

FUSION-5x5-216-4Ki

IC Realtime 16CH 4K Penta-tech BNC DVR with AI Intelligence

The FUSION-5x5-216-4Ki is an advanced 16-channel Penta-Tech digital video recorder designed for robust security applications, featuring state-of-the-art AI intelligence. This powerful entry-level recorder supports five video technology formats, including HDCVI, HDTVI, AHD, CVBS (Analog), and IP. With BNC inputs, it enables recording at resolutions up to 4K across all formats. The device also supports the addition of up to 32 IP channels, enhancing its flexibility with an incoming bandwidth of 128 Mbps.

Equipped with a sophisticated embedded AI deep learning processor, the FUSION-5x5-216-4Ki introduces enhanced video analytics functionalities, including Smart Motion Detection (SMD) and Face Recognition. These features work to minimize false alerts while accurately identifying individuals. The advanced Intelligent Video Surveillance (IVS) capabilities include perimeter detection through tripwire and intrusion box areas, which can be combined with SMD target classification for effective monitoring of humans and vehicles, making it an ideal solution for both commercial and residential security needs.

The enhanced SMD allows operators to respond swiftly to events by utilizing the powerful AI SMD search, which can efficiently list motion events involving vehicles and humans in just a few clicks. Additionally, the FUSION-5x5-216-4Ki is capable of real-time face recognition on one channel, referencing up to 10 different face database and storing as many as 20,000 face images, processing up to 12 images per second.

Housed in a compact 1U desktop case, the FUSION-5x5-216-4Ki includes 2 internal SATA port's and features 4K (3840x2160) HDMI and VGA video outputs. It supports various backup methods via USB and network, is license-free, ONVIF-compatible , and works with a wide range of third-party IP camera vendors.

● PERFORMANCE

BNC Resolution (Max)	4K (8MP)
BNCFrame Rate	Ch 1 & 9 1~15fps - 4K, Others 1~7fps - 4K All Channels - 1~15fps - 5MP
IPC Resolution (Max)	8MP
IPC Recording Bandwidth	128Mbps
Processor	Embedded
Video Compression	AI Coding/H.265+/H.265/H.264
Audio Compression	G.711A, G.711U, PCM

● SOFTWARE

OS	Embedded Linux (ICR OS)
Video Detection	Motion Detection, Video Loss, Camera Masking and Diagnosis
Smart Search	Yes
Intelligence	SMD, Face Rec, Face Detect, EPTZ Perimeter Protection, Quickpick
Simultaneous Playback	1/4/9/16
Max User Access	128
Network Functions	Alarm Server, DDNS, DHCP, DNS, Email, FTP, HTTPS, IP Filter, IPv4, IPv6, PPPoE, RTSP, SMTP, TCP/IP, UDP, UPnP, 802.1X, NTP, P2P
IPC Support	IC Realtime, Onvif, Axis, Bosch, Dahua, Hikvision, Panasonic, Pelco, Samsung, Sony, Uniview
Smart Phone/ Tablet	Easyviewer Plus, DMSS, IC View
PC/ Mac Software	SmartPSS & Web Browser Client
Push Notifications	Yes
DDNS	Yes
P2P	Yes
Extra Stream	Yes
ARC Integration	Yes <small>NOTE: ARM/DISARM BY ARB1606 IS NOT POSSIBLE</small>



● CONNECTIVITY

Total Video Channels	16 (32 with IP extension)
16x BNC Cameras = 16 Channels, 16x BNC cameras + 16x IP cameras = 32 Channels, 32x IP Channels = 32 Channels	
IP Channel Possibility	32
BNC Channel (Max)	16
Audio Input (RCA)	1
Audio Output (RCA)	1
Two way Audio Supported	Yes
Alarm Inputs	- Requires ARB1606
Alarm Outputs	- Requires ARB1606
HDMI	1
VGA	1
BNC	–
PoE IPC Ports	–
10/100M RJ45 Port	–
10/100/1000M RJ45 Port	1
RS-485	1
RS-232	-
USB Ports	2 (Total) 1 USB 2.0, 1 USB 3.0

● STORAGE

SATA Ports	2 (Max 28TB)
RAID	–
eSATA Port	–
Backup Methods	USB, Network, SmartPSS, Mobile app

● ENVIRONMENTAL

Case Type	1U Desktop
Dimensions (mm)	375 (W) x 289.6(D) x 53(H)
Weight	1.80KG (without HDD) / 3.10KG (Gross)
Power Supply	12vDC 5A
Power Consumption	<15W (without HDD)
Working Environment	-10°C ~ + 55°C / 86 ~ 106kpa
Storage Conditions	-20°C ~ + 70°C / 0 ~ 90% RH
Certification	CE, FCC, UL