



Computer / Radar / Sonar / HD / FLIR / X-Ray

Highest fidelity JPEG2000 reproduction

Up to HD and 1920x1200 resolution

Multicast streaming

Interframe compression

Event marking

Instant random access

Simultaneous record and playback

External time code synchronization

Variable speed playback

Automatic back-up

Frame jog / shuttle

Multi-unit synchronization

Compact 1RU size

Simulation Command & control Missile testing / telemetry Mission analysis Medical Training Air traffic control Security & monitoring

JPEG 2000 DIGITAL GRAPHICS RECORDERS

DGy 201H D, 201x, 401x

DGy[™] codecs record, transmit, and stream high scan rate images. The DGy sets a new standard in terms of image quality, using JPEG2000 compression to achieve visually lossless recording to internal disk drives or network attached storage devices such as RAIDs. DGy wavelet-based codecs provide results superior to more common DCT based compression schemes.

DGy systems capture, compress, store, replay, and stream imagery at up to 1920 x 1200 pixel resolution. They support recording of computer, radar, sonar, FLIR, X-Ray, and HD signals at up to 30 frames per second, plus stereo audio. Models are available with a removable hard disk and an optional fixed drive offering recording storage from 8 to 32 hours per drive. They also offer the option to use external network attached storage for centralized, higher capacity storage. The DGy 401x can record 2 inputs at half rates with fully synchronized playback.

All DGy recorders offer standard JPEG2000, plus interframe compression making them an ideal solution for streaming graphics across networks where higher compression rates are necessary to avoid overtaxing network bandwidth. The recorders also support file transfer with remote computers or file servers using standard FTP protocol.

Features include external time code synchronization (IRIG-B or Network Time Server), event marking, random access, variable speed playback, and frame-by-frame jog shuttle. Multiple DGy units can be interconnected to support simultaneous, synchronized recording of multiple channels. Remote playback on a Windows PC is supported using a JPEG2000 plug-in to the standard Windows Media Player. A simultaneous record/replay option allows review of imagery while recording is still in process.

A combination of superb image quality, rich feature set, and outstanding performance make DGy recorders the ideal solution for demanding, mission critical application.

	201HD	201x	401x
Maximum record/replay resolution	1920x1200	1600x1200	1600x1200
Frame rate at maximum resolution	30fps	20fps	20fps total
Frame rate at 1280x1024 resolution	30 fps	30fps	30fps total
Recording/playback channels	1	1	2

Specifications

specifica	Order #	DGy 201 HD	DGy 201x	DGy 401x		
High Res	solution Graphics Input			-		
Analog						
minog	Number Connector type Signal formats Video level Input impedance Sample rate Resolution Sync Sync level	1 DVI-I single-link Interlaced or non-interlaced Nominal 0.7 V p-p (1.0 V composite p-p) 75 Ohms Up to 170 MHz Up to 1600x1200 (models 201x & 401x); up to 1920x1200 (models 201HD) 3 wire (sync on green), 4 wire (separate composite sync), 5 wire (separate H and V sync) 0.3 V p-p (3 wire), 1 to 5 V (4 and 5 wire)				
Analog	RGB		, , . (,			
	Number Connector type Resolution Pixel rate	Models 201HD & 201x: 1 Model 401x: 2 (with DVI loop) DVI-I single-link Up to 1600x1200 (models 201x & 401x); up to 1920x1200 (model 201HD) Up to 165 MHz				
Audio In	-					
Analog Externa	Number Sample rate Audio level (line) Input impedance Connector type l I Time Code Synchronization					
	Network Time Server IRIG (Option)	User selectable p	Time Protocol (NTI olling intervals. LS or 1kHz modula			
		up to 1920x1200 3 wire (sync on g 5 wire (separate l	(models 201x & 401 (model 201HD) reen), 4 wire (separ	ate composite sync),		
Audio O	utputs —	1 or 2 (model 401 Up to 1600x1200 Up to 1920x1200 DVI-I	(models 201x & 401	lx);		
Analog	1					
Data Sto	Number Audio level (line) Output impedance Connector type	Dual Channel Mo 1 V p-p nominal	lode: 2 mono or 1 st ode: 2 mono or 1 ste suitable for 10k Ohn			
Data Sto.	Removable drive Fixed drive Network file storage	Standard Option Option				
Control-						
Netwo	rk Connection Type Connector type Command line Graphical interface	Type 10/100/1000 RJ 45 Internal telnet ser Internal web serve	ver	l control panel software		
RS-232	Serial Connector type Baud rate Function	9 pin D sub femal 9600 baud to 1151 Command line co		inctions		
	Power Size Rackmount Weight		toranging, 50-60 Hz v) x 19"/28.26 cm (d	< 60 Hz) x 1.75"/4.45 cm (h)		
	DECTDUM	9				



DGy model 201HD/201x back panel with optional IRIG-B time code

950 Marina Village Parkway Alameda, CA 94501 (510) 814-7000 (510) 814-7026 FAX www.rgb.com e-mail: sales@rgb.com