AVAIVI
SEE THE UNSEEN

40Ch Network Video Recorder

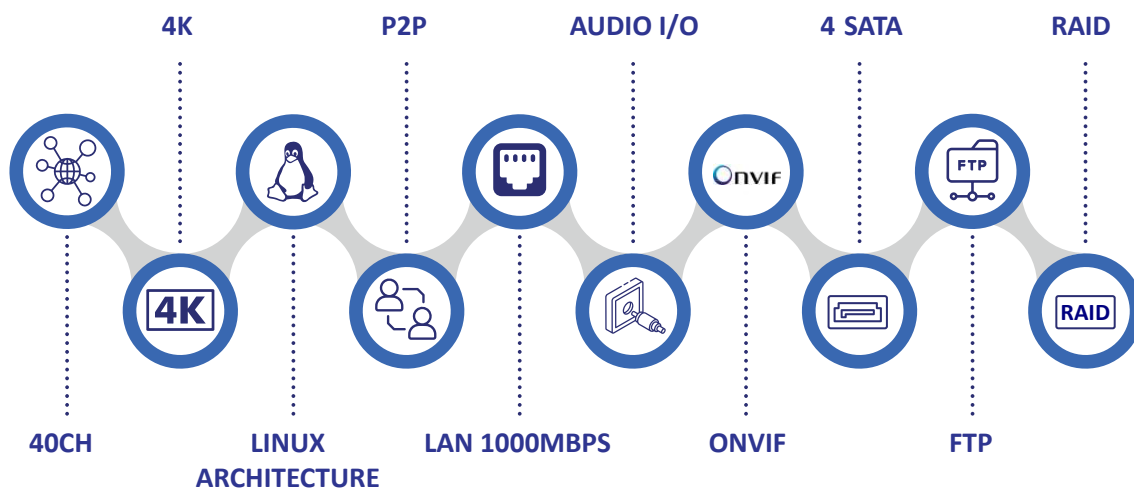## Model
ASNY-P540R4

FEATURES

- 40 CHANNEL IP CAMERA INPUT WITH 4 SATA HDD SUPPORT.

- MULTPLE VIDEO COMPRESSION FORMAT SUPPORT H.265+, H.265 AND H.264.

- MAXIMUM 400MBPS INCOMING BANDWIDTH AND 400MBPS OUTGOING BANDWIDTH.

- SUPPORT LIVE, STORAGE, AND PLAYBACK OF THE CONNECTED CAMERA UP TO 16MP RESOLUTION

- SUPPORT CLOUD P2P FEATURE TO GET CAMERA LIVE-STREAMING ON MOBILE/PC ANY TIME ANYWHERE.

- REMOTE CONTROL VIA WEB/CMS/MOBILE APPLICATION: PREVIEW , PLAYBACK, BACKUP, PTZ AND CONFIGURATION.

- SUPPORT MULTI-BRAND NETWORK CAMERAS VIA ONVIF PROTOCOL (PROFILE S, PROFILE G, PROFILE T)

