SPECIFICATIONS OF NVR

Brand	**BOSCH**
Model	**To be mentioned**
IP Camera Input	32 Channel
Processor & RAM	Embedded P/R
HDD Capacity	4 HDD up to 6 TB each Port
Operating System	Embedded (Linux)
Recording	
Decoding compression	H.264/MJPEG
Speed	Max. 30 IPS per channel, configurable
Bit rate	16 kbps to 24 Mbps per channel
Record interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Mode	Manual, Scheduled (regular, motion detection, alarm), Stop
Resolution	12MP, 8MP, 6MP, 5MP, 3MP, 1.3MP, 1080p, 720p
Alarms and detections	
Motion detection set by camera	Essential or Intelligent Video Analytics (IVA), Motion +
Alarm activations	Video loss, motion detection, input alarm, system alarm
Events triggered by alarm	Recording, PTZ movement, alarm out, email, buzzer, screen message, Mon A and A1 activated,
Inputs	16 inputs configurable NO/NC, max. input voltage 5 VDC
Outputs	5 relay outputs, 1 open collector output
Relay contact	Max. rated, 30 VDC, 2 A continuous or 125 VAC, 1 A (activated)
Exporting	
DVD (optional)	Built-in DVD+R/RW writer
USB	Flash memory or external HDD (FAT32)
Network	Web Client software or Video Client (not available in first release)
eSATA	External drive
Playback	
Multi-channel	Simultaneous 1/4/9/16/32 channels
Mode	Forward, reverse, slow play, fast play, frame-by-frame
Search	Time, channel, type, smart
Network	Video Client (not available in first release), Web client, App
Restrict	Restrict video by user rights for viewing
Protection	Protect video against overwriting
Retention time	Automatically delete recordings after 1 to 365 days
Network control	
Ethernet	RJ45 port (10/100/1000 Mbps)
PC software	Video Client (not available in first release), Web client
APPs	iPhone, Android
User access	Maximum 128 users
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS/DDNS, IP Filter, PPPoE, FTP

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Video performance	
Maximum IP camera channels	32
Maximum incoming bandwidth	320 Mbps
Maximum recording bandwidth	320 Mbps
Maximum transmission bandwidth	320 Mbps
Display	
Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768
OSD	Camera title, Time, Video loss, Motion detection, Recording, PTZ
Audio	
MIC Input	1 channel (via RCA) 200 to 3000 mV, 10 kOhm
Output	1 channel (via RCA) 200 to 3000 mV, 5 kOhm
Direction	Bidirectional (audio input and output connected via device)
Power	
External power adapter AC input (without PoE)	100–240 VAC; 50-60 Hz; 1.9 A, 75 W
AC input (with PoE)	100–240 VAC; 50-60 Hz; 5 A; 350 W
RTC battery on main PCB	Lithium CR2032, 3 VDC
Maximum main power consumption (no HDD)	8.7 W without PoE 15.2 W with PoE
Mechanical	
Dimensions (WxDxH)	440 x 408 x 76 mm (17.3 x 16.1 x 3.0 in)
Weight without PoE switch (excluding HDD(s) and DVD)	6.27 kg (13.8 lb) approx.
Environmental	
Operating temperature (incl. HDD(s) and DVD)	+0°C to +40°C (+32°F to +104°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	<93% non-condensing
Storage humidity	<95% non-condensing
Certificates	UL, CE, FCC, RMC,
Installation & Configure	Item will be installation and configuration in CNS House without any data loss
Compatibility	Should be full featured compatible of existing cameras
Warranty	01(One) year.

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SPECIFICATIONS OF HDD

Internal (option)	Max. 4 SATA HDD Ccapacity per HDD: 4 TB Max. supported speed per HDD: 6 Gb/s
External (option)	eSATA-connected storage device