP	5MP	8MP/16MP
S+265 Starlight		30x	
S+265 Super Starlight	44x AFW		44x/63x 180° 44x/63x 360°

PTZ

Hard Drive	16HDD	24HDD
S+265 NVR	80ch	160ch/320ch

NVR

Product Portfolio- 3 Series Fixed Camera

3 Series Products will have Special Camera Like 360 Degree Fish eye, Box Camera, Fixed Lens AEW Camera

Model	NT-IFN38	NT-IXT32	NT-IBT32E	NT-IBS35E
Specification	I2/P/A	NA/P/A/R	I5/P/A/R/4MM	I5/P/A/R/4MM
Images				
Image Sensor	1/1.7" CMOS	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Resolution	12.0MP	2MP Super Starlight	2MP Super Starlight AEW	5MP Starlight AEW
Min Illumination	Color : 0.05Lux @ (F 2.8, AGC ON) B/W : 0.01Lux @ (F 2.8, AGC ON)	Color : 0.0008Lux @ (F 1.2, AGC ON) B/W : 0.0001Lux @ (F 1.2 AGC ON)	Color : 0.0008Lux @ (F 1.2, AGC ON) B/W : 0.0001Lux @ (F 1.2 AGC ON)	Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6 AGC ON)
Lens	2MM	NA	4MM	4MM
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	S+265/H.265/H.264/MJPEG	S+265/H.265/H.264/MJPEG
Frame Rate	4000*3027@20FPS	1920*1080@60FPS	1920*1080@30FPS	2560*1920@20FPS
WDR	100dB	140dB	140dB	120dB
HLC	Y	Y	Y	Y
Smart Defog	Y	Y	Y	Y
Corridor	NA	Y	Y	Y
VCA	Tripwire/ Double Tripwire/ Perimeter/ Early Warning/ Heat Map/ Audio Abnoraml detection/ Video abnormal detection / Auto Tracking.	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ on duty detection	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning
Audio I/O	1/1 Built in Dual Mic & Speaker	1/1, Mic In	1/1, Built in MIC & Speaker	1/1, Built in MIC & Speaker
Alarm I/O	2/1CH	2/1CH	1/0CH	1/0CH
Memory Slot	Micro SD card slot up to 128GB	2Micro SD card slot up to 512GB	Micro SD card slot up to 128GB	Micro SD card slot up to 128GB
USB	NA	1Ch	1Ch	1Ch
System compatibility	Onvif (Profile S),CGI	Onvif (Profile S),CGI	Onvif (Profile S),CGI	Onvif (Profile S),CGI
IR Range	15M	NA	50M	50M
IR LED	3 pcs Lattice	NA	2 pcs Lattice	2 pcs Lattice
Power Supply	DC12V, POE	DC12V, AC 24V, POE	DC12V, POE	DC12V, POE
IP Protection	IP66 IK10	IP65	IP67	IP67

Product Portfolio- 3 Series Fixed Camera

2 Series Products will have Motorized Lens 2MP, 5MP AEW Camera

Model	NT-IBT32ME	NT-IDS32ME	NT-IBT35ME	NT-IDS35MN
Specification	I8/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM	I8/P/A/S/R/2.8-12MM	I3/P/A/S/R/2.8-12MM
Images				
Image Sensor	1/2.8" CMOS		1/2.8" CMOS	
Resolution	2MP Super Starlight AEW Motorized		5MP Super Starlight AEW Motorized	
Min Illumination	Color : 0.0004Lux @ (F 1.2, AGC ON) B/W : 0.0001Lux @ (F 1.2 AGC ON)		Color : 0.002Lux @ (F 1.6, AGC ON) B/W : 0.001Lux @ (F 1.6 AGC ON)	
Lens	Motorized 2.8-12MM		Motorized 2.8-12MM	
Video Compression	S+265/H.265/H.264/MJPEG		S+265/H.265/H.264/MJPEG	
Frame Rate	1920*1080@30FPS		2560*1920@20FPS	
WDR	120dB		120dB	
HLC	Y		Y	
Smart Defog	Y		Y	
Corridor	Y		Y	
VCA	Tripwire/ Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/video abnormal detection/ Early Warning		Tripwire/ Double Tripwire/ Perimeter/Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/video abnormal detection/ Early Warning	
Audio I/O	1/1, Built in MIC & Speaker		1/1, Built in MIC & Speaker	
Alarm I/O	2/1CH		2/1CH	
Memory Slot	Micro SD card slot up to 128GB		Micro SD card slot up to 128GB	
USB	1Ch		1Ch	
System compatibility	Onvif (Profile S),CGI		Onvif (Profile S),CGI	
IR Range	80M	30M	80M	30M
IR LED	4 pcs Lattice	14 pcs Array	4 pcs Lattice	14 pcs Array
Power Supply	DC12V, POE		DC12V, POE	
IP Protection	IP67	IP66	IP67	IP66

