



infinity
SERIES

DIGITAL MEDIA CAMCORDER
DIGITAL MEDIA RECORDER
GRASS VALLEY REV PRO DRIVES
& REMOVABLE MEDIA



INTRODUCING THE INFINITY SERIES

Grass Valley has taken a monumental leap in redefining our role as a technology provider and our responsibility to our customers.

For many years, limitations such as dictated formats, proprietary technologies, and closed solutions have caused frustration and workflow inefficiencies.

The time has come to break down old barriers and open up the bottlenecks.

Power of Choice

- Choice of video formats
- Choice of compression codecs
- Choice of recording media
- Choice of connectivity
- Choice of workflows

The Grass Valley™ Infinity™ Series is a revolutionary IT-immersed ENG/EFP product line that creates a truly open solution—one that avoids proprietary approaches and uses advanced technologies in new ways to give you the power of choice. Choice of video formats. Choice in compression codecs. Choice in recording media. Choice in connectivity.

The underlying philosophy of the Infinity Series line is based on a very simple principle: leverage technology from the IT industry to create new ways of doing things without sacrificing quality. For the past several years, IT technologies have brought a wealth of benefits to our industry. But they have more to offer. With a customer base in the hundreds of millions, their products enjoy better price/performance, are more readily available, and are often more highly adaptive than ours.

The Infinity Series line represents a whole new way of thinking for the video industry by taking advantage of IT benefits in many ways. First, Infinity Series products use non-proprietary, nonlinear recording media, which is readily available today. Second, they completely embrace IT connectivity for greater workflow efficiencies. Third, they offer a choice of compression codecs including next-generation technology. Fourth, they provide true contribution-quality high-definition (HD) ENG and EFP acquisition. And fifth, they do all this at substantially lower costs.

TRUE HIGH DEFINITION FOR EVERYONE

Infinity Digital Media Camcorder

The Infinity Digital Media Camcorder provides a choice of standard-definition and high-definition video formats and standards that are selectable within the camera. This makes it ideal for multi-format acquisition and for straightforward migration from SD to HD within your facility. The camcorder provides 14-bit digital imaging for crystal-clear quality with advanced video processing for image control and in-camera digital effects filters.

The Infinity Digital Media Camcorder is the first camcorder to use both removable storage disks and professional solid-state memory as recording and playback media. Traditional video I/O (SDI, HD-SDI, and CVBS) as well as interfaces provide the ultimate in connectivity. The camcorder can connect to external storage devices or PCs via USB or FireWire. Or it can connect to a network via Gigabit Ethernet. LAN connectivity greatly improves the camera's functionality by providing remote video control, metadata embedding, and file transfers over IP connections.

Infinity Digital Media Camcorders provide a choice of compression schemes with the option of selecting what is best for your workflow today and in the future. The compression is assignable via the camera's user interface. Operators can control most aspects of the camera's operation through traditional controls and a side panel TFT touch-screen display. A built-in PDA-type user interface allows for video monitoring, clip management, audio metering, detailed camera configuration, and metadata editing. Metadata such as names, dates, locations, and even camera settings can be created or edited before, during, or after recording.

The Infinity Digital Media Camcorder is planned to ship in two versions: an ENG version designed for general broadcasting applications and a more affordable Pro version designed for the rigorous needs of video professionals.

NEW RULES.
NO LIMITS.





Infinity Digital Media Recorder

The Infinity Digital Media Recorder works like a tape machine but accepts removable IT-based media instead. It is a truly functional, low-cost VTR replacement that can be used anywhere a traditional VTR is used: as a field recorder, preview station, playout machine, or ingesting into editing environments. It eliminates all the disadvantages of tape while offering all the benefits of true nonlinear, instantaneous access. It even provides simultaneous read and write from the media. IT connectivity makes it a plug-and-play addition to your existing network.

Operators of the Infinity Digital Media Recorder use traditional VTR controls such as play, search, and record buttons or a jog/shuttle knob to quickly search for clips. A front-panel LCD offers greater control over the deck, including video monitoring, clip management, audio metering, output and compression configuration, metadata editing, and more.



REV Technology

lomega® REV™ is the perfect match for IT-based acquisition. Based on standard laptop hard drive components it is engineered for much greater reliability by placing only the magnetic media and motor within the removable cartridge. This unique design increases durability while keeping media costs down. Data rates up to 110 Mb/s allow for real-time record/play capability directly from the media. REV media is perfect for true HD acquisition and is well suited for high-speed data transfers over networks. A single 35 GB disk, stores more than 2 hours of SD video, or about 45 minutes of true contribution-quality HD.



The REV drive and removable media are robust and extremely durable. The disk can survive repeated 48-inch (1.2 meter) drops, its long-term archival rating is specified to over 30 years, and it can perform more than one million record/erase cycles without failure. REV media is widely available, is low-cost, and makes an ideal media choice for everyday video recording. But when it comes to the more demanding needs of ENG and EFP field use, we also offer REV PRO.

REV PRO

REV PRO™ technology is based on the same media and drives as standard REV products, but is designed to handle the rigorous needs of day-to-day field use. It offers greater temperature ranges, can be used at higher altitudes, offers increased number of cartridge insertions, and improves vibration handling. Its enhanced caching delivers greater multi-stream performance. REV PRO technology gives professionals the reliable performance they expect.

