

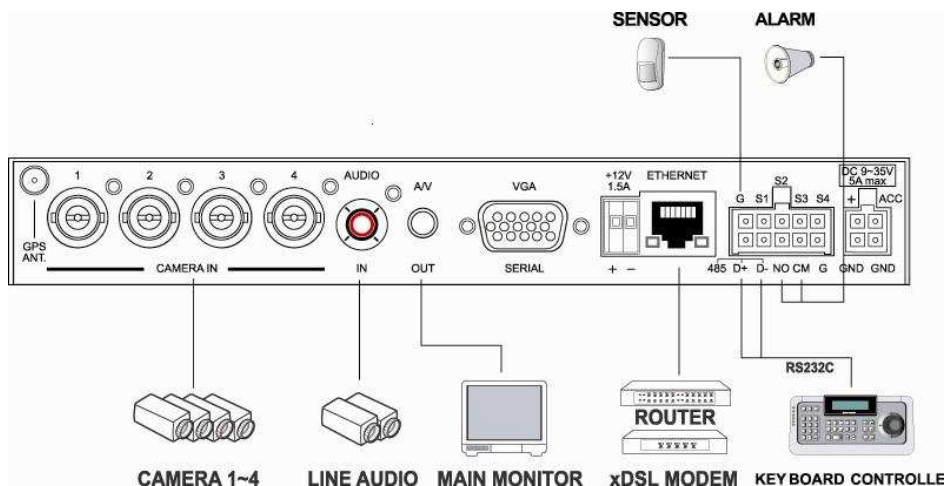


## QPD-2004HM

4Ch H.264 Mobile DVR



- H.264 Mobile DVR for Vehicles : 4Ch
- Quadraplex: Record, Playback, Copy and Networking simultaneously
- Only DVR in the world with “**Dual Indexing File System**” to retrieve fast playback files
- User friendly Menu, Settings and Remote.
- Picture-In-Picture (PIP), Video magnification, Freeze function
- One-Touch instant Multi-screen playback (rev/fwd) of all channels from previous second
- Built-in SD RAM for SD Index
- Built-in File viewer on copy media with Password
- Search: Calender, time, Event, Block, File, Bookmark, text and Log file
- Wide Operating temperature of -20°C~ 60°C
- EMC & class B approval
- Optional GPS & Impact Sensor
- Live & playback overlay on GPS with Driving information
- DVR remains ON and goes to power saving mode when Engine is turned off
- Polarity and Hi-Voltage (upto 35V) protection

