



## MULTICAST VIDEO SERVER (MVS)

### Graphics Resolution - JPEG2000 Compression

**Records, stores, & streams**

**6 to 24 channels of high  
resolution imagery**

**JPEG2000 compression**

**Random access**

**Time code synchronization**

**Variable speed playback**

The Multicast Video Server (MVS) is a fully integrated, custom configurable system for recording, storing, and distributing multiple channels of high resolution, real-time imagery using the JPEG2000 compression standard. It is part of RGB Spectrum's extensive line of JPEG2000 recording and streaming solutions supporting resolutions up to 1920x1200.

The Multicast Video Server offers the ability to record and store multiple channels while simultaneously streaming the same imagery out to remote locations. It is used with RGB Spectrum's DGy codecs for encoding at origination and decoding at destination points to provide a complete solution.

The Multicast Video Server provides a centralized mechanism for handling incoming streams to be recorded and stored while simultaneously streaming out the same or pre-recorded imagery for remote viewing, supporting 6 to 24 simultaneous streams in any combination of incoming and outgoing streams.

In a simulator application, for example, the instructor can view critical data as seen by the pilot on a real time basis while the same information is being recorded on the MVS. Observers in remote locations can view the same data, real-time or afterwards. The MVS offers a complete solution for even the most complex simulator. For example, while a simulation is being recorded and streamed to an Instructor's Operating Station, previously recorded simulations can be recalled and streamed out to a debriefing room.

Advanced features include random access, time code synchronization, and variable speed playback. The Multicast Video Server's combination of superb image quality, rich feature set, and outstanding performance make it the ideal solution for demanding, mission critical applications.

RGB Spectrum's recording and streaming technology has become the defacto standard in mission critical applications such as simulation, command-and-control, emergency operations centers, missile testing, security, and telemetry. Noteworthy installations include the F-35 Lightning III Joint Strike Fighter simulator program, the U.S. Army Future Combat Systems program, the U.S. Army Space and Strategic Defense Command, the U.S. Army Operational Test Command, and deployments on the U.S. Navy destroyer fleet, the Canadian Navy frigate fleet, and the U.S. Missile Defense Agency.



## Specifications

### High Resolution Graphics Systems Input & Output

|                               |                                  |
|-------------------------------|----------------------------------|
| Number of supported channels: | 6 to 24, configurable            |
| Supported resolutions:        | Up to 1920x1200 pixel resolution |
| Signal formats:               | Interlaced or non-interlaced     |
| Signal transmission:          | 10/100/1000 Base-T Ethernet      |

### Server Hardware Specifications

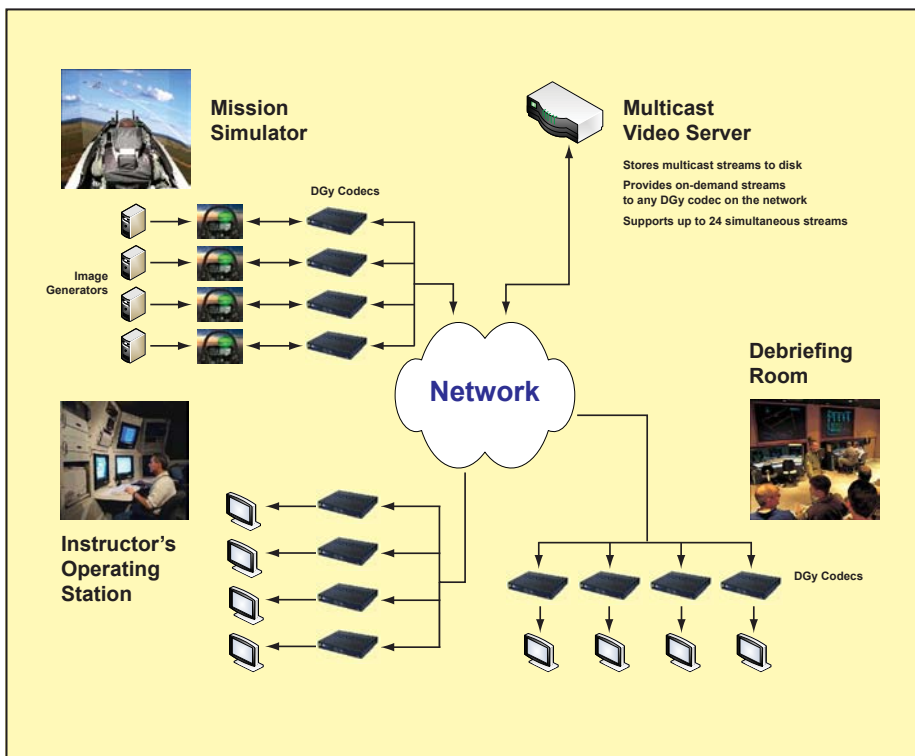
|                        |  |
|------------------------|--|
| CPU:                   | Quad Core Xeon Processors X5355 4 MB Cache, 2.66 GHz, 1333 MHz FSB       |
| Memory:                | 8GB memory   |
| Data Storage:          | Custom configurable with single and multiple drives, fixed and removable |
| Network Communication: | 10/100/1000 Ethernet   |
| Operating System:      | SUSE Linux Enterprise Server 10  |

### Control & External Time Code Synchronization

|                             |  |
|-----------------------------|--|
| Network Connection:         | 10/100/1000 Base-T Ethernet, RJ45 connector                      |
| Command line:               | Internal telnet server   |
| Network Time Server Format: | Network Time Protocol (NTP)<br>User-selectable polling intervals |

### Physical & Environmental

|                              |   |
|------------------------------|---|
| Size:                        | 2U rackmount chassis<br>29.31"/74.4cm (d) x 17.5"/44.43 cm (w) x 3.5"/8.64 cm (h) |
| Weight:                      | Rack weight 50.71 lbs (23 kg), maximum configuration                              |
| Operating Temperature:       | 10° C to 35° C (50° F to 95° F)   |
| Storage Temperature:         | -40° C to 65° C (-40° F to 149° F)  |
| Operating Relative Humidity: | 20% to 80% non-condensing   |
| Operating Vibration:         | 0.26G at 5 Hz to 350 Hz for 2 minutes   |
| Operating Shock:             | 1 shock pulse of 41 G for up to 2 ms  |
| Operating Altitude:          | -16 to 3,048 m (-50 ft to 10,000 ft)  |



**RGB Spectrum's Multicast Video Server (MVS) simultaneously records, stores, and multicast streams from 6 to 24 channels, offering the powerful capability to record and store multiple channels while viewing the same imagery at multiple locations.**