



eBell Linux embedded 4U Server NVR series **NVR-xxx-URxx**

NVR Software Features

▶ Monitoring

- Linux OS, recording and display IP camera of M-JPEG, MPEG-4 and H.264
- Real-time monitoring and recording (video/audio) from multiple IP Cameras (32 ~ 128 is popular).
- Records image resolutions as high as the IP camera supports, including megapixel cameras.
- Support 2 monitors one for Live, another for Playback.
- Support channel new layout, by pulling any channel to desired position.
- Monitor resolution: 1280X768.
- Live display: 1, 4, 6, 7, 8, 9, 10, 13, 16, 17, 36, 49, 64 divisions and full screen display
- When event occurs, or scene changed, Triggered Channels will flash for attention.
- Real-time Video signal lose detection and notifications.
- Multi-channel playback at different speed
- Display Frame size and FPS data on Playback video.
- Editable Multi-layer E-Map for new camera and I/O icons, and display video on map.
- Internet Remote user management: setup control (logon up to 10 users), user administration, video backup, live viewing, and powerful search capabilities.
- Password / Multi-user management.
- Detailed event logs of system warning, hard disk error, network disconnection, users' networking services and recordings access record
- On screen IO device management.
- On screen PTZ control panel.
- Display and estimate Hard disk capacity and recording time.
- Digital watermarking



NVR-xxx-UR00
(No Inner RAID, 4U)



NVR-xxx-UR03
(Inner RAID 3 Bay, 4U)

▶ Recording

- Megapixel recording frame per second up to 30 f/s(NTSC), 25f/s(PAL), varies by IP camera models.
- Recording mode: view only/ motion/ alarm/ motion & alarm/ mixed mode/ continuous/manual/scheduled recording
- Adjustable recording quality and frame rate for each camera
- Event pre-alarm recording 5~30 seconds; Post-alarm recording 10~120 seconds.
- Adjustable file length: 5, 10, 15 minutes.
- Recording on local and remote end



NVR-xxx-UR06
(Inner RAID 6 Bay, 4U)

▶ Audio

- Audio recording features depending on IP cam spec

▶ Back up

- Support 4U / 4U 3- Bay / 4U 6-Bay Inner RAID function.
- NVR supports RAID 0, 1, and 5 disk configurations. Its hot-swap design allows a failed drive of a RAID disk volume to be replaced by hot swapping without turning off the server.
- CD-RW, DVD-RW, USB1.1 / 2.0.



▶ **Smart Search & Easy Playback**

- Digital zoom for single picture and motion picture.
- Snapshot and storage for single and multiple pictures.
- Support multi-channel time synchronized or not synchronized playback.
- Support single channel playback of different time intervals.
- Support video and audio synchronized playback.
- Support sec/min/hr picture preview, and to export or start playback by clicking picture of interest.
- Support single and multiple channels backup.



▶ **Alarm and Notification**

- Each camera can connect to any or all the sensors and select one or all different notifications.
- Event types: Video loss, Sensor triggered, Motion detection triggered.
- Alert notifications: Video loss, Sensor triggered, HD crushed, System crushed.
- Auto pop-up on e-Map when event occurred.
- Motion detection: 15 x 22 small blocks to set alarm area
- Internet watchdog: support multiple NVR cross monitoring.
- Support multiple Internet I/O devices.



▶ **Mobile Phone Application**

- Support 3G RTSP.

▶ **Integration (Optional):** POS, LPR, VCA (IVS), Access control, Digital I/O

▶ **Analytics (Optional):** Intelligent video system (IVS) Video content analysis (VCA).

- Motion detection, foreign object, missing object, scene change detection, out of focus, intrusion alarm and camera occlusion.

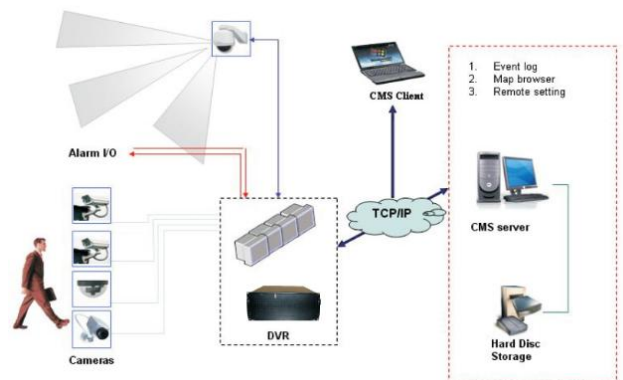


▶ **Networking and System**

- Support TCP/IP, PPPoE, DHCP, DDNS.
- Support NTP server..
- System log: system on/off, video loss, GUI, PTZ, schedule, Device manager.
- Support SMTP update on IP address for easy tracking (system reboots or with floating IP).
New IP address will be assigned and email to intend receiver for remote monitoring.
- Support USB firmware upgrade.

▶ **CMS (Central Management System)**

- eBell CMS can manage all eBell DVR, Hybrid DVR, NVR systems.
- Any eBell Hybrid DVR can be served as CMS Server.
- Support multiple monitors and e-Map.