- DUAL STREAM RECORDING ENABLED FOR LOCAL STORAGE WITH HIGH DEFINITION IMAGE & LOWER FOR REMOTE VIEWING

- MOBILE APPLICATION FOR REMOTE VIEWING: VIDEOSIGHT FOR ANDROID AND IOS PLATFORM AND CMS SOFTWARE: ACMS

4K	P2P	AUDIO I/O	4 SATA	RAID
4K	Onvif		FTP	
40CH	LINUX ARCHITECTURE	LAN 1000MBPS	ONVIF	FTP

40 CH NETWORK VIDEO RECORDER

AVAIVI's Network Video Recorders (NVRs) offer a versatile and scalable solution to meet your surveillance needs. Choose from a range of channels, including 4channel to 128 Channel, ensuring there's a perfect fit for every environment. Experience crystal-clear video quality with support for 4K resolution and impressive 16MP clarity. Our NVRs leverage advanced H.265+ compression technology, maximising storage efficiency without compromising image quality. With a Linux architecture at its core, our NVRs provide robust and stable performance. The LAN options include both 100Mbps and 1000Mbps, ensuring seamless connectivity and data transfer. AVAVI's NVRs come equipped with versatile storage options, from 1 SATA to a massive 16 SATA, providing flexibility to meet the demands of your surveillance infrastructure. The RAID functionality ensures data redundancy and reliability, while eSATA and FTP support enhance data management capabilities. Additionally, the P2P feature simplifies remote access, making it easy to monitor your surveillance system from anywhere. Incorporating Alarm I/O and a range of channel options, AVAIVI's NVRs deliver a comprehensive and scalable solution for your security needs

40 CH

AVAIVI's 40-Channel Network Video Recorder (NVR) sets the standard for high-capacity surveillance systems. With support for up to 40 channels, this NVR offers unparalleled scalability for extensive camera networks. The system is designed to handle the demands of large-scale deployments, ensuring seamless recording and monitoring of numerous cameras simultaneously. The NVR delivers exceptional video quality with 4K resolution, providing clarity and detail for comprehensive surveillance. Operating on a robust Linux architecture, it guarantees stability, reliability, and efficient data management. AVAIVI's 64-Channel NVR is a powerhouse solution, meeting the needs of the most demanding security environments.

4K

4K

AVAIVI's 4K Network Video Recorders (NVRs) redefine surveillance with unparalleled clarity and detail. Supporting a resolution four times higher than standard HD, these NVRs capture every nuance, ensuring that no detail goes unnoticed. Whether monitoring a large area or zooming in for a closer look, the 4K resolution provides superior image quality for critical applications. With AVAIVI's commitment to cutting-edge technology, the 4K NVRs offer a future-ready solution for users who demand the highest standards in video surveillance. Elevate your security infrastructure with AVAIVI's 4K NVRs, where precision meets performance.

LINUX ARCHITECTURE

AVAIVI's Network Video Recorders (NVRs) are built on a robust Linux architecture, providing a stable and secure foundation for your surveillance infrastructure. The Linux operating system ensures efficient performance, reliability, and resistance to common vulnerabilities. With Linux at its core, AVAIVI NVRs deliver a powerful and customisable platform, allowing for seamless integration with other Linux-based systems and applications. This architecture contributes to the overall resilience and flexibility of your surveillance network, ensuring that it operates smoothly and securely. Trust AVAIVI for cutting-edge technology and a solid foundation for your video recording needs.

P2P

AVAIVI's Network Video Recorders (NVRs) feature P2P (Peer-to-Peer) technology, offering a seamless and hassle-free way to connect and access your surveillance system remotely. With P2P functionality, users can easily set up and view their IP cameras on smartphones, tablets, or computers without the need for complex network configurations. This user-friendly approach simplifies the remote viewing process, allowing you to monitor your premises from anywhere with an internet connection. AVAIVI's commitment to convenience and accessibility is reflected in the P2P feature, ensuring that your surveillance experience is not only powerful but also effortlessly accessible. Trust AVAIVI for innovative solutions that prioritise user-friendly experiences in security.

LAN 1000MBPS

AVAIVI's Network Video Recorders (NVRs) feature high-speed LAN ports with 1000Mbps connectivity. The gigabit LAN interface ensures lightning-fast data transfer and communication between the NVR and connected surveillance cameras. This high-bandwidth connection facilitates swift and efficient video streaming, recording, and data management across your surveillance network. AVAIVI prioritises robust network performance to provide a responsive and reliable platform for your security infrastructure. With 1000Mbps LAN support, AVAIVI's NVRs deliver superior connectivity, meeting the demands of modern surveillance systems. Trust AVAIVI for cutting-edge NVR solutions that elevate the performance of your security setup.

