



Airship Virtual Matrix Driver

In a digital CCTV system the analog video from the camera is converted to digital data for transmission over the TCP/IP network. This takes place as an analog CCTV camera connected to an encoder unit, or by using a self-contained IP camera. The result is the same, encoded digital video traveling along the TCP/IP network.

Airship Virtual Matrix runs on a TCP/IP data network LAN, WAN or MAN (Local, Wide, or Metropolitan Area Network) that carries digitally encoded video.

Switching of camera feeds to monitors is achieved by the Airship Virtual Matrix Driver (VMD) software. The VMD software manages the control, administration and viewing of the live camera feeds and recorded video over the IP network. The VMD software allows an operator, with the appropriate permissions, to view and analyze live and recorded video from any camera. Operator Workstations running the VMD software can be located anywhere on the network allowing for a truly distributed video system. The network routes the video data directly to the appropriate VMD receiver and onto the selected monitor.

Expanding the System

To expand an analog matrix system requires additional copper or fiber cabling that has to be wired from each point to a single location, and additional hardware or even a new matrix if the original unit is full.

With an Airship VMD, you just add viewing of the desired cameras, monitors, recorders or control positions to any point on the network. It's scalable to an almost infinite degree.

Solutions

Ability to access and display live and recorded video remotely

Integration with other systems

Flexible delivery of both live and archived video

Ability to access and control multiple video displays from a single station

Distribution of video and images to a digital video wall for Command and Control systems

The Virtual Matrix brings flexibility to the delivery of live and recorded video, providing command centers high availability access to network video for 24x7 monitoring applications.

Operators can choose from any available camera to be displayed on any system monitor within many custom video displays. The Virtual Matrix is easily integrated with other systems to automatically display video in response to user-defined event triggers. These triggers can include a myriad of additional external events limited only by the ability of the system to recognize the event.



Virtual Matrix Driver

VMD is designed to meet the rigorous performance needs of Casinos and other Command and Control environments. VMD features the industry's highest-quality hardware components configured especially for Server-room stability. Each VMD has 4 VGA/DVI outputs, each able to display 4 high resolution and high frame rate Analog or IP videos simultaneously. Your Surveillance Operations Center can rapidly expand your heads-up Video Wall without adding channels to your legacy analog matrix switch.

MODEL	VIDEO OUTPUT
VMD-1600	16 Cameras output on 4 high resolution VGA Monitors

Customized configurations are also available...

TECHNICAL SPECIFICATIONS

GENERAL

All Components are RoHS Compliant

Power Consumption	220 watts Nominal
Input Voltage	115 VAC
Heat Output	755 btu/hr Nominal

Operating System	Windows XP Professional
Operating Temp.	0° to 56° C (32° to 122° F)
Non-operating Temp.	-40° to 70° C (-40° to 158° F)
Op. Relative Humidity	8% to 90% non-condensing
Non-op. Rel. Humidity	5 to 95% non-condensing
Dimensions H x W x D	4U, 7" x 19" x 20"
Weight at Max Capacity	60 Lb / 27.3 Kg
Chassis	1.2mm sheet metal with ABS plastic parts

WORKSTATION SPECIFICS

VGA Outputs	4
Memory	2 GB
CD-ROM	CD & DVD+-R/W dual layer
OS Hard Drive	Seagate 80GB SATAII (Mirrored RAID1 optional)
Storage Drives, Option	Seagate 750GB SATAII
Power Supply, Option	Redundant PS
RS-422/485 Terminals	1
Remote Administration	Monitor and Configure via TCP/IP and Airship Client

VIDEO RESOLUTIONS

Resolution	NTSC, PAL
4CIF	704x480, 704x576
DCIF	528x320, 528x384
2CIF	704x240, 704x288
CIF	352x240, 352x288
QCIF	176x120, 176x144

Note: Maximum VGA Resolution Is Dependent On The Display Monitor Selected. For Maximum Compatibility, use a Monitor That is Capable of at Least 1600 x1200

CONNECTIONS

Camera Inputs	Ethernet from Airship DVR
Audio Inputs	Ethernet from Airship DVR
Video Monitor	2x DB15, 2x DVI
Gigabit Ethernet	RJ-45 (dual ethernet optional)
Keyboard & Mouse	USB or PS/2
Firewire Ports	1 rear and 1 front
USB 2.0 Ports	6 rear and 2 front (some ports disabled in some configurations)
Audio Output	1/8" stereo jack
Parallel Ports	1x ECP / EEP

MAXIMUM VIDEO FRAME RATES

16 channels at 4CIF @ 30FPS - Total 480 fps at 4CIF

QCIF, CIF, 2CIF and DCIF playback are also available. These values are maximums in a well tuned video capture environment