Product Portfolio- 3 Series PTZ Camera

Model	NT-IPP32AT	NT-IPS35AT	NT-IPP32ATW
Specification	I40/P/44X/AT	I40/P/44X/AT	I80/P/44X/S/AT/W/180
Images			
Image Sensor	1/1.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
Resolution	2MP Super Starlight 44X	5MP Starlight 30X	2MP Super Starlight 44X
Min Illumination	Color : 0.0004Lux @ (F 1.5, AGC ON) B/W : 0 lux with IR	Color : 0.002Lux @ (F 1.5, AGC ON) B/W : 0 lux with IR	Color : 0.0008Lux @ (F 1.5, AGC ON) B/W : 0 lux with IR
Optical Zoom	44X	30X	44X
Digital Zoom	16X	16X	16X
Video Compression	S+265/H.265/H.264/MJPEG		
Frame Rate	1920*1080 @ 60FPS		
WDR	140dB		
Cruise	16, up to 32 preset per cruise		
Preset	500		
Auto Tracking	Y		
Early Warning	Y		
Video Enhancement	BLC/3D DNR/HLC		
VCA	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd/ Video Abnormal/ Audio Abnormal/ Heatmap/ Face Detection/ People Counting/ On Duty Detection/ Saftey Helmet Detection		
Audio I/O	1/1CH		
Alarm I/O	8/2CH		
Memory Slot	YES up to 128GB		
System compatibility	Onvif (Profile S),CGI,SDK		
IR LED	10pcs, 180M		
White LED	2		
Power Supply	DC24V, POE+		
IP Protection	IP66		

Product Portfolio- 3 Series NVR

Model	NT-IN31680	NT-IN324160	NT-IN324320
Specification	3/12M/400Mb/RAID	3/12M/1280Mb/RAID	3/12M/1280Mb/RAID
Image			
Video Input	80 CH	160 CH	320 CH
Decoding Format	S+265/H.265/H.264	S+265/H.265/H.264	
Input/output Bandwidth	400Mbps/200Mbps	1280Mbps/640Mbps	
Recoridng Resolution	Up to 12MP	Up to 12MP	
Sync Playback	16*1080P,32*720P,64*4CIF,4*8MP/5MP, 2*12MP	20*1080P,40*720P,80*4CIF,5*8MP/5MP,3*12MP	
HDD (SATA)	16 HDD	24 HDD	
E-SATA	1	1	
RAID	Up to RAID 10	Up to RAID 60	
Audio In	1CH	1CH	
Audio Out	1xRCA	1xRCA	
Alarm In/out	16/4 CH	16/4 CH	44/22 CH
HDMI/VGA	2/2 CH	2/2 CH	
VCA	Tripwire/ Double Tripwire/ Perimeter/ Object Abandon/ Object Lost/ Running/ Loitering/ Parking/ Crowd Counting/ Face detection/ people counting/ Audio abnormal detection/ video abnormal detection/ Early Warning		
Network Interface	2*RJ45 Network Interface	4*RJ45 Network Interface	
Power Supply	AC 100-240V	AC 100-240V	
Chassis	3U	4U	

Product Portfolio- 4 Series

IPC	Resolution	2MP	
	Lens	Fixed	Motorized
	S+265 Starlight Face capture		
	S+265 Super Starlight Face Recognition		

NVR	Hard Drive	1HDD	2HDD	8HDD
	S+265 Face Recognition	5CH	10CH	20CH/40CH/80CH

Thank you