AUDIO I/O

AVAIVI's Network Video Recorders (NVRs) are equipped with Audio In and Audio Out functionalities, providing a comprehensive audio solution for your surveillance needs. The Audio In feature allows you to connect external microphones to capture ambient sounds or voices in the vicinity of your cameras. Simultaneously, the Audio Out feature enables two-way communication, allowing you to listen to live audio feeds and make announcements or warnings through connected speakers. This bidirectional audio capability enhances the situational awareness of your surveillance system, enabling you to respond effectively to events in real-time. Choose AVAIVI's NVRs for an integrated audio experience that complements the visual aspects of your surveillance, providing a more complete and interactive monitoring solution.

ONVIF

ONVIF (Open Network Video Interface Forum) is a standard protocol for the interoperability of IP-based security products, including network video recorders (NVRs), IP cameras, and video management software. Implementing ONVIF in an NVR allows it to communicate and interact with other ONVIF-compliant devices from different manufacturers seamlessly. Overall, ONVIF integration in an NVR enables seamless interoperability with a wide range of IP-based security devices, simplifying system integration, expanding device compatibility, and enhancing the overall functionality and flexibility of the surveillance infrastructure.

4 SATA

AVAIVI's Network Video Recorders (NVRs) equipped with 4 SATA interfaces redefine surveillance storage capabilities. With the flexibility to accommodate up to eight hard drives simultaneously, these NVRs provide an extensive and scalable solution for high-capacity video storage. The 4 SATA configuration empowers users to build a robust and efficient surveillance system capable of handling large-scale deployments. Whether you're managing a comprehensive security network or seeking prolonged footage retention, AVAIVI's 4 SATA NVRs deliver unparalleled storage capacity and performance. Elevate your surveillance infrastructure with AVAIVI's 8 SATA NVRs, combining reliability, scalability, and ample storage to meet the demands of complex security scenarios.

FTP

AVAIVI's Network Video Recorders (NVRs) support FTP (File Transfer Protocol), enabling seamless and efficient file sharing and data transfer within the surveillance network. This feature allows users to securely transmit video footage and other data to remote servers or storage locations. By leveraging FTP, AVAIVI NVRs facilitate the convenient and reliable exchange of surveillance data, ensuring that critical footage is accessible when and where it's needed. Whether for backup purposes or collaboration between multiple locations, the FTP functionality enhances the accessibility and reliability of your surveillance infrastructure. Rely on AVAIVI for advanced features that streamline your security operations.

RAID

RAID in the context of an NVR (Network Video Recorder), it typically refers to a redundant array of independent disks (RAID) configuration. RAID is a method of combining multiple hard drives into a single logical unit to improve performance and enhance data redundancy and reliability.

Here's how RAID configurations work in an NVR:

RAID Levels: There are several RAID levels, each offering different benefits in terms of performance, redundancy, and capacity. Common RAID levels used in NVR setups include JBOD, RAID 0, RAID 1, RAID 5, RAID 6, and RAID 10. Overall, RAID configurations play a crucial role in NVR systems by providing data protection, fault tolerance, and improved storage performance.

