MVS 5210





Main Features

- Multitasking PC + NVR + tracker function
- Vehicle information stamp in video
- 8 x 10/100/1000 Mbps 802.3af PoE ports
- VMS software installed

- 5th generation Intel® Core™ dual core i7-5650U, 2.2GHz
- Dual removable SATA 3.0 SSD/HDD
- 7/24 GNSS tracker function support even PC is off
- Built-in CAN 2.0B. Optional OBDII function (SAE J1939)

Product Overview

MVS 5210 performs 8-CH live view when keeping recording the video simultaneously without lags. It provides multitasking capability such as running video analytics software like people counting continuously while recording real-time videos.

MVS 5210 mobile network video recorder promotes increased safety and security for bus passenger transportation with high video frame rates and 2 removable extensive storage HDD/SSD capacity. It connects up to 8 IP cameras + PoE function providing reliable and high quality video coverage around the bus. Vehicle information stamp such as location, speed or other critical data can be recorded and shown in video.

 $MVS\,5210\,leverages\,wire less \,networks\,to\,simplify\,fleet\,management\,with\,capabilities\,such\,as\,remote, real-time\,video\,monitoring.\,Vehicle\,data\,integration$ and diagnostics are also carried out via CAN Bus and OBDII. This remote capability keeps transit fleets in service around the clock. MIL-STD-810G for shock and vibration is designed to operate in harsh environments.

For added physical security, the pre-alarm function on MVS 5210 features 2 x DI, 2 x DO and GNSS that can operate in power-off state, ensuring vehicle location, alarm and emergency notifications are constantly available at times of intrusion or urgent conditions. Optional back-up battery guards against any unexpected vehicle power failure or unstable vehicle power.

Specifications

NVR System

VMS Software Installed

H.264

Audio Codec

G.726/G.711

Live View Resolutions

QVGA/VGA/SXGA/Full HD/3M/5M

Recording Resolution

QVGA~5M

Live Preview

• Support 1/4/9 division, full-screen, snapshot

• Round the clock/motion record modes/event trigger

Record Device

2 x 2.5" SATA 2.0 removable HDD/SSD trays with lock

Playback

- 1/4/9 division, full-screen/snapshot/display original ratio or fit window
- Search mode: Play/reverse/pause/seek/pre frame/next frame
- Speeds: 1/4, 1/2, 1, 2, 4, 8, 16, 32

Video Stamp

Capability to show and record vehicle information in video *AMTK camera is required

Camera Setting

Auto search, profile selectable, ONVIF support

Disk Management

• Partition management, format partition, S.M.A.R.T status

PC System

• 5th generation Intel® Core™ dual core i7-5650U, 2.2GHz

2-channel 204-pin DDR3L SO-DMIM socket support 1600MHz up to 16GB, default 2GB industrial grade memory

Storage

1 x CFast (externally accessible), 1 x mSATA

x full size Mini-PCIe socket (USB 2.0), 1 x full size Mini-PCIe socket (USB 2.0 + PCIe), 1 x full size Mini-PCIe socket (mSATA)

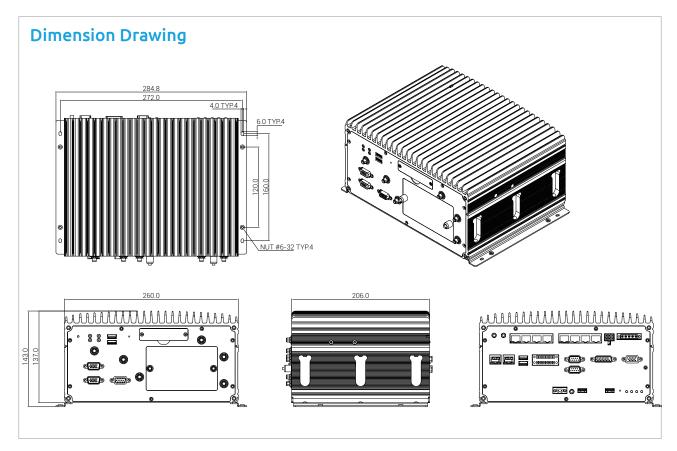
GPS and On Board Sensor

- 1 x default U-blox NEO-M8N GNSS module for GPS/Gloness/QZSS/ Galileo/Beidou
- Optional modules with Dead Reckoning available
- Built-in G-sensor

