

## G4-RTA-D1 Enterprise Class Digital Video Recorder

4CIF, 480FPS, 4-16 CAMERA INPUTS, 4-16 CHANNEL AUDIO, PENTAPLEX, DVD-RW

### Product Features

- H.264 Hardware Compression
- 4CIF Real-Time Recording
- Up to 480 Frames per Second
- Up to 16 Video Inputs, 16 Audio Inp
- Pentaplex
- E-SATA Hard Drive Backup
- VOIP
- USB Support
- Complete Remote Access
- RS485 PTZ Support
- Channel Independent Configuration
- VGA and Spot Monitor Included
- Central Monitoring Software
- Embedded Network Web Server
- Digital Motion Detection



The G4-RTA-D1 digital video recorder is the highest specification standalone 4CIF (D1) DVR available. It rivals over its predecessor (RTA) with double the recording resolution at full D1, DVD-RW for larger backup files, SATA hard drives, and spot monitor output.

The G4-RTA-D1 is an enterprise class digital video recorder utilizing H.264 hardware compression DSPs from Texas Instruments. The G4-RTA-D1 can push real-time video and audio recording at a full 4CIF resolution on every channel.

The versatility of this unit is extensive. Each camera input can be independently configured with variable bit rates, frame rates, record modes, compression, and more. Each channel also supports audio recording using the OggVorbis audio standard at a 16 kbps bitrate. The output video and audio streams are integrated to comprise the synchronized H.264 stream. Video and audio coincide with each other from beginning to end.

The included DVD writer allows for larger files to be copied to most DVD formats for later viewing.

Remote viewing, playback, configuration, upgrade, reboot, and backup are all standard on the G4-RTA-D1. The embedded web server enables users to perform all these remote function via an Internet Explorer web browser, eliminating the need to install software. Client software is also included for central monitoring and alerts for as many as 16 G4-RTA-D1 units. Dual streaming configurations are also a standard feature allowing high resolution recording on the unit locally, while lower bit rates and resolution are used for remote viewing, conserving network bandwidth and increasing remote viewing quality and performance. Two-way voice talk and audio over the Internet is also standard on the G4-RTA-D1.

Up to 8 internal hard drives of storage can be installed in the unit, providing years of recording under proper recording parameters.

3<sup>rd</sup> generation digital surveillance technology utilizing a proprietary OS, embedded web server, and TI DSPs bring together the most powerful network-based digital video recorder available.

# TECHNICAL SPECIFICATIONS

## MODELS

G4-4RTA-D1	Standard 4ch base unit
G4-8RTA-D1	Standard 8ch base unit
G4-16RTA-D1	Standard 16ch base unit

## GENERAL

Video Inputs	4,8,16 inputs, 1.0Vp-p, 75Ω unbalanced
Video Outputs	1 Main Monitor 1 Spot Monitor 1 VGA
Audio Inputs	4,8,16 audio inputs (2.0Vp-p, 1KΩ)
Audio Outputs	1 audio output (linear output, 600Ω)
Voice Interface	1 (linear, 1KΩ)
Audio Compression	OggVorbis, 16kbps
Video Compression	H.264
Preview Resolution	NTSC: 704 x 480 (4CIF/D1)
Compression Resolution	NTSC: 704 x 480 (4CIF/D1) NTSC: 528 x 320(DCIF) NTSC: 704 x 240(2CIF) NTSC: 352 x 240(CIF) NTSC: 176 x 120(QCIF)
Color	16.7 Million
Stream Type	Video or Video/Audio
Bit Rate	32kbps ~ 2Mbps (user-defined), variable
Recording Frame Rate	30 frames/sec/channel
Record Quality	Highest, Higher, High, Average, Low, Lower, Lowest
Record Mode	Schedule, Motion, Alarm, Motion or Alarm, Motion & Alarm, Command Trigger
Playback Mode	Date/Time Search or Event Search
Operation Mode	Pentaplex (simultaneous monitor, record, playback, network, and backup)
Motion Detect	Area Division: 16 x 12, on/off selectable Motion Detect and Relay On Simultaneous
Privacy Masking	Yes
View Tampering	Yes
Network Function	Internet Explorer and Client Software
Alarm	4,8,16 Alarm Inputs / 4 Relay Output
Back-up	E-SATA HDD / DVD-RW / USB / Network
RS485	Keyboard Controller / PTZ
HDD Interface	4 SATA, support 8 HDD and each HDD can support 2000GB (special bracket required). Or 4 HDD + SATA DVD-R/W (all)
VGA Interface	1, Support 800×600/60Hz, 800×600/75Hz, 1024×768/60Hz

## MECHANICAL

Video Inputs	BNC female
Video Output	BNC female
Monitor Output	BNC female
Audio Inputs	BNC female
Audio Output	BNC female
Alarm Inputs	Screw Terminals
Alarm Outputs	Screw Terminals
RS485	Screw Terminals
Network	RJ-45 10M/100M UTP
VGA	9-pin D-sub female
RS-232	RJ-45
USB	USB 1.1 Type A port
IR Remote Controller	Standard, Addressable
Voice Interface	BNC

## ELECTRICAL

Power Requirements	90--135VAC or 180--265VAC, 47--63 Hz
Power Consumption	22W ~42W (without HDD)

## ENVIRONMENTAL

Operating Temperature	14° to 131°F (-10° to 55°C)
Operating Humidity	10-90% RH Max.

## PHYSICAL

Dimensions	19in. 450(w) x 95(H) x 450(D)mm
Weight	16.8 lb (7.6 kg) approx. (without HDD)
Shipping Weight	21.2 lbs (9.6 kg) approx.

## OPTIONAL ACCESSORIES

N/A