# A-MTK
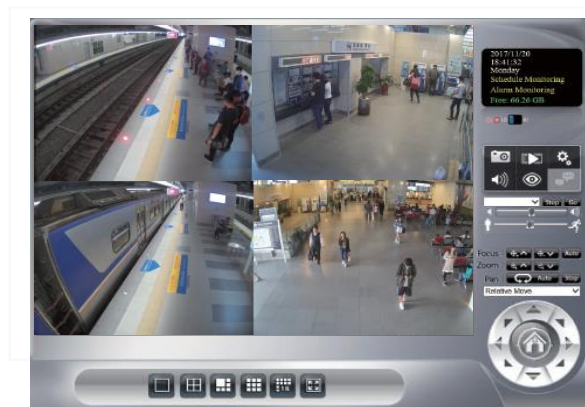
# Vehicle and Railway NVR System

## Key Features

- NVR software supports both H.265 & H.264 IP cameras
- Dual-stream architecture with multitasking design
- Certified for various in-vehicle standards
- Fanless, high heat-dissipation hardware design
- Dual hard drives + independent OS disk
- IP cam channels:   1~max. 12ch

| Software Features | |
|---|---|
| Model | A-MTK Secuguard Duo™  NVR |
| Operation System | Windows 7, Windows 10, Windows 10 iOT |
| Camera Support | A-MTK IP cam fully integration<br>RTSP built-in IP cam : video streaming<br>ONVIF Profile S support IP cam |
| Multi-task | Real-time viewing (via touchscreen/central control sys), recording, and playback simultaneously |
| Video Format | H.265/ H.264 |
| Camera Resolutions | 5MP, 3MP, Full HD, VGA, QVGA resolution (*4K optional*) |

| Supported | |
|---|---|
| IP Cam channels | Up to 12 x 5MP IP cams supported with Intel i7 CPU |
| Digital Zoom (ePTZ) | Mouse scroll zoom |
| Output Resolutions | 1024x768 / 1280x1024 / 1440x900 / 1920x1080 / 3840x2160 |
| Recording Resolution | Dual-stream：max camera resolution and VGA resolution |
| Recording Modes | Scheduled / Continuous / Event-triggered / Pre-event and Post-event recording |
| Event Detection | Motion detection / DI trigger (IP cam /NVR) / Camera tampering / Schedule A-MTK AI IP cam event (ANPR, Car, Person) |
| Alarm Notifications | On-screen pop-up, custom text alert, automatic event recording, snapshot, email, TCP, HTTP, FTP, and log record |
| Bitrate Settings | Supports IP camera CBR, VBR from 512kbps to 10Mbps |
| Storage and Export Formats | 1. A-MTK optimized video format<br>2. Export to A-MTK format or AVT format |
| Playback | Multi-screen / single screen / full screen<br>Search modes: simple, normal, event-based<br>Playback speeds: 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x |
| Backup and Failover | two NVRs act as mutual backup, or distributed failover across multiple units (Contact A-MTK for details) |
| Network Functions | Static IP / DHCP / PPPoE / UPnP |
| Management | 1. Multi-level user permissions<br>2. S.M.A.R.T. HDD diagnostics and alerts |
| Time Synchronization | Manual / NTP sync / DST adjustment |
| Disk Management | Partition management / formatting / overwrite mode |
| SDK Support | Supports OCX and SDK packages |
| Hardware Specifications | |
| CPU | Intel Core i7 11th CPU |
| Memory | DDR4, dual slots |
| Recording Storage | 2 x SATAIII 2.5" HDDs |
| OS Disk | CFAST or PCIe card |
| Network Connector | 4 x M12 A-coded 10/100/1000 |
| Display Output | HDMI / DVI / VGA (configurable) |
| RTC | Removable RTC panel design |

| Watchdog | Dual hardware & software watchdog |
|---|---|
| Temperature Range | Wide temp range (T3)    -40°C to +70°C |
| Power Input | Selectable 24V or 110VDC (adapter optional) |
| Certifications | (vehicle-grade certifications) CE, FCC, EN50155, IEC60571 |