



Description

RAPID-V is a powerful, flexible turnkey computer system that records and plays back up to 1.25 GB/s of data in real time. It works with all current EDT digital video boards.

Depending on board selection, the system can support data in Camera Link, AIA, and time code formats, as well as multiple cameras in base, medium, or full mode.

The system consists of a 3U EDT computer with 16 qualified and tested disk drives to provide 16 terabytes (TB) of storage for greatly extended recording times. It comes with EDT's RAPID-V software, which includes built-in GUI, drivers, application code, and library and software for the record/playback server.

The RAPID-V supports remote operation, and it uses commercial off-the-shelf (COTS) components to allow field upgrades as technology evolves.

Optional accessories include a 1U rack-mount console (keyboard/monitor unit) and RAPID Packs of sixteen additional disk drives each.

Shown with optional rack-mount console (keyboard/monitor unit)

Features

- Computer system for recording and playback of image data in real time
- Works with EDT boards and one or more base- through full-mode cameras
- Data format: Camera Link, AIA, and time code
- Data rates: Up to 1.25 GB/s, depending on boards selected and other variables
- Storage: 16 TB total (raw data) on sixteen removable front-panel disk drives, with no compression loss and no time inconsistencies
- Memory: 4 GB or optional 8, 16, or 32 GB on computer
- Processors: Intel Xeon (one or optional two)
- RAPID-V software with built-in GUI, drivers, and command-line utilities
- Optional accessories:
 - 1U rack-mount console (keyboard/monitor unit)
 - RAPID Packs of sixteen additional disk drives each

Applications

- Item scanning and sorting
- Motion analysis
- High-definition security
- High-speed event capture

Specifications

Product Type	RAPID-V is a computer system that records and plays back up to 1.25 GB/s of data; it works with virtually any EDT digital video board.	
Processors	Intel Xeon	One or optional two
Memory	On computer	4 GB or optional 8, 16, or 32 GB
Storage	Sixteen disk drives for total storage of 16 TB	
Display Hardware	Either onboard VGA, or optional high-performance video	
Data Rates	Up to 1.25 GB/s throughput – dependent on such factors as boards selected, data format used, and system variables.	
Data Format (I/O)	Camera Link, AIA, time code	
Recording Times	Recording times may vary depending on data format and other variables.	
Connectors and Cabling	Dependent on selected EDT board; consult EDT for purchase options.	
Other Computer Ports	Front	Three: One serial, two USB
	Back	Five: Two 1 GbE, one video (VGA), one keyboard, one mouse
Accessories	1U rack-mount console (keyboard/monitor unit) RAPID Packs of sixteen additional disk drives each	
Physical	Weight	77 lbs. (approximate weight without console)
	Dimensions (4U with console; 3U without)	7" H x 17.25" W (inside rails) x 26.5" D (27.5" with front panel and handles) or 5.25" H without console
Environmental	Temperature	Operating: 0° to 40° C Non-operating: -20° to 60° C
	Humidity	Operating: 20% to 80%, non-condensing at 40° C Non-operating: 95%, non-condensing at 40° C
System and Software	System comes preloaded with software. For versions, see our website.	

Support

EDT offers engineer-to-engineer customer support, from phone consultation to custom design of hardware, firmware, and software. Contact us for options and details.

Contact

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Ordering Options

- EDT digital video board: Any
 - Processor: 1 / 2
 - Memory (on computer): **4 / 8 / 16 / 32 GB**
 - **Onboard VGA** / high-performance video
 - Rack-mount console (keyboard/monitor unit)
 - RAPID Packs (16 additional disk drives each)
- Bold** is default. For more options, see EDT board detail. **Ask about custom options.**