Hardware Specification



NVR-xxx-UR00
(No Inner RAID, 4U)



NVR-xxx-UR03
(Inner RAID 3 Bay, 4U)



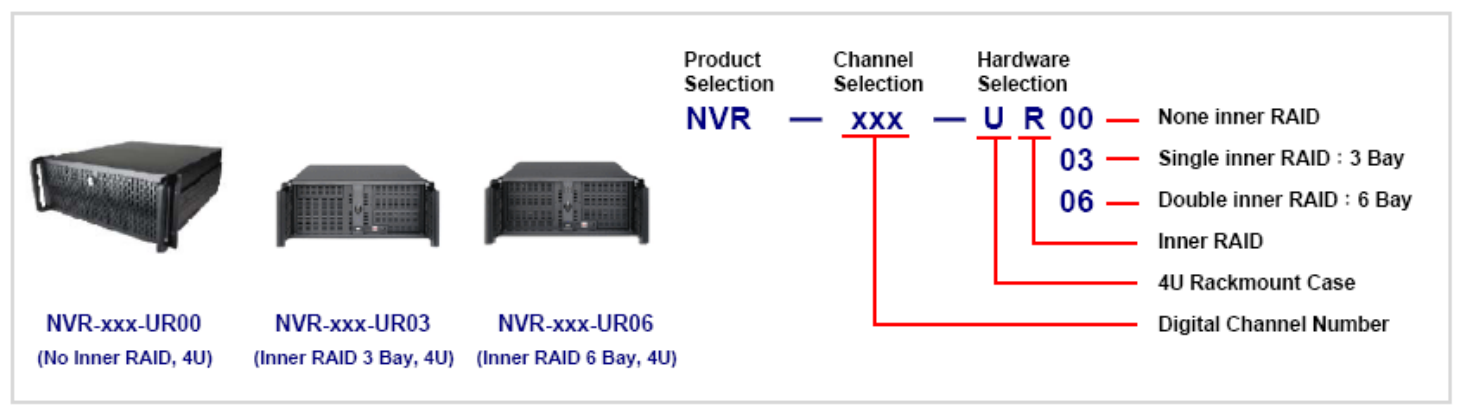
NVR-xxx-UR06
(Inner RAID 6 Bay, 4U)

| | |
|------------------------------|---|
| Chipset | Intel® X38 ICH9R + PXH/V Chipset |
| CPU | <ul style="list-style-type: none"> • Single LGA775 Socket • Supports Intel® Core™2 Extreme QX9000/QX6000 series • Supports Intel® Core™2 Quad Q9000/Q8000/Q6000 series |
| Memory Type | DDR3 1333/1066/800MHz un-buffered, ECC or non-ECC SDRAM, |
| Audio | High Definition 7.1 Channel Audio |
| Networking Controller | Gigabit LAN Port |
| PCI-E Slots | 2(x16) PCI-e 2.0 slot 1(x1) PCI-e slot 2x 32-bit 33MHz PCI (5V) slots |
| USB | 12x USB 2.0 / 1.1 compatible 6 rear + 2 Type A connectors + 2 headers (4 ports) |
| SAS Controller | ACS-76200 |
| RAID | RAID 0 、 1 、 5 support |
| Power Supply | <ul style="list-style-type: none"> • 500W (No Inner RAID) • 700W (Inner RAID 3, 6 Bay) |
| Dimensions | 4U : 178 (H) x 482 (W) x 528 (D) mm |



4U Server NVR Full Model List

Product Coding



| Item | Model Code | Case + Power | Main board | CPU | RAM 2G/ 4G | DOM | Inner RAID | RAID CARD |
|------|--------------|--------------|------------|------|------------|------|-----------------|-----------|
| 1 | NVR-016-UR00 | 4U + 500W | Industrial | Quad | DDR3 2G*4 | 512M | N | N |
| 2 | NVR-016-UR03 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*1 | N |
| 3 | NVR-016-UR06 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*2 | N |
| 4 | NVR-024-UR00 | 4U + 500W | Industrial | Quad | DDR3 2G*4 | 512M | N | N |
| 5 | NVR-024-UR03 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*1 | N |
| 6 | NVR-024-UR06 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*2 | N |
| 7 | NVR-032-UR00 | 4U + 500W | Industrial | Quad | DDR3 2G*4 | 512M | N | N |
| 8 | NVR-032-UR03 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*1 | N |
| 9 | NVR-032-UR06 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*2 | N |
| 10 | NVR-048-UR00 | 4U + 500W | Industrial | Quad | DDR3 2G*4 | 512M | N | N |
| 11 | NVR-048-UR03 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*1 | N |
| 12 | NVR-048-UR06 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*2 | N |
| 13 | NVR-064-UR00 | 4U + 500W | Industrial | Quad | DDR3 2G*4 | 512M | N | N |
| 14 | NVR-064-UR03 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*1 | N |
| 15 | NVR-064-UR06 | 4U + 700W | Industrial | Quad | DDR3 2G*4 | 512M | Inner RAID 3X*2 | N |