REV PRO media also comes with added features to make your job easier in the field and in the studio. Each REV PRO media cartridge has built-in applications such as a browser, logging tool, and a software-based VTR emulation program, giving you machine control over the disk. Both standard REV and REV PRO media are interchangeable within the Infinity Series products.

DV and MPEG Compression

For standard definition applications, Infinity Series supports DV-based compression at 25 Mb/s, either at 4:1:1 (DVCAM) or 4:2:0 (DVCPRO) sampling, making it ideal for immediate use in your workflow today. MPEG-2 is also supported via an optional plug-in module, offering both SD (4:2:0 and 4:2:2) and HD (4:2:0) compression capabilities with configurable data rates assignable by the user. But for additional benefits we are also embracing the next generation of compression technology.

JPEG 2000

JPEG 2000 defines a new standard for state-of-the-art compression techniques. It offers higher quality with better efficiency, is highly scalable, offers true random access to every frame, and synchronizes better with digital audio and metadata. One immediate advantage of JPEG 2000 is the lack of blocking artifacts when using high compression. Another is that a single high-resolution master image file can be used to simultaneously create lower-resolution files during the decoding process. This scalable feature gives users the maximum amount of flexibility as it encodes once and decodes many ways.

JPEG 2000 compression is also frame accurate—making it ideal for post-production editing or compositing work. It syncs with audio and metadata better than other schemes. It also provides 4:2:2, 10 bit image quality, which combined with its other features make it ideal for HD. This is one reason why acceptance is growing for this format. Recently, the Digital Cinema Initiatives Committee selected JPEG 2000 as the standard for digital motion picture content and delivery. It is a feature-rich, royalty-free technology that inexpensively solves many of today's compression dilemmas and stands poised to become a leader in compression standards for years to come.

Professional Grade CompactFlash Media

But REV PRO is not the only recording media we offer. We realize that certain workflows require another option. Therefore we incorporate into the Infinity Series products professional grade CompactFlash solid-state memory.

Pro CompactFlash media delivers the required level of performance needed for demanding video applications. It is superior to other proprietary solid-state solutions and far less expensive. Pro CompactFlash cards now hold up to 8 GB with sufficient throughput for both SD and HD recording. And trends indicate that CompactFlash media will continue to increase in storage capacity while decreasing in cost—making it an excellent open-solution for solid-state recording.

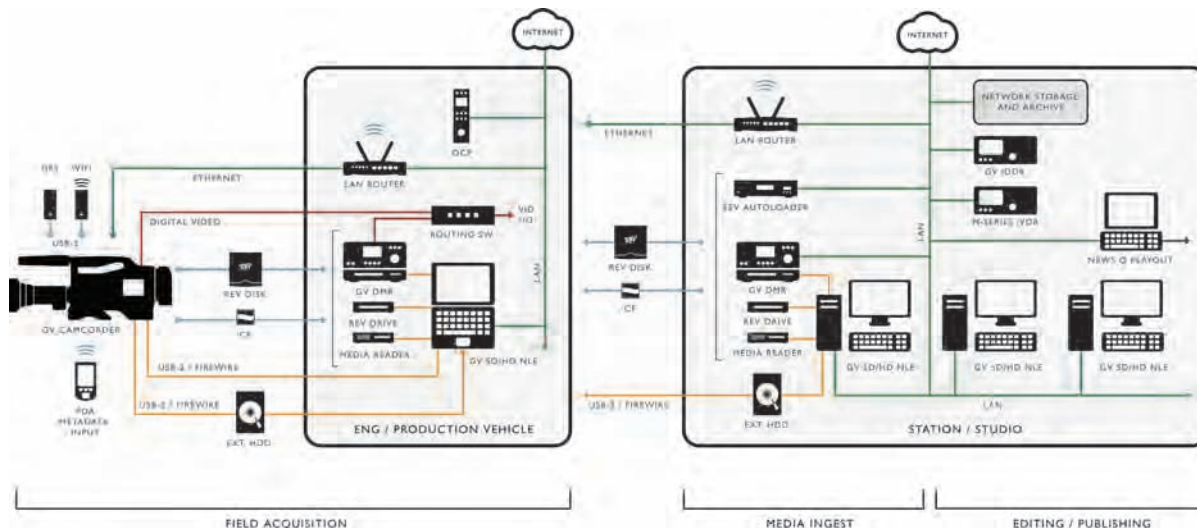
Both REV PRO and CompactFlash media have decisively greater advantages than the proprietary media choices currently available for use in our industry. Both can dramatically enhance your workflow and both are supported by the Infinity Series. The Infinity Series offers a choice in compression as well.



A TRULY OPEN, AFFORDABLE SOLUTION

The New Workflow—Yours

Using the best IT-based recording media, IT connectivity, and next-generation compression, the Infinity Series product line is a revolutionary approach to ENG and EFP workflows. Its purpose is to provide you optimal flexibility and efficiency. The new ENG/EFP workflow uses many paths to accomplish the same task. The choice is yours to decide the way you want to work.



About Grass Valley

If you watch TV or go to the movies, you've seen Grass Valley products at work. That's because we offer the most comprehensive, multi-format solutions for acquisition, production, storage, and playback—and a strong foundation for centralized, proactive status and activity monitoring. With Emmy® award-winning products and world-class technical and service expertise, we're the experts in professional video and film technologies—especially as broadcast, television, and film production go digital. And we've got the Emmy award-winning technologies and the top-flight customers to prove it.

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GV-2048

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