



KHARAGPUR DIVISIONAL OFFICE

Jeevan Bima Sarani, Malancha, P.O. Nimpura, Kharagpur Dist. Paschim Midnapore.

TECHNICAL SPECIFICATION

A. 3MP IP IR Indoor Dome Camera

Parameters	Description	Compliance
Image Sensor	Image Device : 1/3" CMOS ICR	
Effective Pixels	2096 X 1561 (3 Mega pixel)	
Video Compression	H.264/MJPEG	
Video Streams	Triple Streams	
Power Supply	DC 12 V & PoE (25% +- fluctuation Voltage supported)	
Operating Temperature	-30~60C	
WDR	3D DNR, DWDR	
Lens	3.3 – 12 mm vari-Focal Lens	
IR Range	IR Range : up to 30m	
Network Adaptivity	NAA (Network-auto-Adaptivity)	
Anti Reflection	IR anti-reflection Window	
Defog	Defog	
Power Consumption	Wide Voltage range of +-25%	
Surge Protection	4kv surge protection designed for network interface	
WDR	WDR Digital	
Weather Rating	IP66	
Interface	ONVIF	
Protocol	Protocol :- IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, Qos, DNS, DDNS, NTP, FTP, UPnP, HTTP.	
Certification	Certification – FCC , CE & UL	
Make	Bosch/Pelco/Panasonic/Siemens/Samsung/Honeywell/Hikvision/Sony/Methodex/Axis/Godrej.	



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B. 3 MP Network IR bullet Camera.

Parameters	Description	Compliance
Image Sensor	1/3", 3 Megapixel , Progressive Scan CMOS	
Effective Pixels	2096 X 1561 (3 Megapixel)	
Video Compression	H.264/MJPEG	
Day/Night	IR Cut Filter with Auto Switch (ICR)	
Min Illumination	Color: 0.06 LUX (F1.4, 50IRE) Black and White : 0.03 LUX (F1.4, 50IRE)	
Lens	3.3 – 12 mm vari-focal Lens.	
Frame Rate	960P (1280*960) 30fps ; 720P (1280*720) 30fps ; D1 (720*576) 25 fps	
OSD	Up to 8 OSDs	
Video Streaming	Dual	
Privacy Mask	Up to 4 areas	
Two-Way Audio	Two Way Audio	
Edge Storage	Micro SD, up to 32 GB	
Protocols	L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP	
Compatible Integration	ONVIF , IMOS, API	
Power Supply	12V DC , or PoE(IEEE802.3 af)	
Weather Rating	IP66	
Interface	ONVIF	
Working Environment	-35C~+60C , Humidity <=90% RH (Non Condensing)	
Certification	Certification -FCC , CE & UL.	
Make	Bosch/Pelco/Panasonic/Siemens/Samsung/Honeywell/Hikvision/Sony/Methodex/Axis/Godrej.	



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C. 4 Channel NVR

Parameters	Description	Compliance
1. System		
Main Processor	Dual- Core Embedded Processor	
Operating System Language	Embedded Linux	
2. Video / Audio		
IP Camera Input	4 Channel (only E-series Camera)	
Audio	1 Channel Input (RCA) , 1 channel output(RCA)	
3. Display		
Interface	1 HDMI , 1 VGA	
Resolution	1920 X 1080, 1280 X 1024, 1280 X 720 , 1024 X 768.	
Display Split	1/4	
OSD	Camera title, Time, Video Loss , Camera Lock, Motion detection , Recording.	
4. Recording		
Compression resolution	H.264 / MJPEG	
Resolution	3Mp(2048x1536) / 1080p (1920x1080) /720p (1280 x 720) / D1 (704 x 480) /VGA	
Maximum Bandwidth	Total 200 Mbps or Less	
Bit Rate	48-8192 kbps	
Record Mode	Mnual, Schedule(Regular(continuous, VMD, Alarm) , Stop	
Record Interval	Recording duration: 1-120 min(default :60 min), Pre Record : 1-30 sec , Post Record : 10 – 300 Sec.	
5. Video Detection and Alarm		
Alarm Action	Recording, PTZ, Tour , Alarm , Video Push , Email , FTP , Buzzer & Alarm pop-up.	
Video Detection	Video Motion Detection , Camera Blank.	
Alarm Input	4 Channel	
Relay Input	2 Channel	
6. Play Back and Backup		
Sync Play back	1/4	
Search Mode	Time/Date , Alarm , VMD and exact search (accurate to second) , Smart Search.	

