



TC-R3820 Spec:I/F/N/V4.0

8HDD 20ch AI NVR

Pro Series



KEY FEATURES

- Up to 20-ch IP camera accesses
- Incoming/Outgoing bandwidth: 256Mbps/256Mbps
- S+265, H.265, S+264, H.264 video formats
- Max. decoding capability: 16MP(30fps) × 3 or 1080P(30fps) × 20
- 16-ch synchronous playback
- Up to 24 TB capacity for each HDD
- Simultaneous HDMI1 and VGA1 outputs; Simultaneous HDMI2 and VGA2 outputs
- HDMI output at up to 4K resolution
- 2 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
- S+ 265 compression effectively reduces the storage space by up to 75%
- Support cloud upgrade



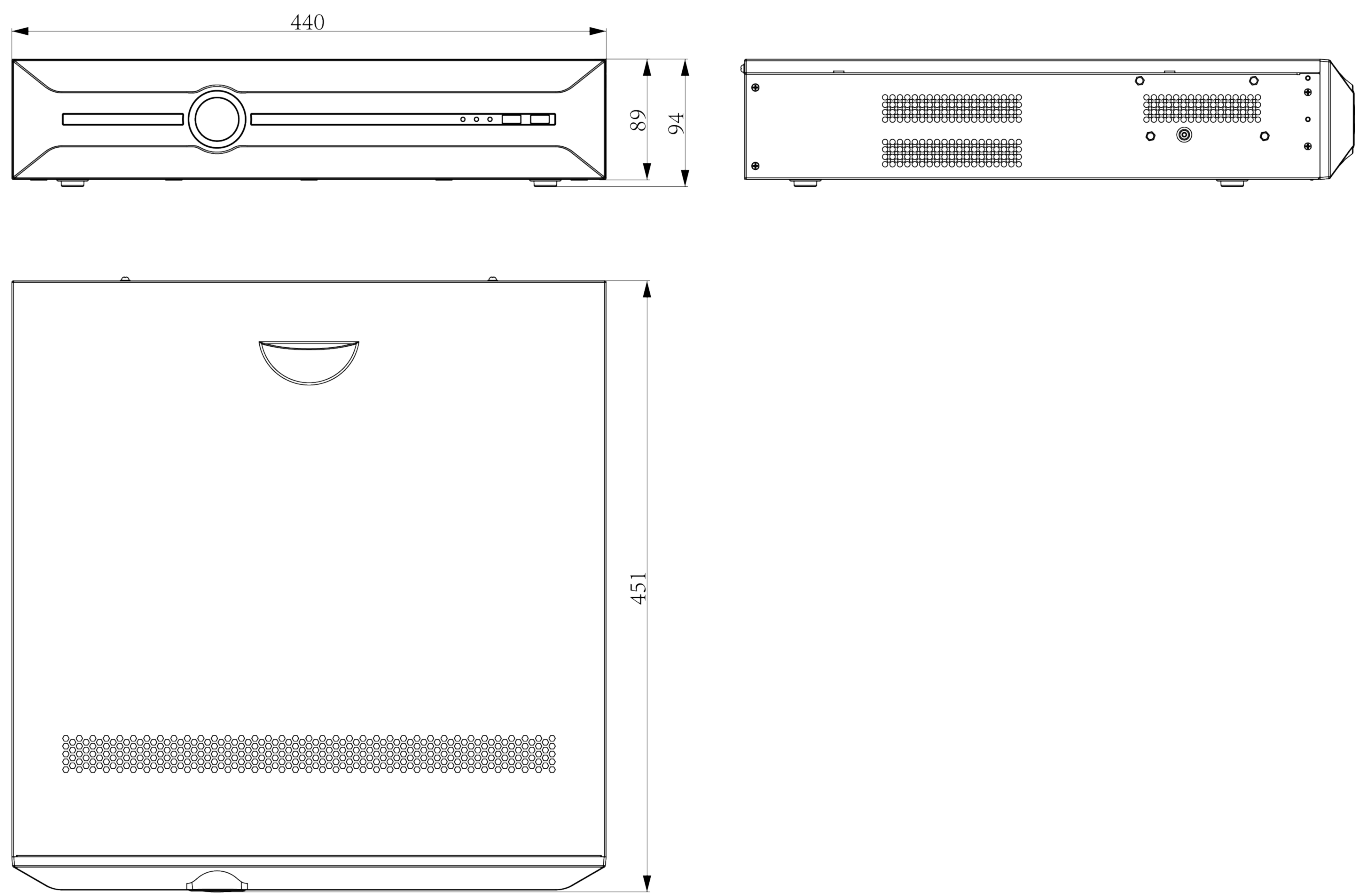
SPECIFICATIONS

| Video and Audio | |
|------------------------------|--|
| Access Channel | 20 |
| Incoming Bandwidth | 256Mbps |
| Outgoing Bandwidth | 256Mbps |
| Resolution | 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF |
| Preview Decoding Capability | 16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×18, 1080P(30fps)×20, 720P(30fps)×20 |
| Playback Decoding Capability | 16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×6, 6MP(30fps)×8, 5MP(30fps)×9, 4MP(30fps)×12, 3MP(30fps)×16, 1080P(30fps)×16, 720P(30fps)×16 |
| Third-party Camera Access | ONVIF; RTSP |
| HDMI Output | HDMI: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz), 2560×1440(30Hz/60Hz), 2560×1600(60Hz), (4K)3840×2160(30Hz/60Hz) |
| VGA Output | VGA: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz) |
| Multi-screen Display | Independent Output: HDMI1/VGA1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25 HDMI2/VGA2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25 |
| Audio Input | 1-ch, 3.5mm |
| Audio Output | 1-ch, 3.5mm; BNC |
| Two-Way Audio | 1-ch, 3.5mm, using the audio input |
| Compression | |
| Video | S+265; H.265; S+264; H.264 |
| Audio | G711A; G711U; AAC; ADPCM_DIV4 |
| Stream Type | Video; Video & Audio |
| Network | |
| Network Protocol | ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP v1; SRTP; SSH; SSL; TLSv1.2; TCP/IP; UDP; Unicast; UPnP |
| Mobile Phone Access | Android; iOS; P2P |
| System Compatibility | ONVIF(Profile S/T/G); RTSP; CGI; SDK |
| Web | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+ |
| Record Playback | |
| Multi-channel Playback | 16 |
| Record Mode | Manual Recording; Alarm Recording; Schedule Recording |
| Storage Method | Local HDD, eSATA |
| Backup | USB storage device, eSATA, Network |
| Playback Function | Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom |
| Dual Stream Record | Yes |
| Alarm | |
| General Alarm | Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR); Manual Alarm |

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| Exceptions Alarm | Video Loss; IP Conflict; MAC Conflict; Network Disconnected; No Disk; Illegal Access; Disk group space alert; Disk Full; Disk R/W Error; Recording Abnormal; Abnormal found in smart of disk; Abnormal temperature of the disk; Hot-spare Exception; Array Exception; Voltage Alarm(IPC); RTC Failure |