Power over Ethernet

8-port RJ45 for 10/100/1000 Mbps PoE IEEE 802.3af conformity, total 60W





I/O Interface-Front

PC Function

- 4 x LED indicators for power/storage/WLAN/WWAN
- 1 x CFast socket with cover. 1 x Reset button
- 2 x dual USB type A connectors for 1 x USB 3.0 + 1 x USB 2.0 port
- 1 x DB15 connector
 - MCU DIO (2 x DI, 2 x DO), 1 x analog input, 1 x speed frequency input, 1 x iButton, 1 x RS232 (only for RFID reader w/ 12VDC output), 1 x direction signal for optional Dead Reckoning, module
- 2 x externally accessible SIM card sockets (selectable)
- 6 x antenna holes for WWAN/WLAN/BT/GPS

NVR Function

- 2 x removable 2.5" HDD/SSD trays with lock
- 1 x DB-15 VGA output for live view
- 1 x DB-15 VGA input for PC VGA switch

I/O Interface-Rear

PC Function

- 8 x RJ45 10/100/1000 Mbps PoE ports
- 2 x RJ45 10/100/1000 Intel® Fast Ethernet with LED
- $1 \times 9 \sim 36$ VDC input with ignition and 80W typical power consumption
- 1 x dual USB type A connector for USB 3.0 port + USB 2.0 port
- 2 x phone jacks 3.5mm for 1 x Mic-in and 1 x Line-out
- 1 x DB-15 VGA, resolution up to 2560 x 1600 @60Hz
- 1 x DB26 LVDS interface with 12V and USB2.0
- 2 x DB-9 RS-232/422/485 (w/ optional 3KV isolation protection)
- 1 x 12VDC output (2A) + battery bypass DC output (2A) + SM Bus
- 1 x 16-pin terminal block connector
- 1 x CAN Bus 2.0B (on board)
- 1 x OBDII from optional VIOB-OBD-03 module (SAE J1939)
- 1 x CAN Bus 2.0B from optional VIOB-CAN-03 module
- 8 x GPIO
 - (4 x Digital inputs, w/ optional 3KV isolation protection) Input voltage (internal type): 5VDC TTL (default) Input voltage (source type): 3 ~ 12VDC
- (4 x Digital outputs, w/ optional 3KV isolation protection) Digital output (sink type): SVDC TTL (default), max current: 20mA Digital output (source type): 3 ~ 24VDC, max current: 150mA

NVR Function

- 2 x USB type A connectors, 1 x Reset button
- 1 x switch for VGA input selection (NVR or PC)

- 4 x LED indicators for power/storage/storage alarm/camera
- 1 x phone jack 3.5mm for 1 x Line-out

Power Management

- Selectable boot-up & shut-down voltage for low power protection by software. Setting 8-level power on/ off delay time by software. Support S3/S4 suspend mode
- Optional internal 1100mAh, Li-Polymer rechargeable battery

Operating System

Windows 7/WES7/Windows 8/WES8/Linux kernel 3.X

Dimensions

- 260mm (W) x 206mm (D) x 130mm (H) (10.24" x 8.11" x 5.12")
- 3.3kg

Environment

- Operating temperatures (without internal battery): -30°C~50°C (w/ industrial SSD) with air flow
- Operating temperatures (with internal battery, discharging): -20°C~45°C (w/ industrial SSD) with air flow Storage temperatures: -40°C~80°C
- Relative humidity: 10% to 90% (non-condensing)
- Vibration (random):
 - 1.5g@5~500 Hz (in operation, HDD), 2g@5~500 Hz (in operation, SSD)
- Vibration (SSD/HDD):
 - Operating: MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure
 - Storage: MIL-STD-810G, Method 514.6, Category 24, minimum integrity test
- Shock (SSD/HDD):
 - Operating: MIL-STD-810G, Method 516.6, Procedure I, functional shock=20g
- Non-operating: MIL-STD-810G, Method 516.6, Procedure V, crash hazard shock test=75g

Certifications

CE approval, FCC Class A, E13 Mark

Orderin g Information

MVS 5210-BK (P/N: 10VS0521000X0)

5th generation Intel® Core™ dual core i7-5650U, 2.2GHz, 2GB DDR3L industrial grade SO-DIMM, 8 x 10/100/1000 PoE, 2 x 10/100/1000 Ethernet, VGA/LVDS output, 2 x RS-232/422/485, 3 x USB, 12VDC output, 1 x CAN, VMS software installed

Last update: 02/02/2016