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## Model: JH8-HYBRID

## Specification

| Function                |                     | JH8-Hybrid                                                                                                                                                                                                                                                 |
|-------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                  | Language            | English / Chinese                                                                                                                                                                                                                                          |
|                         | Operation Interface | Graphical User Interface (OSD menu)                                                                                                                                                                                                                        |
|                         | Password Security   | 2 Levels: Administrator & User                                                                                                                                                                                                                             |
| Video                   | Video Input         | Supports 8 channels CIF/HD1/D1/960H camera Video input<br>Supports 4 channels 720P / 2 channels 1080P IP camera Video input<br>Supports 4-CH 720P IPC + 8-CH 960H/D1/CIF Video input (4x25/30 fps) 4-CH 720P IPC + (8x15 fps) 8-CH 960H/D1/CIF Video input |
|                         | Video Output        | 1 each HDMI (max. 1080P), 2 CVBS (Analog); 1 each 3.5mm Jack on Front Panel and one connection on the 24 pin I/O port                                                                                                                                      |
|                         | Video Display       | Single picture, 1~12 pictures                                                                                                                                                                                                                              |
|                         | Signal System       | PAL / NTSC ( PAL@200 frame 960H/sec; NTSC@240 frame 960H/sec )                                                                                                                                                                                             |
|                         | Image Compression   | H.264 Main profile                                                                                                                                                                                                                                         |
|                         |                     | Note:                                                                                                                                                                                                                                                      |
| Audio                   | Audio Input         | 8 Channels                                                                                                                                                                                                                                                 |
|                         | Audio Output        | 2 Channels (Front Panel 3.5mm Jack, 1 in the 24pin connector)                                                                                                                                                                                              |
|                         | Record Format       | Synchronized A/V recording                                                                                                                                                                                                                                 |
| Recording & Storage     | Image Resolution    | CIF / HD1 / D1 / 960H / 720P/1080P options                                                                                                                                                                                                                 |
|                         | Video Coding        | ISO14496-10 Industry Standard                                                                                                                                                                                                                              |
|                         | Video Bit Rate      | CIF: 1536Kbps ~ 128Kbps,                                                                                                                                                                                                                                   |
|                         |                     | HD1/D1: 2048Kbps ~ 400Kbps,                                                                                                                                                                                                                                |
|                         |                     | 960H: 2048Kbps ~ 400Kbps,                                                                                                                                                                                                                                  |
|                         |                     | 720P: 2048Kbps ~ 400Kbps,                                                                                                                                                                                                                                  |
|                         |                     | 1080P:4096Kbps ~ 400Kbps                                                                                                                                                                                                                                   |
| Alarm                   | Storage             | Select from 8 Levels of Video Image Quality ranging from 1(Highest) to 8(Lowest)                                                                                                                                                                           |
|                         | Audio Bit Rate      | 40Kbps                                                                                                                                                                                                                                                     |
|                         | Storage             | Up to 2TB HDD/SSD and 1 SD card for backup ( at 3G/4G/WIFI model option )                                                                                                                                                                                  |
| Communication Ports     | Alarm Input         | 8 Channels, Select Trigger for either less than 1VDC or greater than 5VDC                                                                                                                                                                                  |
|                         | Alarm Output        | 1 Channel, 12V output                                                                                                                                                                                                                                      |
| Wireless Communication* | RS485               | 1 Port for PTZ control or Data Device usage                                                                                                                                                                                                                |
|                         | RS232               | 2 Port for communication or data usage                                                                                                                                                                                                                     |
|                         | RJ45 Network        | 4 Ports of RJ45, For connection to an IP camera with maximum of 1080P                                                                                                                                                                                      |
|                         | USB                 | 2 Ports of USB 2.0, the front is used to export record file. The rear panel is used to mirror                                                                                                                                                              |
| GPS*                    | 3G*                 | 3G (HSUPA / HSDPA / WCDMA / EVDO / TD-SCDMA) optional Internal module                                                                                                                                                                                      |
|                         | 4G*                 | 4G (TDD-LTE / FDD-LTE) optional module to match local cellular carrier                                                                                                                                                                                     |
|                         | Wi-Fi*              | Internal Wi-Fi 802.11b/g/n ( 2.4 / 5.8 Ghz) optional                                                                                                                                                                                                       |
| G-Sensor                | Int'l Standard GPS* | Internal GPS module. Real-time geographic coordinates, speed information                                                                                                                                                                                   |
| Software                | Internal G-Sensor   | Supports 3 Axis Motion Detection with user set ranges, for X, Y and Z coordinates                                                                                                                                                                          |
|                         | PC Playback         | A/V, GPS, Mapview, Speed, G-Sensor, etc. files available for playback on PC. Limited playback is also available on MDVR                                                                                                                                    |
| Software Upgrade        | IVMS                | Wireless (require Wi-Fi or cellular Option) real-time A/V monitoring, GPS, alarms, etc.                                                                                                                                                                    |
| Voltage Input           | Local or Remotely   | Upgrade through the front USB2.0 or remotely via IVMS platform                                                                                                                                                                                             |
| Voltage Output          | +8~+36V             | 8~36VDC Please check operational voltage of vehicle prior to the installation of the MDVR and its                                                                                                                                                          |
| ACC Detection           | 12V                 | 12V (+/-0.2V) , Max 3A                                                                                                                                                                                                                                     |
|                         | ≤4V                 | Power Off                                                                                                                                                                                                                                                  |
| Video Input Resistance  | ≥6V                 | Power On                                                                                                                                                                                                                                                   |
|                         | 75Ω                 | 75Ω                                                                                                                                                                                                                                                        |
| Video Output Voltage    | 2Vp-p               | 2VP-P CVBS output analog signal, screen input requires 75Ω resistance                                                                                                                                                                                      |
| I / O port              | <1V                 | Low voltage trigger                                                                                                                                                                                                                                        |
|                         | >5V                 | High voltage trigger                                                                                                                                                                                                                                       |
| Operation Temperature   | -40℃~80℃            | Install in well ventilated area, protected from moisture, heat, dust and vibration                                                                                                                                                                         |
| Dimensions              | 192x184x61mm        | Including Security Cover 248x184x61mm                                                                                                                                                                                                                      |