



SKYQUEST AVIATION

SPECIALIST EQUIPMENT FOR AIRCRAFT

OTHER PRODUCTS

AIRCRAFT VIDEO/VGA DISPLAYS

- » 4" Display
- » 6.5" Display
- » 8.4" Display
- » 9" CRT Display
- » 10.4" Display
- » 12.1" Display
- » 15" Display
- » 18" Display
- » 20.1" Display

AIRCRAFT VIDEO RECORDERS

- » Mini DV Recorder
- » 4 hour DV Recorder
- » 3 Hour DV CAM Recorder
- » SHVS Recorder
- » Hard Disk Digital Recorder

MOVING MAPS

- » EuroNav IV Generation (2nd RN6) System
- » Ground Base Tracking & Communication System

DIFFERENTIAL GPS

- » Differential GPS (DGPS) Standard & High Performance System

VIDEO / RADAR CONVERTERS

- » RDR 1500 Radar Converter

AIRCRAFT

INSTALLATION / BRACKETS

- » NVG Cockpit Equipment Modifications
- » Camera Brackets & Equipment Consoles

MICROWAVE LINKS / DATALINKS

- » Long Range Automated Steerable Tracking Datalink System
- » Low Cost Short Range Omni-Direction System

CARGO HOOK CAMERA

PRODUCT DATA SHEET

VMS Video Management System



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VMS: VIDEO MANAGEMENT SYSTEM MANAGING MULTIPLE VIDEO SOURCES IN AIRCRAFT

ABOUT SKYQUEST AVIATION

Skyquest Aviation supply a range of airborne role equipment specifically designed to enhance the capability of surveillance & utility aircraft. Products include ruggedised video recorders in digital tape, hard disk, flash disk and analogue tape formats and a wide range of multi function LCD video displays, differential GPS decoders (DGPS), radar converters, cargo hook cameras & microwave link systems.

This datasheet describes the VMS: a system designed for users of modern, multi-sensor camera systems typically used on airborne surveillance aircraft. By using the VMS users can route multiple videos, VGA, RGB and STANAG signals into the VMS unit and route the output, retained at the highest resolution being fed to the VMS, to as many displays, video recorders and microwave links as required using one standard signal cable. The signal is routed to the device at the highest resolution it is capable of accepting.

Once all the video inputs are routed through the VMS:

* Any display can call up any input signal at any time. This includes multiple video signals and moving map image on the screen simultaneously. At the press of a button, or via the display touch screen feature, any signal can be instantly switched to full screen. All standard display features such as freeze frame, digital zoom and image enhancement are retained.

* Each display can control and see the status of up to 2 video recorders allowing instant playback on any display.

* Only 1 signal cable is routed from the VMS to each device (displays, VCR, microwave downlink etc..) making installation much easier. Future inputs can be added to the VMS without the need for further cables to the devices giving full flexibility even after installation.

* The native resolution of the image is retained throughout the system and sent at the highest quality to each device automatically. For example a display which can handle an HD input will get the image in HD format whereas the same signal may be routed to the video recorder in S Video or to the m/w link in composite.



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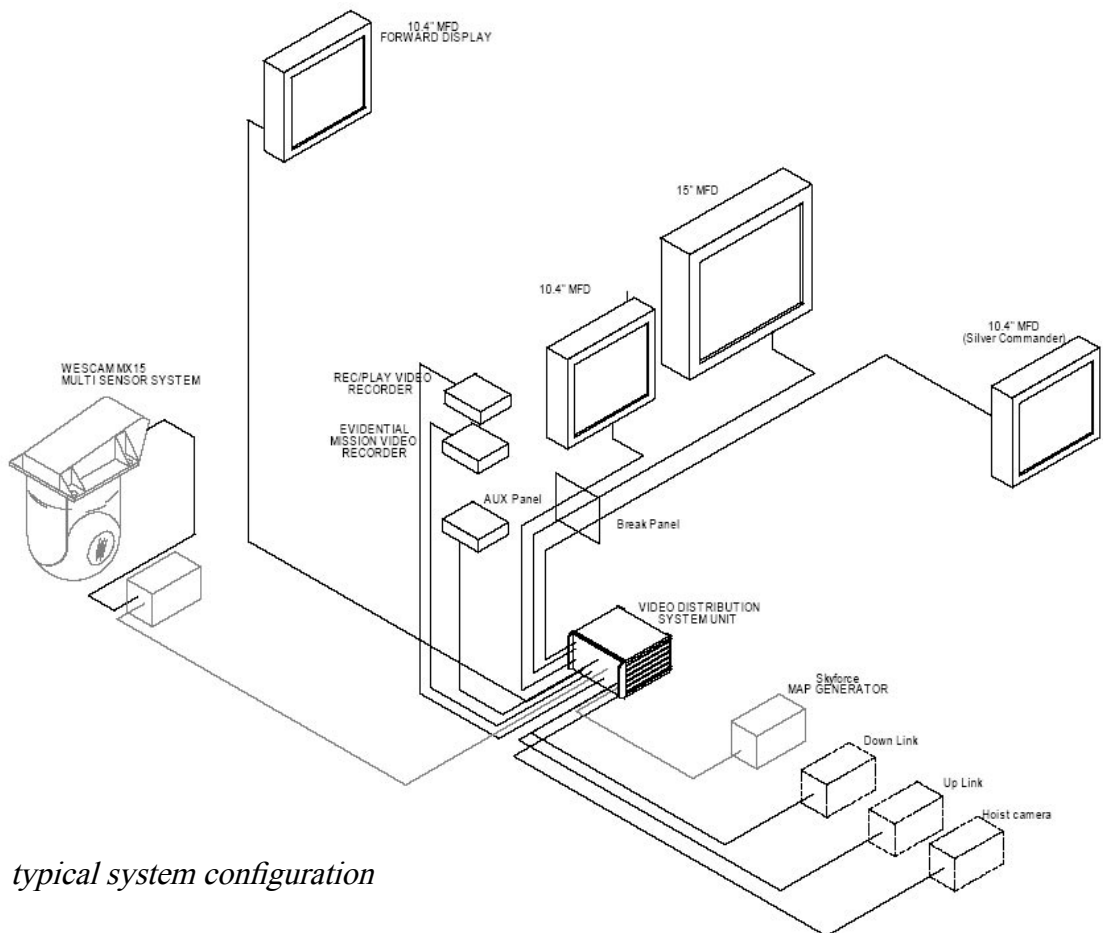
REMOTE CONTROL MODULE RCMP-1080 FULL FUNCTION CONTROL FOR LOCAL OR REMOTE USE

