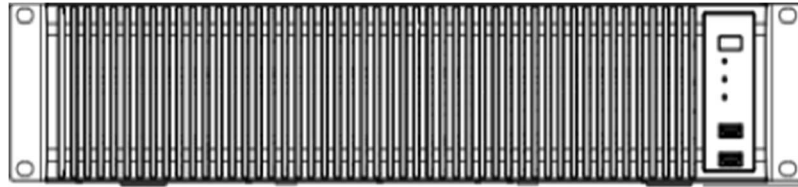


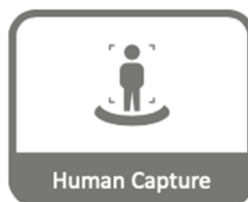
# Vanguard Guardian+ NVR-IV7109-1 Series

Embedded Intelligent Video NVR



## Features:

- > Industry embedded micro-controller
- > Max 400Mbps incoming bandwidth
- > 128-channel IP video access
- > Up to 12 Channel AI IVS with AI by NVR /Up to 32 Channel with AI by Camera
- > Up to 16-channel perimeter protection
- > Up to 12-channel face recognition with normal IPC
- > Up to 40-channel face recognition with face detection IPC
- > Up to 4-channel video metadata
- > Up to 50 face databases 500,000 face pictures in total
- > Supports RAID 0/1/5/6/10
- > 4 HDMI/1 VGA video output



## Vanguard Guardian+ NVR- IV7019-1 Series

System	
Main Processor	embedded processor Micro controller
Operating System	Embedded LINUX
Display	
Interface	4 HDMI ports, Support 4K, 1 VGA
Resolution	16MP/12MP /8MP/6MP/5MP/4MP/3MP/1080P/720P/D1
Display split	Customized Display – Max. 36 Ch Live View
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Recording	
Compression	H.265+/H.265/H.264+/H.264
Resolution	16MP/12MP/8MP/6MP/5MP/3MP/1080P/720P/ D1 /etc...
Record Rate	400 Mbps
Bit Rate	16kbps~ 20Mbps
Recording Mode	Manual, Schedule (Regular (Continuous), MD, Alarm), Stop
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Video Detection and Alarm	
Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank
Alarm Input	16 Ch. Low Level effective
Alarm Output	8 Ch. Relay Contact (1A@24VDC),NO/NC programmable
Tracking	Zoom, Tracking, Recording, Preset, Snapshots, Alarms,..Etc.
Playback and Backup	
Playback	1/4/9/16
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
Backup Mode	USB Device/Network/Internal SATA burner
Play Back Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Video and Audio	
IP Camera Input	Up to 128
Two Way Talk	1/2 Ch Input/output

Storage	
Internal HDD	8 SATA ports, up to 128TB, Raid 0/1/5//10/50 – Support Global Hot Spare
eSATA	1 eSATA
Network	
Ethernet	4 RJ-45 (10/100 /1000 Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UpnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Band width Management, Text Integration, Bonjour, ANR
Compatibility	ONVIF, PSIA, CGI
Max. User Access	128 Users
Smart Phone	iPhone, iPad, Android, Windows Phone
Video Analytics	
Video Analytics	<p>Face Detection, face recognition, Video metadata, IVS (Tripwire, Intrusion, Missing Object,...) People Counting, Smoke Detection, Call Detection.</p> <p><b>Face properties:</b> Gender, Age, Glasses, Expression, Mouth Mask and Beard</p> <p><b>Face Recognition:</b> 12 Ch with normal Cam/ 40 Ch with face detection IP Cam - 50 Face databases with 500,000 face pictures.</p> <p><b>ANPR:</b> 50 plate databases with 500,000 plate in total</p> <p><b>Human Body properties:</b> Gender, Age, Sleeves length, Top Color, Bottom type and color, Bag, Rain Coat, Umbrella, Hat, Hairstyle, Mask.</p> <p><b>Vehicle Properties:</b> Vehicle Type, Color, plate color, logo, calling, seatbelt, ornament, region</p>
Auxiliary Interface	
USB Interface	4 ports (2 Rear USB3.0,2 Front USB2.0)
RS232	1 port, For PC communication & Keyboard
RS485	1 port, For PTZ control
General	
Power Supply	AC 100~240V, 50/60 Hz
Power Consumption	Max. 40W without HDD
Working Environment	-10°C~+55°C / 10%~90%RH / 86~106kpa
Dimension (W×D×H)	2U, 440mm×446mm×89mm
Weight	9.0KG (without HDD)
Warranty	Vanguard 1-year warranty and Vanguard Extended Warranty