



16 Channel 4K Embedded NVRs

PIXEL MASTER NR-16F85-8PRA

Features:

- Supports 4K Live Display
- Up to 4K Recording
- 3TB-20TB HDD
- Built-in PoE Switching Hub
- Automatic Router Port Forwarding
- FW Upgradable by USB or Network
- Supports P2P - Network Setup by QR Code Scan
- Network Ports (WAN/LAN) - 2 each
- HDD Failure Notification (S.M.A.R.T)
- PC & Web-based Remote Agent, Smartphone Applications
- Plug and Play PixelPro IP Cameras with No Configuration Required

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■ Specifications

| MODEL | | NR-16F85-8PRA |
|--------------------|-------------------------|---|
| Channels | | 16CH |
| VIDEO | Input Signal | 16 x IP Camera (Max 8MP) |
| | Main Monitor | VGA or HD Display |
| | Main Monitor Resolution | 2160p / 1080p / 720p / SXGA |
| | Spot | - |
| | Motion Detection | Yes (From IP Camera) |
| AUDIO | Input Signal | 16 CH (From IP Camera) |
| | Output Signal | 1CH |
| | Microphone | 1CH |
| | CODEC | G.711 |
| RECORDING | CODEC | H.264 / H.265 |
| | Rec. Rate | Max. 30 FPS@9MP/CH (Depends on IP Camera) |
| | Rec. Resolution | Max. 9MP (Depends on IP Camera) |
| ALARM I/O | Alarm Input | 16 CH (IP) + 2 CH (Internal) (Depends on IP Camera) |
| | Alarm Out | 16 CH (IP) + 1 RELAY (Internal) (Depends on IP Camera) |
| STORAGE | Internal HDD | 5 EA |
| | External Storage | YES (eSATA, NAS (for backup)) |
| | Internal ODD | NONE |
| INTERFACE | USB | 3 ports |
| | Interface | 1 RS-485 / 1 RS-232 |
| | LAN | 8 (IP Camera, PoE (802.3at)) + 2 (LAN) + 2 (WAN) |
| | Remote Control | YES |
| HUB | Network | 2GE + 8GE(PoE) |
| | Total PoE Power | 72W |
| | Manageable by IPX | ARM9 interior |
| | Adaptor | 48V, 96W |
| ADDITIONAL | Watchdog | YES |
| | Cooling Fan | 1EA |
| POWER | Power Supply | SMPS 12V 100W + SMPS 52V 100W |
| | Power Consumption | 15W max. without HDD |
| ENVIRONMENT | Temperature / Humidity | 32°F~104°F (0°C ~ 40°C) / 10 ~ 90% NC |
| CHASSIS | Dimensions (mm) | 2U - 16.9" x 14.4" x 3.5" (430 x 367 x 88.4mm) |
| | Weight | 11 lbs. (5 Kg) |
| CERTIFICATIONS | UL, CUL, FCC, CE | UL, cUL, FCC, CE, KC, C-tick |
| MONITORING | Display Rate | Up to 480fps/400fps (Real-time) |
| | Decoding Rate | Max Total 120fps @ 8M |
| | Display Resolution | 2160p / 1080p / 720p / SXGA |
| | Display Mode | 1,4,8,9,16 |
| | Sequence | Programmable Sequence |
| | Digital Zoom | YES |
| | Covert | YES |
| | Camera Color Control | Yes (Contrast, Hue, Tiny, Brightness) (Depending on IP Camera) |
| | Camera Image Control | Yes (White Balance, Exposure, Flickerless) Depending on IP Camera |
| | Audio Monitoring | Yes (From IP Camera) |
| | Microphone | Yes (MIC to IP Camera) |
| PTZ Camera Support | YES (IP, RS485) | |
| RECORD | Schedule Method | Daily/Weekly Each Hour |
| | Programmable For Ch | Yes |
| | Record Time Limit | Yes |
| | Event Recording | Yes |
| | Intensive Recording | Yes (Motion / Alarm) |
| | Pre-Event Recording | 0/1/2/3/4/5/10/15 Sec |
| | Panic Recording | Yes |
| SEARCH & PLAYBACK | Display Mode | 1,4,9,16 |
| | Playback Rate | Up To 480FPs |
| | Playback Speed | X1, X2, X4, X16, X32, X64 |
| | Type | Calendar / Event / Time / Thumbnail |
| | Playback Zoom | Yes |
| Snapshot | Yes (JPEG) | |

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|---|--|--|
| ARCHIVING | Archiving Devices | USB Memory, FTP |
| | Remote Archiving | Yes (WEB RA, VMS, FTP) |
| | Snapshot Archiving | Yes |
| | Data Reserving | Yes |
| | Reserved Data List Management | Yes |
| | Backup Data Format | AVI, RAW |
| | Watermark | MD5 |
| | Watermark Verification | Yes |
| | Archived Data Playback | Yes |
| NETWORK | Max. Connections | 32 Users |
| | DHCP | Yes |
| | HTTPS | Yes |
| | SSL | Yes |
| | DDNS | Yes |
| | Transmission Rate | MAX 480 FPS |
| | Bandwidth Control | Yes |
| | Web Brower Access | Yes |
| | Remote Monitoring | Yes |
| | Remote Playback | Yes |
| | Remote Archiving | Yes |
| | Remote Health Check | Yes |
| | VMS Support | Yes |
| | Onvif Camera Support | Yes (Profile-S) |
| | Two-Way Audio | Yes |
| | PC Based Remote Agent | Yes |
| | Smart Phone Application | Yes (iPhone, iPad, Android) |
| | Web Based Remote Agent | Yes |
| | SDK | Yes (HTTP Based SDK, PC Codec Library) |
| | IP Filtering | Yes |
| | Auto Router Port Forwarding | Yes |
| | Dual Streaming | Yes |
| | FTP Client | Yes (For Archiving) |
| | E-Mail | Yes (SMTP Client) |
| Authority Control | Admin / Manager / User | |
| Auto IP Cam Installation (Plug and Display) | Yes | |
| Protocols | WS-Discovery, RTP, RTSP, RTCP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP (Router Port Forwarding), HTTPS, SSL | |
| WiFi | - | |
| EVENT & ACTIONS | Alarm Out | Yes |
| | Event Notification | Yes |
| | Video Popup | Yes |
| | Alarm Sensor Event | Yes |
| | Video Loss Event | Yes |
| | Motion Detection Event | Yes |
| | Motion Sensor Area | Dependant on IP Camera |
| | Disk Event | Yes |
| | System Event | Yes |
| Network Event | Yes | |
| STORAGE | Disk S.M.A.R.T Check | Yes (Dependant on HDD Spec) |
| | External Storage | Yes (eSATA, NAS (for Backup)) |
| | Auto Disk Recovery | Yes |
| | Deleting Partial Data | Yes |
| USER | Group Authority | Yes (Admin / Manger / User) |
| ADDITIONAL | Operating System | LINUX® |
| | F/W Upgrade | Yes (USB / Network) |
| | Setup Import/Export | Yes |
| | Keyboard Controller | No |
| | Backup Viewer | Yes (Multi-channel Playback Support) |
| | Language | Multi-Language |
| | Video Analytics | Yes, in combination with 4MP Ganz PixelPro Cameras |

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