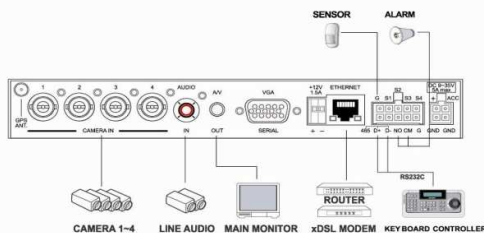


# Specifications

## QPD-2004HM

|   |                  |   |                                |   |  |
|---|------------------|---|--------------------------------|---|--|
| <b>VIDEO</b>                                |                  | 4CH (BNC)   |                                | <b>MULTI-REMOTE SURVEILLANCE</b>          |  |
| Video Input                                 |                  | 1.0Vp-p±10% Composite, 75Ω Balanced                                     |                                | Monitoring Environment                    | Client software / CMS for mobile DVR / SD viewer   |
| Input Level                                 |                  | Not supported   |                                | Transmission Rate                         | 120fps (CIF) max, full motion transmission   |
| Loop Through Output                         |                  | NTSC, PAL, AUTO   |                                | Search                                    | Supporting multi-client(16 clients accessible)   |
| Video Standard                              |                  | 1.0 Vp-p Composite, 75Ω Balanced  |                                | <b>SYSTEM MONITORING &amp; RECOVERY</b>   |  |
| Main Monitor Output                         |                  | Not supported   |                                | System Logging                            | Power Failure Checkable/ Menu Change/ Network connection   |
| Analog Spot Monitor Output                  |                  | Max. 8 characters   |                                | Monitoring                                | Software Watchdog  |
| Camera ID                                   |                  | 1, 4  |                                | Recovery                                  | Auto-Reboot by Watchdog Automatic Database Recovery  |
| Screen Split Control                        |                  | 1~60 Seconds  |                                | <b>CONNECTOR</b>                          |  |
| Dwell Time                                  |                  | 720(H) x 480(V)   |                                | Video Input                               | 4CH BNC  |
| Display                                     | Resolution       | NTSC  | 720(H) x 576(V)                | A(line)/V(composite) Output               | 3.5mm Stereo Mini Jack (Rear)  |
|   |                  | PAL   | 720(H) x 576(V)                | Audio Input(Line)                         | 1CH(RCA)   |
|   | Speed            | NTSC  | 120 frames(Every CH Real Time) | Serial port for Modem(RS-232C) (Optional) | 9 pin D-sub  |
|   |                  | PAL   | 100 frames(Every CH Real Time) | RS-485 for External Control & PTZ         | 2 pins (Box connector) / (Terminal block)  |
|   | Function         |   | Auto sequence, 1, 4 split, PIP | VGA output / RS-232C(Optional)            | 15 pins D-sub/ RS 232C   |
| <b>AUDIO</b>                                |                  | ADPCM   |                                | Sensor Input                              | 4CH (Box connector) / (Terminal block) (Including Ground 1 pin)  |
| Compression                                 |                  | 1CH (RCA)   |                                | Alarm Output                              | 1 Relay output: 2 pins terminal block(NO, Common)  |
| Audio Input (Line)                          |                  | 0.5~1.4Vp-p@20kΩ  |                                | Ethernet                                  | RJ-45, 10/100Mbps  |
| Input Level                                 |                  | 3.5mm Stereo Mini Jack  |                                | USB 2.0                                   | 1 port(Front)  |
| Audio Output (Line)                         |                  |   |                                | Camera Power Output                       | 12V, 1.5A(Voltage Regulated)   |
| <b>RECORDING</b>                            |                  | H.264   |                                | <b>ELECTRICAL</b>                         |  |
| Compression                                 |                  | 720(H) x 480(V) 720(H) x 240(V) 360(H) x 240(V)                         |                                | Power Source                              | DC 9V~35V, Max. 5A   |
| Resolution                                  | NTSC             | 720(H) x 576(V) 720(H) x 288(V) 360(H) x 288(V)                         |                                | Power Consumption                         | Approx. 10 Watts (Including 2 SD memory cards)   |
| Speed                                       | NTSC             | 360 x 240   | Max. 120frames(CIF)            | <b>ENVIRONMENTAL</b>                      |  |
|   |                  | 720 x 240   | Max. 120frames(Half D1)        | Operating Temp.                           | -20°C ~ +60°C / 0°C ~ +60°C  |
|   | PAL              | 720 x 480   | Max. 60frames(D1)              | Storage Temp.                             | -20°C ~ +60°C  |
|   |                  | 360 x 288   | Max. 100frames(CIF)            | Humidity                                  | 30~90%RH (Non-Condensing)  |
|   |                  | 720 x 288   | Max. 100frames(Half D1)        | <b>PHYSICAL</b>                           |  |
|   |                  | 720 x 576   | Max. 50frames(D1)              | Construction                              | Steel Case   |
| Duplex or Triplex                           |                  | Quadruplex  |                                | Shape                                     | Steel Case   |
| Each CH                                     | Frame Setting    | Available   |                                | Material                                  | Steel Case   |
|   | Event, Normal    | Available   |                                | Body Color                                | Black with Tact Switch Button(10 Buttons)  |
|   | Resolution       | Available   |                                | Dimension                                 | 200(W) x 110(D) x 30(H) mm   |
|   | Quality          | 4 level(Low,Normal,Fine,Best)   |                                | Weight                                    | Approx. 1.5kg  |
| Setup per Channel                           |                  | Individual  |                                | <b>BACKUP</b>                             |  |
| Record Limit                                |                  | Automatic data delete for privacy                                       |                                | Digital Backup                            | Not supported  |
| Data Size                                   |                  | 1~3KB(CIF), 3~7KB(D1/2), 6~15KB(D1)                                     |                                | Backup Method                             | Not supported  |
| Recording Mode                              |                  | Normal(Continuous),Event (Motion detection, Sensor,Video loss),Schedule |                                | <b>ALARM</b>                              |  |
| Pre-Alarm                                   |                  | 5 Seconds(considering 30sec, even 2min)                                 |                                | Sensor Input                              | 4CH (Box connector)/(Terminal block) (Including Ground 1 pin)  |
| Watermark                                   |                  | Support   |                                | Alarm Output                              | 1 Relay output: 2 pins terminal block(NO, Common)  |
| Schedule                                    |                  | 24 groups per day by an hour, Holidays are same as Sunday               |                                | Motion Detection                          | Available For Each Camera Multi-Detection Level  |
| Summer Time                                 |                  | Support   |                                | <b>OTHERS</b>                             |  |
| SD  | Internal Storage | 2 SD memory cards in front  |                                | Fan                                       | Supported  |
|   | Optional board   | 4 SD expansion board  |                                | Accessories                               | 1 pair wire to 4 DC out plug cable for camera power, GPS Antenna with MCX Type Plug (Option 1 & 2), CD(manual), IR remote controller |
| GPS board(Option1)                          |                  | GPS   |                                | Camera power control                      | supported  |
| SD Bay Interface(Option2)                   |                  | 4 SD EXP + GPS  |                                | OS  | Embedded Linux   |
| <b>SEARCHING &amp; PLAYBACK</b>             |                  |   |                                | Firmware update                           | Updated by USB or Network  |
| Searching Method                            |                  | Time, Calendar, Event, (Copied) File, Text                              |                                | Menu Type                                 | Graphic + Text   |
| Playback                                    |                  | 1, 2, 4, 16, 32, 64, 128 velocity 1/2, 1/4, 1/16, 1/32, 1/64, 1/128     |                                | Language(13 kinds)                        | English,Korean,Japanese,Polish , Spanish,Russian,Chinese, Taiwanese,French, Turkish,German,Italian,Portoguese                        |
| <b>COPY DEVICE</b>                          |                  |   |                                | Control Device                            | Front key, Remote controller, External controller via RS-485   |
| Internal CD/ DVD±RW                         |                  | Not supported   |                                | PTZ(16 kinds)                             | SPD (Samsung Techwin) VC-C4R (Cannon)  |
| Media Support                               |                  | USB memory stick, External USB HDD                                      |                                |   | SD-290 (Smile CAM) PELCO D-TYPE (Pelco)  |
| USB 2.0                                     |                  | 1 port(Front)   |                                |   | DSC-230S (Dongyang Unitech) DMP23 (DAIWA)  |
| Copied File Compatibility with PC (Windows) |                  | Compatible  |                                |   | PELCO P-TYPE (Pelco) BOSCH   |
|   |                  |   |                                |   | TK-C655/676 (JVC) EZ PROTOCOL (Vitek)  |
|   |                  |   |                                |   | Qpix Series GE   |
|   |                  |   |                                | Number of Event list / Log list           | 50,000 / 20,000 per SD   |

## SYSTEM DIAGRAM



\*Specifications are subject to change without notice