

## KX-D8104H1

4 Channel 5 in 1 1080P Compact 1U Digital Video Recorder

- · H.265+ video compression
- · Supports HDCV/AHD/TVI/CVBS/IP video inputs
- $\cdot$  Max 6 channels IP camera inputs, each channel upto 6MP;
- · Max 24Mbps In coming Bandwidth
- $\cdot$  Smart Search and Intelligent Video System



## **Technical Specification**

Record ModeMotion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	•				
Operating System   Embedded LINUX     Video and Audio   4 Channel, BNC     Analog Camera Input   4 Channel, BNC     HDCVI Camera   4 MP, 1080P@ 25/30 fps, 720P@ 50/60 fps, 720P@ 25/30 fps     AHD Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     TVI Camera   4 MP, 1080P@ 25/30, 720P@ 25/30 fps     Audio In/Out   4+2 Channel, each channel up to 6MP     Audio In/Out   1/1, RCA     Recording   Reuse audio in/out, RCA     Recording   Main stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30 fps)     Bit Rate   32Kbps~6144Kbps Per Channel     Record Mode   Manual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, Stop     Audio Compression   AAC(only for the 1st channel), G.7114, G.7114, PCM     Audio Sample Rate   8KHz, 16 bit Per Channel     Audio Sample Rate   64Kbps Per Channel	System				
Precence of precence of the second precence of the s	Main Processor	Embedded Processor			
Analog Camera Input4 Channel, BNCHDCVI Camera4MP, 1080P@ 25/30, 720P@ 50/60fps, 720P@ 25/30fpsAHD Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsTVI Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsCVBS CameraPAL/NTSCIP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecording4M-N, 1080P, 1080N, 720P, 960H, D1, CIFCompressionH.265+Record RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ <d1 (1~25="" 30fps)<="" cif="" td="">Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Sample Rate1 +DMI ,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/ When IP extension mode enabled: 1/4/</d1>	Operating System	Embedded LINUX			
HDCVI Camera4MP, 1080P@ 25/30fps, 720P@ 50/60fps, 720P@ 25/30fpsAHD Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsTVI Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsTVI Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsCVBS CameraPAL/NTSCIP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps)Bit Rate32Kbps ~6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio Sample Rate8KHz, 16 bit Per ChannelAudio Sample Rate64Kbps Per ChannelAudio Bit Rate1 +DMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/ 	Video and Audio				
AHD Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsTVI Camera4MP, 1080P@ 25/30, 720P@ 25/30fpsCVBS CameraPAL/NTSCIP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateD1/CIF (1~25/30fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode enabled: 1/4/ When IP extension mode enabled: 1/4/6	Analog Camera Input	4 Channel, BNC			
TVI Camera4MP, 1080P@25/30, 720P@25/30fpsTVI CameraPAL/NTSCIP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode enabled: 1/4 When IP extension mode enabled: 1/4/6	HDCVI Camera	4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps			
CVBS CameraPAL/NTSCIP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingImage: CompressionCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateDI/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps~6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1 st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	AHD Camera	4MP, 1080P@25/30, 720P@25/30fps			
IP Camera Input4+2 Channel, each channel up to 6MPAudio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI, I VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	TVI Camera	4MP, 1080P@ 25/30, 720P@ 25/30fps			
Audio In/Out1/1, RCATwo-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI, I VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	CVBS Camera	PAL/NTSC			
Two-way TalkReuse audio in/out, RCARecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelDisplayInterfaceInterface1 HDMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	IP Camera Input	4+2 Channel, each channel up to 6MP			
RecordingCompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelDisplay1HDMI,1 VGAInterface1 HDMI,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	Audio In/Out	1/1, RCA			
CompressionH.265+Resolution4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelDisplay1 InterfaceInterface1 HDMI, 1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	Two-way Talk	Reuse audio in/out, RCA			
ResolutionAM-N, 1080P, 1080N, 720P, 960H, DI, CIFRecord RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	Recording				
Record RateMain stream:4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplay114DM1,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	Compression	H.265+			
Record RateD1/CIF (1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDM1,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	Resolution	4M-N, 1080P, 1080N, 720P, 960H, D1, CIF			
Record ModeManual, Schedule (General, Continuous), MD (Video detection Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplayInterface1 HDMI,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	Record Rate	D1/CIF (1~25/30fps)			
Record ModeMotion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface1 HDMI,1 VGAResolution1920×1080, 1280×1024, 1280×720Multi-screen DisplayWhen IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6OSDCamera title, Time, Video loss, Camera lock, Motion detection	Bit Rate	32Kbps ~ 6144Kbps Per Channel			
Record Interval record: 10 ~ 300 sec   Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM   Audio Sample Rate 8KHz, 16 bit Per Channel   Audio Bit Rate 64Kbps Per Channel   Display Interface   Interface 1 HDMI , 1 VGA   Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4, When IP extension mode enabled: 1/4/6	Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop			
Audio Sample Rate 8KHz, 16 bit Per Channel   Audio Bit Rate 64Kbps Per Channel   Display Interface   Interface 1 HDMI,1 VGA   Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4/6   OSD Camera title, Time, Video loss, Camera lock, Motion detection	Record Interval				
Audio Bit Rate 64Kbps Per Channel   Dispby Interface   Interface 1 HDMI ,1 VGA   Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6   OSD Camera title, Time, Video loss, Camera lock, Motion detection	Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM			
Display   Interface 1 HDMI ,1 VGA   Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4/6   OSD Camera title, Time, Video loss, Camera lock, Motion detection,	Audio Sample Rate	8KHz, 16 bit Per Channel			
Interface 1 HDMI ,1 VGA   Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6   OSD Camera title, Time, Video loss, Camera lock, Motion detection,	Audio Bit Rate	64Kbps Per Channel			
Resolution 1920×1080, 1280×1024, 1280×720   Multi-screen Display When IP extension mode not enabled: 1/4   OSD Camera title, Time, Video loss, Camera lock, Motion detection,	Display				
Multi-screen Display When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6   OSD Camera title, Time, Video loss, Camera lock, Motion detection,	Interface	1 HDMI ,1 VGA			
Multi-screen Display When IP extension mode enabled: 1/4/6 OSD Camera title, Time, Video loss, Camera lock, Motion detection,	Resolution	1920×1080, 1280×1024, 1280×720			
	Multi-screen Display				
	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording			

## Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips				
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis				
Alarm input	N/A				
Relay Output	N/A				
Playback and Backup					
Playback	1/4				
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)				
Playback 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				
Backup Mode	USB Device/Network				
Storage					
Internal HDD	1 SATA Port, up to 6TB capacity				
eSATA	N/A				
Auxiliary Interface					
USB	2 USB 2.0				
RS232	N/A				
RS485	1 Port, for PTZ Control				
Electrical					
Power Supply	DC12V/2A				
Power Consumption (without HDD)	<10W				
Construction					
Dimensions	Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")				
Net Weight (without HDD)	0.9kg (2.0 lb)				
Gross Weight	1.6kg (3.5 lb)				
Installation	Desktop installation				
Environmental					
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH				
Storage Conditions	-20°C ~+70°C (-4°F ~ +158°F) , 0~90% RH				
Third party Support					

Third-party Support



Network				
Interface	1 RJ-45 Port (100M)	Third-party Support	Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,	
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (DVR, NVS, etc.)		Sanyo, Sony, Videotec, Vivotek, and more	
Max. User Access	128 users			
Smart Phone	iPhone, iPad, Android			
Interoperability	ONVIF 16.12, CGI Conformant			