40CH NETWORK VIDEO RECORDER

System	
Operating System	Embedded LINUX
IP Video Input	40 Channel
Network	
Incoming Bandwidth	400Mbps
Outgoing Bandwidth	400Mbps
Total Throughput	800Mbps
Network Interface	2 x Interface RJ-45 10/100/1000Mbps
IP Support	Static, Dynamic
Protocols	TCP/IP, IPv4, IPv6, ARP, DDNS, DNS, DHCP/STATIC, FTP, HTTP, HTTPS, ICMP, IGMP, Multicast, NFS, NTP, ANR, PPPoE, RTCP, RTP, RTSP, SMB/CIFS, SMTP, SNMP, SRTP, SSH, SSL, TLSv1.2, TLSv1.3, UDP, Unicast, UPnP
Onvif	Supported (S,G,T)
Video/Audio Output	
Live View Split	HDMI-1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40 VGA-1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40
HDMI Output	HDMI-1: 3840x2160, 2560x1600, 2560X1440, 1920x1080, 1440x900, 1366x768, 1280x800, 1280X720, 1024X768, 800X600
VGA Output	VGA-1: 1920x1080, 1440x900, 1366x768, 1280x800, 1280X720, 1024X768, 800X600
Audio Input	1x Interface 3.5mm
Audio Output	1x Interface RCA
Audio Compression	G711A; G711U; AAC; ADPCM_DIV4
Video Compression	H.265+/H.265/H.264+/H.264
Record & Decoding	
Live view/Playback	16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Local Sync Playback	16MP×2, 12MP×3, 8MP×4, 6MP×4, 5MP×6, 4MP×8, 3MP×9, 1080P×16, 720P×32, 4CIF×40
Search Mode	Time /Date, Motion, Event, Alarm, Normal.
Playback Function	Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full screen/backup (video Editing)/Step/Digital Zoom
Record Mode	Manual recording, Alarm recording, Schedule recording
Storage Method	Local HDDs
Dual Stream Record	Supported
Hot-Spare Recording	Supported
Hard Disk	
SATA	4 SATA
Disk Group	4 Disk Group
Capacity	Up to 10TB capacity for each HDD
eSATA	N/A
RAID	JBOD, RAID0, RAID1, RAID5, RAID6, RAID10
Alarm Event	
General Alarm	Motion, Mask Alarm, Alarm Input(IPC), Video Loss, Alarm Input(NVR), Manual Alarm
Exceptions Alarm	IP Conflict, MAC Conflict, Network Disconnected, No disk, Illegal Access, Disk group space alert, Disk Full, Disk R/W error, Video Abnormal, Abnormal found in smart of disk, Abnormal temperature of the disk, Hot-spare Exception, Array Exception, IPC voltage abnormal, RTC failure.
VCA Support by Camera	Tripwire, Double Tripwire, Perimeter, Object Abandon, Object Missing, Loiter, Running, Parking, Heatmap, Lens Dignose, Scene Switch Dignose, Signal Abnormal Detection, Signal Loss Detection, Plate License Recognition, On Duty Detection, Crowd Detection, Parking guard, Safety Helmet Detection, Electric vehicle testing, People Counting, Link To Tracking, Fireworks detection, Environmental temperature measurement, Face Detection, Human body temperature measurement
VCA Search	Heatmap, Early-warning search, Behavior Search, Plate license search, Search safety helmet, Thermographic retrieval, Duty search, Electric vehicle retrieval, Facial search
Interface	
USB Interface	1 x Interface USB2.0 (Front Panel) 1 x Interface USB3.0 (Rear Panel)
Alarm In	N/A
Alarm Out	N/A
Serial Interface	N/A
Environmental	
Power Supply	DC-12V/5A
Power Consumption	≤15W (Without HDD)
Operating Temperature	-10°C ~ + 55°C (+14°F ~ +131°F), Humidity ≤ 90% RH (non-condensing)
Dimensions	440 x 347 x 75mm
Weight	3.3Kg

EXPLODED VIEW

ABOUT AVAIVI

AVAIVI is a dynamic and innovative DPIIT recognised Startup Company for its commitment to driving excellence, fostering innovation, and contributing to Bharat's burgeoning entrepreneurial landscape. AVAIVI specialises in providing cutting-edge Audio-Visual Solutions, AI-based Software and Security & Surveillance Technology.

AV Technology: AVAIVI's state-of-the-art audio-visual solutions redefine how information is presented and shared. Our innovative AV solutions include interactive displays, digital signage, audio systems, and immersive multimedia experiences.

AI Software Suite: From predictive analytics to process optimization, our AI-based software applications empower organizations to make informed decisions, streamline operations, and stay ahead in a rapidly evolving digital landscape.

Video Surveillance: AVAIVI's expertise in CCTV security surveillance technology goes beyond traditional monitoring. Our comprehensive solutions encompass advanced camera systems, intelligent video analytics, and remote monitoring capabilities.

Disclaimer: The information provided in this product datasheet is intended for general informational purposes only. While we strive to ensure the accuracy and reliability of the information presented. It is important to note that product specifications and features may change without prior notice.