| Intelligent Analytics | |
| AI by Camera | Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Loiter; Running; Parking; Heatmap; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crowd Detection; Parking Guard; Safety Helmet Detection; Electric Bicycle Detection; People Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection; Human Body Temperature Measurement; Smart Motion; Face Recognition; Human/Vehicle Classification |
| AI by NVR | Face Detection; Face Recognition |
| VCA Search | Heatmap; Early-warning Search; Behavior Search; License Plate Search; Safety Helmet Search; Thermographic Retrieval; Duty Search; Electric Bicycle Retrieval; Face Search |
| Face Detection | |
| Face Attributes | Gender; Age; Glasses; Face Mask; Beard; Body Temp. |
| Face Recognition | |
| Performance | 8-ch video streams; 16-ch image streams |
| Face Picture Library | Up to 32 face libraries, up to 100000 base images Up to 100000 face pictures in stranger library |
| Face Picture Comparison | Face Picture Comparison |
| Comparison Speed(Captured from Camera) | 16 pictures per second |
| Comparison Speed(Captured from NVR) | 8 pictures per second |
| Storage | |
| HDD Capacity | Up to 24 TB capacity for each HDD |
| Disk Group | 8 Disk Group |
| RAID | JBOD, RAID0, RAID1, RAID5, RAID6, RAID10, RAID50, RAID60 (To enable RAID, please use surveillance-grade AI disks or enterprise-class disks.) |
| External Port | |
| eSATA | 1×eSATA |
| USB | 2×USB2.0; 1×USB3.0 |
| HDMI | 2×HDMI(supports up to 4K resolution output) |
| VGA | 2×VGA |
| Network Interface | 2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port |
| SATA | 8×SATA interface |
| RS232 | 1×RS232 |
| RS485 | 2×RS485 |
| Alarm I/O | 16-ch, TTL inputs, 3mA, 3.3VDC; 8-ch, relay outputs, 1A, 24VDC |
| Controllable 12V | Controllable 12V DC, 1A power output for external alarm device; The power will be turned on when the alarm output is triggered. |
| General | |

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| UI Language | Simple Chinese; Traditional Chinese; English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian |
| Power Supply | 100~240V AC |
| Power Consumption | <28W(HDD not included, idling) |
| NetWeight | 7.3Kg |
| GrossWeight | 9.45Kg |
| Boundary Dimensions | 440(L)451(W)94(H)mm |
| Package Dimensions | 565(L)565(W)220(H)mm |
| Operating Temperature | -10°C~+55°C (+14°F~+131°F) |
| Operating Humidity | 10%~90%RH (non-condensing) |
| Storage Temperature | -20°C~+60°C (-4°F~+140°F) |
| Package Kit | Network Video Recorder; Screw Pack; Mouse; European Standard Power Cord; 2×Ear Plate; 8×SATA Hard Disk Data Cable |

DIMENSIONS (Unit: mm)



Physical Interfaces