Playback Function	Play,Pause,Stop,Rewind,Fast Play,Slow Play,Next le,Previous le,Next Camera,Previous Camera,Full Screen,Repeat,Backup selection,Digital Zoom.	
Backup mode Network Ethernet	USB Device / Network.	
7. Network		
Ethernet	1 RJ45 Port (10/100/1000 Mbps)	
PoE	4 ports (IEEE802.3at)	
Network Function	HTTP,TCP/IP,IPv4/IPv6,UPnP,RTSP,UDP,SMTP,NTP,DHCP,DNS,IP Filter,PPPoE,DDNS,FTP,Alarm Server,IP Search.	
Max User Access	128 users	
Smart Phone	Iphone,iPad,Android	
8.Storage		
Internal HDD	2 SATA ports, up to 4 TB	
External Interface USB	2 Ports(One Rear USB3.0 , One Front USB2.0)	
9. General		
Safety / EMS Standard	<safety> : CE,IEC60950-1 <EMC> ; EN55022 Class B , EN55024.	
Power Supply	DC48V / 1.04A (For PoE)	
Power Consumption	NVR : 30W(Without HDD) PoE : 2.5W for Single port.	
Ambient	-10C~+55C/10% to 90% RH / 86~106 kpa.	
Dimension (WDXDH)	375 mm(W) X 278 mm(D) X 52 mm(H) / 2 kg.	
Make	Bosch/Pelco/Panasonic/Siemens/Samgsung/Honeywell/Hikvision/Sony/Methodex/Axis/Godrej.	

D : 8 Channel NVR

Parameters	Description	Compliance
<u>1. System</u>		
Main Processor	Dual- Core Embedded Processor	
Operating System Language	Embedded Linux	
<u>2.Video / Audio</u>		
IP Camera Input	8 Channel (only E-series Camera)	
Audio	1 Channel Input (RCA) , 1 channel output(RCA)	
<u>3. Display</u>		

Interface	1 HDMI , 1 VGA	
Resolution	1920X 1080,1280 X 1024,1280 X 720 ,1024 X 768.	
Display Split	1/4/8/9	
OSD	Camera title, Time, Video Loss , Camera Lock, Motion detection , Recording.	
<u>4. Recording</u>		
Compression resolution	H.264 / MJPEG	
Resolution	3 Mp(2048 x1536) / 1080p (1920x1080) / 720p (1280 x 720) / D1 (704 x 480) / VGA (640 x 480)	
Maximum Bandwidth	Total 200 Mbps or Less	
Bit Rate	48-8192 kbps	
Record Mode	Manual,Schedule(Regular(continuous,VMD,Alarm) , Stop	
Record Interval	Recording duration: 1-120 min(default :60 min),Pre Record : 1-30 sec , Post Record : 10 – 300 Sec.	
<u>5. Video Detection and Alarm</u>		
Alarm Action	Recording, PTZ,Tour , Alarm , Video Push , Email , FTP , Buzzer & Alarm pop-up.	
Video Detection	Video Motion Detection , Camera Blank.	
Alarm Input	4 Channel	
Relay Input	2 Channel	
<u>6. Play Back and Backup</u>		
Sync Play back	1/4/8	
Search Mode	Time/Date , Alarm , VMD and exact search (accurate to second) , Smart Search.	
Playback Function	Play,Pause,Stop,Rewind,Fast Play,Slow Play,Next le,Previous le,Next Camera,Previous Camera,Full Screen,Repeat,Backup selection,Digital Zoom.	
Backup mode Network Ethernet	USB Device / Network.	
<u>7. Network</u>		
Ethernet	1 RJ45 Port (10 / 100 / 1000 Mbps)	
PoE	8 ports (IEEE802.3at)	
Network Function	HTTP,TCP/IP,IPv4 /IPv6,UPnP,RTSP,UDP,SMTP,NTP,DHCP,DNS,IP Filter,PPPoE,DDNS,FTP,Alarm Server,IP Search.	
Max User Access	128 users	
Smart Phone	Iphone,iPad,Android	
<u>8.Storage</u>		

