



## M3 Standalone NVR

Prebuilt 12/ 16/ 24ch IP Camera Licenses with up to 4 HDDs  
Featuring Embedded Windows 7 and POS Software



24ch Full HD  
Real-time Recording  
(Max. 192Mb)



13ch Full HD  
Real-time Display  
on Dual Monitors



Total 16TB with 4HDDs,  
Supports 4TB Disk Drive,  
Hard Disk Tray Design



On-board  
Hardware  
Watchdog

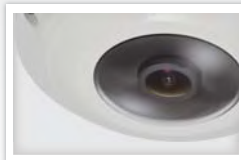


# GVD M3004

## Standalone NVR

GVD M3004, standalone NVR, is a turnkey product with embedded Windows 7 and POS software, that's suitable for mid-sized installations, including government buildings, offices, factories, campuses, hotels, banks, retail chain stores, shopping malls, etc.. It's reliable and flexible to scale up projects with VMS Platform (300~5000ch) or CMS Platform (64~300ch) to suit your needs.

### Key Feature



#### Support Onvif Profile S & Onvif

Supports 90+ brands of IP cameras and 2000+ models.  
GVD offers better and more flexible PTZ control than ONVIF.  
GVD advanced Motion Detection integration surpasses ONVIF.



#### Scale up Projects with VMS/CMS

GVD M3004 NVRs are suitable for VMS platform (300~5000ch) or CMS platform (64~300ch) to scale up the projects to meet your needs.



#### HD Empowerment

GVD unique software has advanced features such as MVP, ROI, Turbo Mode Plus, etc. that offers high performance video recording and display.



#### Smooth Video with Exclusive Video Playback Control

Built-in Exclusive Video Playback Control technology that enables smooth video and limiting of video quality degradation for different situations like uniform Camera Time Stamp, Unstable Network Conditions.



#### IVA Functions and POS Integration

GVD POS editor integrates with all different POS machines via GVD POS Box, that's suitable for retail chain stores. The GVD software also combines with IVA functions such as MVP, e-fences, missing object, foreign object for more analyses.



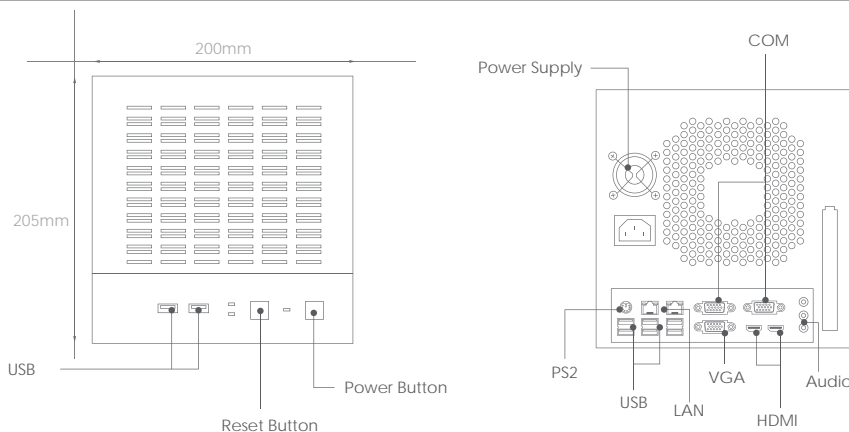
#### Powerful Alarm Management

Alarm notification by Pop-up, E-mail, DI/DO (Modbus Support) when video loss, sensor triggered, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection, etc.

