



Infinity Digital Media Recorder

Next Generation IT-Immersed VTR Replacement

infinity
SERIES

Key Points:

- HD/SD multi-format support including 1080i50/60, 720p50/60, 625i50 and 525i60
- Flexible encoding/decoding options, supporting DV25, MPEG-2* and JPEG 2000
- Choice of removable recording/playback media including integrated Iomega REV and CompactFlash media
- Video/audio/metadata files written in an open, MXF-based wrapper
- Includes host of traditional audio/video I/O to support many applications
- Supports multiple IT-based interfaces: USB 2.0, FireWire (IEEE 1394) and Gigabit Ethernet

The Grass Valley Infinity Digital Media Recorder is a revolutionary step in player/recorders using IT-based recording media and connectivity technology.

The Grass Valley™ Infinity™ Digital Media Recorder works like a tape machine but uses removable disk-based and solid-state 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 for ingest into editing environments. It eliminates all the disadvantages of tape while offering all the benefits of true nonlinear, instantaneous access. And the recorder's IT connectivity makes it a plug-and-play addition to your existing network.

This recorder/player is part of the new Infinity Series product line—designed from the ground up to bring all the benefits of advanced technology to the broadcast and production industries without compromising quality. They offer a truly open solution—one that avoids proprietary approaches and uses available technology in new ways to give you the power of choice.

IT-based Recording Media

The Infinity Digital Media Recorder uses off-the-shelf Iomega® REV™ or REV PRO™ removable disks and professional-grade CompactFlash® solid-state memory as recording and playback media. The extremely durable REV removable disks provide the portability and cost-effectiveness of videotape with the availability, speed, flexibility, and ease of use of true nonlinear media such as hard disks.



The compact REV disks store 35 GB, sufficient to record more than two hours of SD or 45 minutes of HD video. Professional grade CompactFlash media memory is a readily-available solid-state technology that delivers the high level of performance needed for demanding professional video applications. The CompactFlash memory cards are small, lightweight, and extremely durable. They hold up to 8 GB today, and offer sufficient throughput for both SD and HD recording. Both REV and CompactFlash media offer unprecedented advantages in terms of usability, price, and performance. They offer many benefits for video professionals such as nonlinear random access to video files, simultaneous read and write from the media, and non-degrading archival storage.

Flexible Choice of Format and Compression

The Infinity Digital Media Recorder records and plays back numerous video formats and standards, switchable by user input. It provides support for 525i60, 625i50, 1080i50, 1080i60, 720p50, or 720p60. This makes it superb for multi-format uses or for migration from standard definition to high definition within your operation.

Infinity products provide you a choice of compression schemes with the option of selecting what is best for your workflow today and in the future. The Infinity Digital Media Recorder offers DV25 and JPEG 2000 compression with configurable data rates assignable via the user interface. Optional MPEG support will be available in future versions or as an upgrade. The innovative JPEG 2000 is a next generation compression scheme that can be used for both SD and HD recording. It provides low-cost, high-efficiency compression, better image quality, and is fully scalable by encoding once and decoding many different resolutions as needed.



Infinity Digital Media Recorder

Next Generation IT-Immersed VTR Replacement



Ultimate Connectivity

The Infinity Digital Media Recorder is an ideal VTR replacement for use in existing tape-based video environments or IT networks. The deck uses both traditional I/O as well as IT-based interfaces for the ultimate in flexibility. Standard video I/Os include digital HD-SDI, SDI, analog composite, time code, and reference-signal input. Audio I/O interfaces include XLR3 analog and AES/EBU digital. IT-based interfaces include Gigabit Ethernet, USB 2.0, and FireWire (IEEE 1394). The deck connects to external storage devices via USB or FireWire connections, or to a network via Ethernet. All IT interfaces support file transfer and streaming.

User Interfaces—Familiar and Sophisticated

Operators can use traditional VTR controls such as play, search, and record buttons or a jog/shuttle knob to quickly search for clips. The front-panel LCD offers greater control over the deck, including video monitoring, clip management, audio metering, output and compression configuration, metadata editing, and more. An external monitor can be added for greater functionality via the High Definition Multimedia Interface (HDMI) connector.

Enhancing Your Workflow

The Infinity Digital Media Recorder enhances your existing workflow today, while helping you transition into more efficient IT workflows in the future. REV PRO or CompactFlash media can be used to replace videotape in the field, in preview rooms, in edit bays, in control rooms—anywhere you use a VTR today. In addition, the deck can be connected directly to a nonlinear editing workstation, or for greater accessibility, it can be attached to a file server for immediate enterprise-wide use. With multi-stream capabilities, video data can be transferred while another source is being recorded. The Infinity Digital Media Recorder redefines the tape-based workflow by fully embracing advanced technologies, connectivity, and convenience—making it an ideal choice for today and tomorrow.

Key Features

- Recording/playback on Iomega REV or CompactFlash removable media
 - True nonlinear, random access
 - Allowing simultaneous read and write from the media
- Video/audio/metadata files written in an open, MXF-based wrapper
- HD/SD multi-format support including 1080i50/60, 720p50/60, 625i50 and 525i60
- Supports DV25, JPEG 2000, and MPEG compression schemes
 - DV25 Mb/s 4:1:1 or 4:2:0 (DVCAM and DVCPRO)
 - JPEG 2000 high-efficiency, scalable compression for both SD (4:2:2, 10 bit) and HD (4:2:2, 10 bit)
 - MPEG-2* for both SD (4:2:0 and 4:2:2) and HD (4:2:0)
- Traditional video I/O (selectable): HD-SDI, SDI, CVBS, time code, reference
- Audio I/O: eight-channel embedded SDI and AES/EBU, four-channel analog
- IT interfaces: USB 2.0, FireWire (IEEE 1394), Gigabit Ethernet
- Supports recording to external storage devices via USB or FireWire connections
- File transfer and streaming over IP connection*
- Remote control over LAN or WiFi* connection
- Standard video processing, including slow motion playback (–1x to +3x)
- Traditional front-panel VTR-type controls such as play, search, record buttons, and jog/shuttle knob
- Built-in LCD graphical user interface
 - Video monitoring and clip management
 - Selection of sources and outputs
 - Audio metering
- Support for metadata
- Compact and lightweight
- Half-rack width

* Future release



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.

Headquarters

17 rue du Petit Albi-BP 8244
95801 Cergy Pontoise Cedex
FRANCE

Sales and Technical Support Numbers

North America

Sales/Support +1 800 547 8949
+1 530 478 4148

Latin America

Sales +1 786 845 5601
Support +1 530 478 4148

Pacific

Sales +852 2531 3000
Support +852 2531 3056

Rest of the World

Sales +33 (0) 1 34 20 70 00
Support +800 80 80 20 20
(West/North Europe only)
+33 (0) 1 48 25 20 20
(East Europe, Middle East, Africa)

To find an account representative, dealer, or distributor nearest you, visit

www.thomsongrassvalley.com/sales

SER-1005

©Copyright 2005 Grass Valley, Inc. All rights reserved. Printed in U.S.A. Infinity and Grass Valley are trademarks of Grass Valley, Inc. All other tradenames referenced are service marks, trademarks, or registered trademarks of their respective companies. Specifications are subject to change without notice.