

# Micron Black Diamond 5 Series IQ 8Ch NVR With 8 POE Ports. 4Tb HDD

IPN84I



## Features

- Support Ultra 265/H.265/H.264 video formats
- 4/16-channel input
- Plug & Play with 4/8 independent PoE network interfaces
- Support mainstream cameras of ONVIF conformance (Profile S, Profile G, Profile T ) and RTSP protocols
- Support 1-ch HDMI, 1-ch VGA. HDMI up to 4K (3840x2160) resolution
- VGA and HDMI simultaneous output
- Up to 16 Megapixels resolution recording
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade

## Specifications

|                                 |                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decoding                        |                                                                                                                                                                        |
| Decoding Format                 | Ultra 265, H.265, H.264                                                                                                                                                |
| Decoding Capability             | Smart Off: 2 x 16MP@30, 2 x 12MP@30, 4 x 4K@30, 8 x 4MP@30<br>Smart On: 2 x 12MP@30, 2 x 4K@30, 6 x 4MP@30, 8 x 3MP@30                                                 |
| Decoding Capability Description | The resolution of each channel cannot exceed 8192 pixels in length and 4096 pixels in width                                                                            |
| Audio Compression               | G.711A, G.711U                                                                                                                                                         |
| Network                         |                                                                                                                                                                        |
| Incoming Bandwidth              | 80 Mbps                                                                                                                                                                |
| Outgoing Bandwidth              | 80 Mbps                                                                                                                                                                |
| Remote Users                    | 128                                                                                                                                                                    |
| Protocols                       | TCP/IP, P2P, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, RTSP, IPv6, IPv4                                                                                    |
| Browser (Plugin)                | IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+                                                                                                                          |
| Video/Audio Input               |                                                                                                                                                                        |
| IP Video Input                  | 8-ch                                                                                                                                                                   |
| RCA Audio Input                 | 1-ch                                                                                                                                                                   |
| Peripheral Input                |                                                                                                                                                                        |
| Ip Speaker                      | 16-ch                                                                                                                                                                  |
| POS                             | All channels                                                                                                                                                           |
| Video/Audio Output              |                                                                                                                                                                        |
| Video Output                    | Support 1-ch HDMI, 1-ch VGA, HDMI and VGA simultaneous output                                                                                                          |
| HDMI Output                     | 4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz                                 |
| VGA Output                      | 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz                                                         |
| RCA Audio Output                | 1-ch                                                                                                                                                                   |
| Liveview Display                | 1/4/6/8/9                                                                                                                                                              |
| Corridor Mode Screen            | 3/4/5/7/9                                                                                                                                                              |
| Two-way Audio                   |                                                                                                                                                                        |
| Two-way Audio                   | 1-ch, RCA (Using the audio input and output)                                                                                                                           |
| Snapshot                        |                                                                                                                                                                        |
| FTP/Schedule/Event Snapshot     | 4-ch snapshot (max. 8 MP (3840 × 2160) video resolution, with 1080P snapshot resolution)                                                                               |
| Recording                       |                                                                                                                                                                        |
| Recording Resolution            | 16 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF                                                                                                       |
| Num of Concurrent Playback      | 16-ch                                                                                                                                                                  |
| Smart                           |                                                                                                                                                                        |
| Smart by IPC                    | All channels (up to 8 images/s in total) Face Detection, Face Comparison, Vehicle Detection (LPR), Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart by NVR                   | Face Detection, Face Comparison, Smart Intrusion Prevention (SIP), Ultra Motion Detection (UMD)                                                                                                                                                                                                                                                                                                                           |
| VCA Search                     | AcuSearch, AcuTrack, Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Heat Map                                                                                                                                                                                                                                    |
| AcuSearch                      | All channels with UNV SIP/UMD Camera, Up to 8-ch with normal camera (UNV and Third-part brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)                                                                                                                                                                                                                                                                                               |
| AcuTrack                       | All channels with UNV SIP/UMD Camera, Up to 8-ch with normal camera (UNV and Third-part brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)                                                                                                                                                                                                                                                                                               |
| by NVR                         | Up to 8-ch with UNV Face Detection Camera, Up to 2-ch with normal camera (UNV and Third-part brand, 2-ch 2MP, 1-ch 4MP)                                                                                                                                                                                                                                                                                                   |
| Vehicle Picture Library        | Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total                                                                                                                                                                                                                                                                                                                                            |
| SIP by NVR with normal cameras | Up to 4-ch with normal camera (UNV and Third-part brand, 4-ch 2MP, 2-ch 4MP, 1-ch 4K)                                                                                                                                                                                                                                                                                                                                     |
| UMD by NVR with normal cameras | Up to 8-ch with normal camera (UNV and Third-part brand, 8-ch 2MP, 4-ch 4MP, 2-ch 4K)                                                                                                                                                                                                                                                                                                                                     |
| Capacity of Snapshot Records   | 500 thousand records for face snapshot, One and a half millions records for SIP and vehicle                                                                                                                                                                                                                                                                                                                               |
| Alarm                          |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Alert Alarm                    | IP Conflict, Network Disconnected, Disk Offline, Disk Abnormal, Illegal Access, Hard Disk Space Low, Hard Disk Full, Recording/Snapshot Abnormal, Array Damaged, Array Degraded                                                                                                                                                                                                                                           |
| GUI Language                   |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| GUI Language                   | 38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian |
| Hard Disk                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SATA                           | 1 SATA Interface                                                                                                                                                                                                                                                                                                                                                                                                          |
| Capacity                       | Up to 24 TB for each HDD (The maximum HDD capacity varies with environment temperature and hard disk size, The environment temperature for use should not exceed 40°C)                                                                                                                                                                                                                                                    |
| External Interface             |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Network Interface              | 1 RJ45 10 M/100 M self-adaptive Ethernet Interface                                                                                                                                                                                                                                                                                                                                                                        |
| Network Working Mode           | Single port, not involved                                                                                                                                                                                                                                                                                                                                                                                                 |
| USB                            | Front panel: 1 × USB2.0, Rear panel: 1 × USB3.0                                                                                                                                                                                                                                                                                                                                                                           |
| RS485                          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RS232                          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Alarm In                       | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Alarm Out                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power Supply                   | DC 52 V/1.8 A                                                                                                                                                                                                                                                                                                                                                                                                             |
| PoE                            |                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PoE Interface                  | 8 RJ45 10 M/100 M self-adaptive Ethernet Interface                                                                                                                                                                                                                                                                                                                                                                        |
| Max Power                      | Max 30 W for single port, Max 75 W in total                                                                                                                                                                                                                                                                                                                                                                               |

|                                 |                                                    |
|---------------------------------|----------------------------------------------------|
| Supported Standard              | IEEE 802.3at, IEEE 802.3af                         |
| Working Environment             |                                                    |
| Working Temperature             | -10 °C to 50 °C (14 °F to 122 °F)                  |
| Working Humidity                | ≤ 90% RH (non-condensing)                          |
| Power Consumption (without HDD) | ≤ 8W                                               |
| Dimensions                      |                                                    |
| Weight (without HDD)            | ≤ 1Kg (2.2lb)                                      |
| Height                          | 1U                                                 |
| Dimensions                      | 260mm × 215mm × 46.6mm (10.2" × 8.5" × 1.8" )      |
| Certification                   |                                                    |
| Certification                   | CE; FCC; UL; RoHS; WEEE                            |
| CE                              | EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035 |
| FCC                             | Part15 Subpart B                                   |

## Rear Panel