## System Diagram



## Dimensions



## Specification

| Product              |                             | M3004 - IR   | M3004   |                  |
|----------------------|-----------------------------|--|---|------------------|
| System               | Item                        | Standalone NVR   |   |                  |
|                      | CPU                         | Intel® Core™ i3-3220 Processor   |   |                  |
|                      | Memory                      | DDR3-1600 4G   |   |                  |
|                      | Operation System (OS)       | Windows 7 Embedded   |   |                  |
|                      | Network Protocols           | TCP/IP ,UDP, HTTP, HTTPS, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x |   |                  |
|                      | Language                    | English, Spanish, French, Dutch, Italian, Japanese, Chinese, etc.  |   |                  |
|                      | Watchdog                    | Supports Hardware Watchdog, Software Watchdog  |   |                  |
|                      | System Update               | Supports NVR Software Update   |   |                  |
|                      | RAID                        | RAID 0, 1, 5   | na  |                  |
|                      | Video & Recording           | IP Camera License  | 12ch  | 16ch, 24ch, 32ch |
|                      |                             | Display Performance  | D1@1080fps / 1.3MP@540fps / 2MP@325fps (Turbo Mode - Real Time) |                  |
| Recording Throughput |                             | 72Mbps   | Max.192Mb   |                  |
| Recording Resolution |                             | D1, 1.3-20 Megapixel   |   |                  |
| Video Codec          |                             | H.264 High Profile, MPEG4, M-JPEG, MxPEG   |   |                  |
| Audio Codec          |                             | Two-Way Audio, G. 711, G.726, AAC  |   |                  |
| Streaming Type       |                             | Unicasting, Multicasting   |   |                  |
| Onvif Supports       |                             | Onvif 2.2, Profile-S   |   |                  |
| Recording Capacity   |                             | 16 TB (4x HDDs)  |   |                  |
| <b>Software</b>      |                             |  |   |                  |
| Setting              | Configurations              | Configurations of NVR, Camera, Event, Alarm, Device, DI/DO, etc.   |   |                  |
|                      | User Authority              | Export Video Clip, PTZ Control, Live View, Playback, Alarm Search, Configuration, Remote System Control, etc.                            |   |                  |
|                      | Recording Mode              | Full Time Recording, Recording by Schedule, Event, Alarm, Motion Detection   |   |                  |
| E-map                | E-map                       | Mapping Cameras and DI/DO Points, Map Hyperlink  |   |                  |
| PTZ                  | PTZ Control                 | PTZ Control, Preset Point, Patrol, Digital PTZ   |   |                  |
| Live View            | Display Pattern             | 1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 16, 18, 24, 25, 36, 48, 64   |   |                  |
|                      | Viewing Operation           | ROI (Region of Interest), Tour   |   |                  |
| Playback             | Video Search                | Time, Event, Alarm   |   |                  |
|                      | Synchronous Playback        | up to 16ch   |   |                  |
|                      | Video Playback              | Time Slider Control Panel (Forward, Backward, Speed Control, Sync. Playback)   |   |                  |
|                      | Video Export                | Video Export via USB (Supports .avi and .ava Format), Digital Watermark  |   |                  |
| IVA                  | Intelligent Search          | Missing Object, Foreign Object   |   |                  |
|                      | Intelligent Video Analytics | E-fence, Video Motion Detection  |   |                  |
| Event                | Event Log                   | Event logs of System, Cameras, User, etc.  |   |                  |
| Alarm                | Alarm Event / Search        | Video Loss, Sensor Triggered, HDD Crashed, System Crashed, Abnormal Transaction, E-fence, Video Motion Detection                         |   |                  |
|                      | Alarm Notification          | Pop-up, E-mail, DI/DO, Trigger Recording   |   |                  |
|                      | Alarm In / Alarm Out        | DI/DO Control, Modbus (Master, Slave)  |   |                  |
| Remote Client        | Web Client                  | Support Browser IE 9.0   |   |                  |
|                      | APP Client                  | iOS (iPhone, iPad), Android  |   |                  |
|                      | VMS/CMS Client              | VMS(E300), CMS(E150), Thin Client(E90 - Window XP/7/8)   |   |                  |
|                      | Supports Client Numbers     | 5  |   |                  |
| POS                  | POS License                 | 8ch  |   |                  |
|                      | POS Integration             | Integration with all brands via GVD POS Editor   |   |                  |
|                      | Transaction Viewing         | Live Viewing with Transaction data   |   |                  |
|                      | Search / Playback           | Time, Item (Keyword), Price with Transaction data and Video  |   |                  |
|                      | Abnormal Transaction        | Alarm Rule (Item, Value), Alarm Popup, Alarm Search  |   |                  |
| <b>Hardware</b>      |                             |  |   |                  |
| Network              | Lan Port                    | Gigabit Lan (RJ45) x2  |   |                  |
|                      | Ethernet                    | 10/100/1000M Auto Negotiation  |   |                  |
| Display              | Local Display               | VGAX1, HDMIX2 (Support Two Video Outputs Simultaneously)   |   |                  |
|                      | Local Display Resolution    | 1920x1200  |   |                  |
| Storage              | Hard Disk Drive             | SATA   |   |                  |
|                      | Hard Disk Trays (Bays)      | 4 pcs  |   |                  |
|                      | Storage Capacity            | 4 TB   |   |                  |
| Port                 | USB Port                    | USB 2.0 Front x2, Rear x4  |   |                  |
|                      | Communication Port          | RS232 x1 ; RS232/485/422 x1  |   |                  |
| Power                | Power Voltage               | 100-240 Vac, 50-60 Hz  |   |                  |
|                      | Power Consumption           | 150W   |   |                  |
| Environment          | Operation Temperature       | 0°C ~ 40°C (32°F ~ 104°F)  |   |                  |
|                      | Storage Temperature         | -10°C ~ 80°C (14°F ~ 176°F)  |   |                  |
|                      | Operation Humidity          | 0% ~ 90%   |   |                  |
|                      | Storage Humidity            | 5% ~ 90%   |   |                  |
| Appearance           | Dimensions                  | 200(W)x205(H)x320(D)mm   |   |                  |
|                      | Net Weight                  | 5.86 Kg  |   |                  |
|                      | Chassis                     | Chassis: SECC, Front Panel: ABS  |   |                  |
| Expansion            | POS Box                     | A0003-POS (RS-232)   |   |                  |

\*All specifications are subject to change without notice