

T2 iDDR

INTELLIGENT DIGITAL DISK RECORDER

The T2 intelligent digital disk recorder (iDDR) brings full high-definition capture and playback to the video professional. Additionally, the T2 iDDR has been designed to work efficiently and smoothly with Grass Valley EDIUS nonlinear editing software and the Indigo A/V mixer.



The T2™ iDDR is the latest addition to the Grass Valley™ family of Intelligent Digital Disk Recorders (iDDRs). The iDDR is a new class of VTR replacement that leverages the digital storage, networking, and media-management capabilities of our Emmy® Award-winning video servers.

The T2 intelligent digital disk recorder (iDDR) brings full high-definition capture and playback to the video professional. Additionally, the T2 iDDR works with standard-definition video and may be controlled from other production devices such as the Indigo™ A/V mixer.

The T2 iDDR is a complete and self-contained SD and HD audio/ video playout center. The front-panel transport controls are designed to look and feel

very much like those of traditional VTRs and its two output channels support standard- or high-definition content with real-time up/down conversion. The crisp, clear LCD front panel can display high-quality images and is complemented by a software application suite for managing and selecting media clips, clip editing and trimming, and playout—including playlist creation.

Featuring extensive rear-panel audio/ video connectivity, the T2 iDDR can also accept files via USB 2.0, or by data transfer over a standard gigabit Ethernet network. The T2 iDDR also accepts media from other applications, including HQAVI, MPEG-2, QuickTime, Windows Media Video HD, and still picture files.

With the T2 iDDR, users can exchange content at high speed over a network or via removable media, such as SSD through USB, FireWire (IEEE 1394), or the dedicated 2.5-inch HDD/SSD slot. Further, the T2 iDDR can be controlled by our Indigo A/V mixer—which combines features normally found in video production switchers, presentation mixers, and audio mixers—to create a powerful presentation system. The T2 iDDR has two playout channels for independent editing and previewing, or for delivering content to two different display systems simultaneously. The T2 iDDR has also been engineered to seamlessly integrate with Grass Valley EDIUS® nonlinear editing software.

KEY FEATURES

- Fully independent 1-channel input, 2-channel output DDR
- Full HD support for 1080p24, 1080i50/60, and 720p50/60
- HD/SD-SDI inputs and outputs
- Real-time up/downconversion
- Video file import (Grass Valley HQ, MPEG-2, QuickTime, DV, DVCPRO HD, H.264, ProRes422, and WMV)
- Extension of file importing and playback capabilities with Broadcast (P2 and XDCAM) codec options
- Still and sequence file importing (JPEG, BMP, TIFF, and TGA)
- Video file export (Grass Valley HQ, and MXF-XDCAM)
- High bit-rate video record and playback with Grass Valley HQ and 4:2:2 color space
- User-friendly, ergonomic front panel controls with 7-inch wide display and external Workstation mode included
- Full set of analog and digital AV connections for each channel
- Wide range of control protocols: RS-422A for each channel, AMP, and GPI
- Integrated transition effects
- Applications:
 - Events and staging
 - Auditoriums
 - Corporate AV centers
 - Education facilities
 - Broadcast
 - Community television (CATV)
 - Regional sports companies
 - Support for Grass Valley Indigo A/V Mixer

Full-Featured Front Panel



Extensive Rear Panel Connectivity



SPECIFICATIONS

T2 iDDR Configurations

Unit A – 1 SD/HD input, 2 SD/HD outputs

Video Input

Format Support Types: High-definition, standard-definition

Connections: SD/HD SDI, analog component (Y-Pb-Pr), DVI-I, composite

Recording Format: HQ, 4:2:2

Bit Rate: Up to 200 Mb/s

Resolutions SD/Frame Rate:

720x486/29.97, 720x576/25

Resolutions HD/Frame Rate:

1920x1080p24,
1920x1080i29.97/25,
1280x720p59.94/50

Video Outputs

Format Support Types: High-definition, standard-definition, computer

Connections: SD/HD SDI, analog component (RGB or Y-Pb-Pr), DVI-I, composite

Recording Format: Grass Valley HQ, 4:2:2

Bit Rate: Up to 200 Mb/s per channel

Resolutions SD/Frame Rate:

720x486/29.97, 720x576/25

Resolutions HD/Frame Rate:

1920x1080i29.97/25,
1920x1080p59.94/50,
1920x1080p/psf24/23.98,
1280x720p59.94/50/24/23.98

Computer Resolutions: 1280x1024,
1024x768, 800x600, 640x480

Audio Input

Analog Audio: 2 channels, XLR connections

Digital:

- AES/EBU (2 channels), BNC connections
- Embedded audio on SDI, HD or SD (8 channels)

Recording Format: 24-bit, PCM, 48 kHz sampling (20-bit PCM for SD-SDI)

Audio Output

Analog Audio: 2 channels per output video, XLR connections

Digital:

- AES/EBU (2 channels), BNC connections
- Embedded audio on SDI, HD or SD (8 channels)

Recording Format: 24-bit, PCM, 48 kHz sampling (20-bit PCM for SD-SDI)

Import/Export File Compatibility

Import: Grass Valley HQ

Export: Grass Valley HQ

Transcode Import: MPEG-2, WMV, QuickTime, JPEG (still and sequence), BMP (still and sequence), TIFF (still and sequence), and TGA (still and sequence) to Grass Valley HQ

Control

Protocol: BWW (Basic), GPI, AMP (Advanced Media Protocol) for Indigo A/V Mixer and external control software

Connections: RS-422 (9-pin D Conn per channel), Ethernet

Technology

Connections: Gigabit Ethernet, USB 2.0, VGA

Storage Capacity: 2 or 4 disk drives, Approx. 9 hours of HD @ 150 Mb/s, 25 hours of SD @ 50 Mb/s

Bit Rate: Up to 200 Mb/s per channel

Physical

Dimensions: 550x430x140 mm (21.6x16.9x5.5 in.)

Weight: 15 kg (33 lbs.)

Operating Temperature: 5°C to 35°C (41°F to 95°F)

Options and Accessories

Rackmount Kit

CUSTOMER SUPPORT & SERVICES

Our customer support and services offerings ensure optimal system performance and maximize uptime. These services include call centers staffed around the clock, commissioning, professional training courses, and technical maintenance programs and service agreements.

www.grassvalley.com/support