







H.264



*Rear Panel

16CH 8CH POE

NETWORK VIDEO RECORDER





FEATURES

- Support 16 Ch 3MP @30fps or 1080P @30fps or 960P @30fps or 720P@30fps IP input
- Adopt standard H.264 high profile compression format to get highquality video at much lower bit rate
- · Intuitive and user-friendly Graphic User Interface (GUI), Windows style operation by mouse
- Multi-mode recording: manual / timer / motion / sensor
- Playback: support 4 CH playback
- Search: calendar / time, events (alarm, motion)
- Express and flexible backup via USB, network or DVD-RW (SATA)
- Pentaplex: preview, record, playback, backup and remote access
- DHCP, DDNS, PPPoE Network protocol, IE browse and CMS supported
- Remote control via IE or CMS: preview, playback, backup, PTZ and configuration
- 8 PoE network ports; support IPC direct connection to NVR; support PoE power supply
- Dual streaming technology to encode recording stream and network stream separately. User can adjust network stream to fit bandwidth without changing recording quality
- Multi-user online simultaneously
- Authorization management, log review and device status review
- HDMI 1080P output, true high resolution display
- Support PTZ preset and auto cruise, up to 128 presets and 8 cruises
- Powerful smart phone surveillance supporting iPhone, Andriod
- Giga ethernet interface to get the fastest transmission
- Complete SDK software available, easy to integrate with other applications



*Accessories

NVST TX208-16L		
Compression	NVST TX208-16L	
CPU	SYSTEM	
CPU	Compression	Standard H.264 / MPEG4
VIDEO Output VGA x 1 : 1920 x 1080 HDMI x 1 : 1920 x 1080 HDMI x 1 : 1920 x 1080 IP INPUT Resolution 3MP / 1080P / 960P / 720P Frame Rate 16 CH 3MP / 1080P / 960P / 720P @30 fps AUDIO Input 16 Ch IPC input Output RCA x 1 2-way audio RCA x 1 RECORD Resolution 3MP : 2048 x 1536, 1080P : 1920 x 1080 960P : 1280 x 720 D1 : 704 x 576 Frame Rate 400 fps (PAL) 480 fps (NTSC) Bit Rate 256Kbps ~ 12Mbps Encode CBR Quality 6 Level Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Fruction Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input <		
Output	OS	Embedded Linux
HDMI x 1 : 1920 x 1080	VIDEO	
HDMI x 1 : 1920 x 1080	Output	VGA x 1 : 1920 x 1080
Resolution 3MP / 1080P / 960P / 720P @30 fps		HDMI x 1: 1920 x 1080
Frame Rate	IP INPUT	
Input	Resolution	3MP / 1080P / 960P / 720P
Input	Frame Rate	16 CH 3MP / 1080P / 960P / 720P @30 fps
New York New York	AUDIO	
Resolution Resolution Resolution Resolution 3MP: 2048 x 1536, 1080P: 1920 x 1080 960P: 1280 x 960, 720P: 1280 x 720 D1: 704 x 576 Frame Rate 400 fps (PAL) 480 fps (NTSC) Bit Rate 256Kbps ~ 12Mbps Encode CBR Quality 6 Level Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 130 mm x 270 mm x 58 mm (W x D x H)	Input	16 Ch IPC input
RECORD SMP : 2048 x 1536, 1080P : 1920 x 1080 960P : 1280 x 960, 720P : 1280 x 720 D1 : 704 x 576 Frame Rate	Output	RCA x 1
Resolution	2-way audio	RCA x 1
960P: 1280 x 960, 720P: 1280 x 720 D1: 704 x 576 Frame Rate	RECORD	
D1 : 704 x 576	Resolution	
Frame Rate		
Bit Rate 256Kbps ~ 12Mbps Encode CBR Quality 6 Level Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, B, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)		
Encode CBR Quality 6 Level Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)		
Quality 6 Level Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)		
Mode Manual, Timer, Motion, Sensor File Manager Lock, unlock, reserving time PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Encode	
File Manager Cock, unlock, reserving time	Quality	1 1 1
PLAYBACK Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Mode	
Playback 4 CH Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom **ALARM** Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc **NETWORK** Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream **CELLPHONE** OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list **PORT** HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller **OTHERS** Power Supply DC 12V/DC 48V Consumption 100 Control of the con	File Manager	, ,
Search Time/calendar search, event(motion) Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	12.12.11	
Smart Search Highlighted date and time to display the channel record Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Playback	1 - 1
Function Play, Pause, FF, FB, Digital zoom ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Search	Time/calendar search, event(motion)
ALARM Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Smart Search	Highlighted date and time to display the channel record
Mode Sensor, Motion, Video Loss Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Function	Play, Pause, FF, FB, Digital zoom
Input No local input, support IPC alarm input Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 POE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	1.2	
Output No Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Mode	Sensor, Motion, Video Loss
Triggering Record, PTZ move,E-mail, etc NETWORK Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Input	No local input, support IPC alarm input
NETWORK	Output	No
Interface RJ45 10M/100M/1000M adaptive ethernet network port x 1 PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Triggering	Record, PTZ move,E-mail, etc
PoE RJ45 x 8 Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	NETWORK	
Protocal TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Interface	RJ45 10M/100M/1000M adaptive ethernet network port x 1
Others 20 users online, dual stream CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	PoE	RJ45 x 8
CELLPHONE OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD)	Protocal	TCP / IP, UDP, DHCP, DNS, PPPOE, DDNS
OS iPhone, Andriod Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Others	20 users online, dual stream
Function Multi-screen surveillance, record, snapshot, PTZ control, save the device list PORT HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)		
PORT	OS	iPhone, Andriod
HDD SATA x 1 RS485 RS485 x 1 (for PTZ or Keyboard) USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD)	Function	Multi-screen surveillance, record, snapshot, PTZ control, save the device list
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	PORT	
USB USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device Remote Controller Optional OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	HDD	SATA x 1
Remote Controller Optional	RS485	RS485 x 1 (for PTZ or Keyboard)
OTHERS Power Supply DC 12V/DC 48V Consumption < 12W (without HDD)	USB	USB 3.0 x 1, USB 2.0 x 1, one for mouse, another for USB backup device
Power Supply DC 12V/DC 48V Consumption < 12W (without HDD)	Remote Controller	Optional
Consumption < 12W (without HDD) Dimensions 300 mm x 270 mm x 58 mm (W x D x H)		OTHERS
Dimensions 300 mm x 270 mm x 58 mm (W x D x H)	Power Supply	DC 12V/DC 48V
		< 12W (without HDD)
Work Environment -10 ~ 55 °C , 10% ~ 90% Humidity	Dimensions	300 mm x 270 mm x 58 mm (W x D x H)
	Work Environment	-10 ~ 55 °C , 10% ~ 90% Humidity