Internal HDD	2 SATA ports, up to 8 TB	
External Interface USB	2 Ports(One Rear USB3.0 , One Front USB2.0)	
<u>9. General</u>		
Safety / EMS Standard	<safety> : CE,IEC60950-1 <EMC> ; EN55022 Class B , EN55024.	
Power Supply	AC 100 TO 240V , 50/60Hz (fOR Main Unit)	
Power Consumption	NVR : 30W(Without HDD) PoE : 2.5W for Single port.	
Ambient	-10C~+55C/10% to 90% RH / 86~106 kpa.	
Dimension (WDXH)	375 mm(W) X 278 mm(D) X 52 mm(H) / 2.5 kg.	
Make	Bosch/Pelco/Panasonic/Siemens/Samsung/Honeywell/Hikvision/Sony/Methodex/Axis/Godrej.	

E : 16 Channel NVR

Parameters	Description	Compliance
<u>1. System</u>		
Main Processor	Dual- Core Embedded Processor	
Operating System Language	Embedded Linux	
<u>2.Video / Audio</u>		
IP Camera Input	16 Channel (only E-series Camera)	
Audio	1 Channel Input (RCA) , 1 channel output(RCA)	
<u>3. Display</u>		
Interface	1 HDMI , 1 VGA	
Resolution	1920X 1080,1280 X 1024,1280 X 720 ,1024 X 768.	
Display Split	1/4/8/9/16	
OSD	Camera title, Time, Video Loss , Camera Lock, Motion detection , Recording.	
<u>4. Recording</u>		
Compression resolution	H.264 / MJPEG	
Resolution	3 Mp(2048 x1536) / 1080p (1920x1080) / 720p (1280 x 720) / D1 (704 x 480) / VGA (640 x 480)	
Maximum Bandwidth	Total 200 Mbps or Less	
Bit Rate	48-8192 kbps	
Record Mode	Manual,Schedule(Regular(continuous,VMD,Alarm) , Stop	
Record Interval	Recording duration: 1-120 min(default :60 min),Pre Record : 1-30 sec , Post Record : 10 – 300 Sec.	

<u>5. Video Detection and Alarm</u>		
Alarm Action	Recording, PTZ,Tour , Alarm , Video Push , Email , FTP , Buzzer & Alarm pop-up.	
Video Detection	Video Motion Detection , Camera Blank.	
Alarm Input	16 Channel	
Relay Input	4 Channel	
<u>6. Play Back and Backup</u>		
Sync Play back	1/4/8/16	
Search Mode	Time/Date , Alarm , VMD and exact search (accurate to second) , Smart Search.	
Playback Function	Play,Pause,Stop,Rewind,Fast Play,Slow Play,Next le,Previous le,Next Camera,Previous Camera,Full Screen,Repeat,Backup selection,Digital Zoom.	
Backup mode Network Ethernet	USB Device / Network.	
<u>7. Network</u>		
Ethernet	1 RJ45 Port (10 / 100 / 1000 Mbps)	
PoE	16 ports (IEEE802.3at)	
Network Function	HTTP,TCP/IP,IPv4 /IPv6,UPnP,RTSP,UDP,SMTP,NTP,DHCP,DNS,IP Filter,PPPoE,DDNS,FTP,Alarm Server,IP Search.	
Max User Access	128 users	
Smart Phone	Iphone,iPad,Android	
<u>8.Storage</u>		
Internal HDD	2 SATA ports, up to 8 TB	
External Interface USB	2 Ports(One Rear USB3.0 , One Front USB2.0)	
<u>9. General</u>		
Safety / EMS Standard	<safety> : CE,IEC60950-1 <EMC> ; EN55022 Class B , EN55024.	
Power Supply	AC 100 TO 240V , 50/60Hz (fOR Main Unit)	
Power Consumption	NVR : 30W(Without HDD) PoE : 2.5W for Single port.	
Ambient	-10C~+55C/10% to 90% RH / 86~106 kpa.	
Dimension (WDXH)	375 mm(W) X 278 mm(D) X 52 mm(H) / 6 kg.	
Make	Bosch/Pelco/Panasonic/Siemens/Samgsung/Honeywe ll/Hikvision/Sony/Methodex/Axis/Godrej.	