The VMS can be configured at the outset to match user requirements. For example perhaps only the master monitor is enabled to control the master video recorder whereas any monitor is enabled to access the secondary recorder and playback recorded footage during flight. Settings can be changed and re-configured without the need for any cable or wiring changes in the aircraft.

Outputs from the VMS can be sent to any associated equipment such as the microwave link. Selected outputs can be frozen in the VMS set up configuration so that (for example) the FLIR image is always routed and recorded on a particular video recorder OR you can choose to have whatever image is being viewed on display number 1 to be routed to the video and microwave link.

VMS can be integrated with any Skyquest display or recorder. Shown below are examples of our 10.4" and 15" mission displays. All our displays use soft keys to enable control of other devices such as moving maps from the display. Soft keys can also be used to control devices such as microwave links.

VMS offers users total video flexibility on board the aircraft.



typical system configuration



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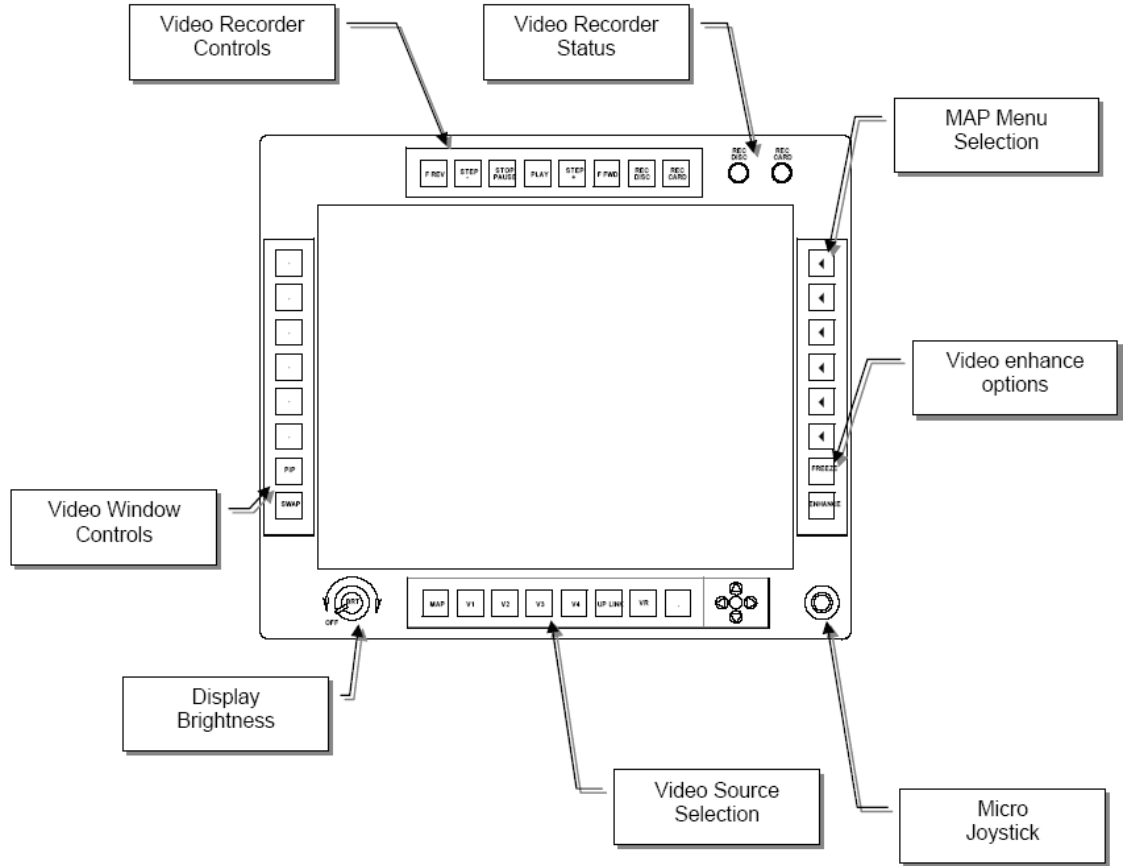
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CARGO HOOK CAMERA

Typical Operator controls.

Soft keys around the display allows the operator maximum flexibility:



Typical inputs:

- * FLIR, daylight, low light, spotter cameras in all video formats
- * Video recorder playback to enable playback of recorded footage
- * ANPR (number plate recognition) computer - fed to all or selected displays with touch-screen operation for use of ANPR functionality.
- * Microwave uplink
- * Cargo hook camera
- * Moving map/s