



Infinity Digital Media Camcorder

Next Generation IT-Immersed Camcorder



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 Camcorder offers a feature-rich, flexible approach to SD/HD multi-format acquisition with a choice of recording media, compression, and connectivity options.

The Grass Valley™ Infinity™ Digital Media Camcorder signifies a revolutionary step in ENG and EFP acquisition—combining the best of Grass Valley's multiple Emmy® award-winning camera engineering with leading IT recording and connectivity technologies. This camcorder is part of the new Infinity Series product line—designed from the ground up to bring all the benefits of advanced technologies to the broadcast and production industries. This line represents the future of acquisition and recording products, delivering affordable, open, and truly flexible systems.

Advanced Camera Technology

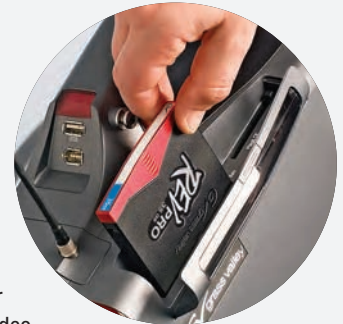
The Infinity Digital Media Camcorder provides a choice of video formats and standards selectable within the camera. You can choose 525i60, 625i50, 1080i50, 1080i60, 720p50, or 720p60. SD formats are selectable in either 16:9, 4:3, or letterbox aspect ratios. This makes it ideal for multi-format acquisition and for straightforward migration from standard definition to high definition within your workflow.

The camcorder provides 14-bit digital imaging for crystal-clear quality with advanced video processing for image control and in-camera digital effects filters.

IT-based Recording Media

The Infinity Digital Media Camcorder is the first camcorder to use 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 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 memory is a readily-available solid-state technology that delivers the high level of performance needed for demanding professional video applications. CompactFlash 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 playback while recording, and non-degrading archival storage.



On-board Selectable Compression

Infinity Series products provide you a choice of compression schemes and bit rates, giving you the option to select what is best for your workflow today and for the future. The Infinity Digital Media Camcorder supports DV25, JPEG 2000, and MPEG-2* compression, assignable via the camera's user interface. The DV codec is 25 Mb/s 4:1:1 or 4:2:0 (DVCAM and DVCPR0), making it ideal for immediate use in your workflow today. The innovative JPEG 2000 is a next generation compression scheme that can be used for both SD and HD acquisition. It provides low-cost, high-efficiency compression, better image quality, and is fully scalable by encoding once and decoding many different resolutions as needed. Industry-standard MPEG-2 compression is also available on select camcorder models and can be used for both SD and HD.

Ultimate Connectivity

The Infinity Digital Media Camcorder connects using both traditional audio/video as well as IT interfaces. Traditional inputs/outputs include BNC connectors for (HD-)SDI, CVBS, TC, AES audio, and XLRs for analog audio. The camcorder comes with three USB 2.0 connectors (two hosts and one device), one FireWire (IEEE 1394) connector, one HDMI display connector, and a Gigabit Ethernet port. It can also connect to an external storage device (such as a hard drive or flash memory stick) via USB or FireWire. Or it can connect to a network via Ethernet.



**MPEG-2 encoding is available on select camcorder packages.*



Infinity Digital Media Camcorder

Next Generation IT-Immersed Camcorder



LAN connectivity greatly improves camera functionality by providing remote video control, metadata embedding, and file transfers over IP connections. Viewfinders and other standard display devices, such as PC monitors, can easily connect via the built-in HDMI connector. Analog and digital (AES/EBU) audio is configurable from eight selectable input sources and four recording channels.

User Interface

Camera operators can manipulate the camera through traditional controls for standard operation and through a side-panel TFT touch-screen display. The built-in PDA-type user interface allows for video monitoring, clip management, audio setup and metering, detailed camera configuration, and metadata editing. Metadata such as names, dates, slugs, locations, and even camera settings can be created or edited before, during, or after the recording.

Enhancing Your Workflow

The Infinity Digital Media Camcorder enhances your existing workflow today, while helping you transition into more efficient IT workflows in the future. Media from the camcorder may be used like videotape in tape-based workflows. The only difference would be the use of digital media recorders and digital media drives as tape machine substitutes. However, Infinity Series products offer more than videotape replacement to your workflow. For instance, in nonlinear editing environments, a REV PRO Drive or CompactFlash card reader can easily also be connected to a workstation for direct access. For greater accessibility, the files on the media could be directly copied to a file server for immediate enterprise-wide use. The camcorder can also be connected to a LAN for background file transfers even while recording. With metadata assigned at the capture phase, or any time in the process, files can be edited, sorted, and found with greater ease no matter where they are stored. The Unique Material ID (UMID) makes sure content on different media can be uniquely addressed and easily found. The Infinity Digital Media Camcorders redefine the ENG/EFP workflow by fully embracing IT-based technologies, connectivity, and convenience.

Key Features

- HD/SD multi-format support including 1080i50/60, 720p50/60, 625i50 and 525i60
- Recording/playback to and from integrated Iomega REV and CompactFlash media
- Video/audio/metadata files written in an open, MXF-based wrapper
- Supports DV25, JPEG 2000, and MPEG-2* compression schemes
 - DV 25 Mb/s 4:1:1 or 4:2:0 (DVCAM and DVCPR0)
 - 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)
- Simultaneous read/write to and from REV and CompactFlash media
- Traditional inputs/outputs include BNC connectors for (HD-)SDI, CVBS, TC, AES audio, and XLRs for analog audio
- IT-based interfaces
 - Three USB 2.0 connectors (two hosts and one device)
 - One FireWire (IEEE 1394) connector
 - HDMI display connector
 - Gigabit Ethernet
- Remote control and file transfer over IP connections
- Configurable four-channel audio router with eight selectable input sources
- 14-bit digital HD camera head with advanced video processing
 - Instant adjustable variable color temperature and master gain
 - Digital effects including sepia, monotone, soft focus, gradients, etc.
- Built-in PDA-type user interface
 - Video monitoring and clip management
 - Audio setup and metering
 - Detailed camera setup and configuration
 - Metadata insertion and editing
- Lightweight package weighs only 4.5 kg (9.92 lbs) without lens

**MPEG-2 encoding is available on select camcorder packages.*



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

CAM-1024

©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.