

FEATURES

- Integrated digital video recorder, multiplexer and video server (4, 9 or 16 channels)
- Triplex operation enables users to simultaneously view live and previously recorded video while continuing to record at the same time, using either one or two monitors
- Outstanding picture quality: Live display resolution 720 x 480 (NTSC), 720 x 576 (PAL); Record resolution 720 x 224 (NTSC), 720 x 272 (PAL)
- Records up to 60 ips NTSC, (50 ips PAL) shared across all channels
- Active Window enables live video display up to 30 ips NTSC (25 ips PAL) for one user-selectable window – provides aggregate live display up to 90 ips NTSC (75 ips PAL)
- Record and playback one channel of audio
- DigiRemote, a fully functional infrared remote control, includes dome control
- Flexible internal storage: 80, 160 and 320 GB
- Export video and audio as AVI files via the USB port to compatible USB devices such as CD-RWs, hard drives and ThumbDrives.

- Playback exported or downloaded AVI files using Windows Media Player
- Networkable via Ethernet (TCP/IP)
- Easy-to-use DigiClient, browser-based remote viewing and configuration software
- Covert camera operation provides enhanced security and administrator control
- Motion detection with configurable sensitivity levels
- Remote alarm notification includes DigiClient software, e-mail, pager or phone
- Pre-alarm video (up to five minutes)
- Preset Config enables quick and easy setup of record options
- Digital signature verifies authenticity of recorded video
- Control a variety of domes directly from DigiMux, DigiRemote or DigiClient
- Individual camera settings for key functions
- Update software via USB ThumbDrive*

The DigiMux™ DG4000 series digital surveillance system includes a multi-channel Digital Video Recorder (DVR) with 4, 9 or 16 camera inputs, DigiClient™ remote viewing and configuration software, and one DigiRemote™ infrared (IR) remote control. This is a multifaceted product that integrates key elements into a single security CCTV solution. DigiMux triplex operation enables users to simultaneously view live and previously recorded video while continuing to record at the same time. DigiMux essentially replaces two time-lapse VCRs, a multiplexer, and a video server all in one space-saving digital solution.

DigiMux converts analog video signals into digital video images that can be stored on an array of hard disk drives. A key advantage to digital video is that it can be indexed by time or events, and recorded video can be instantly viewed. DigiMux users can access recorded video instantaneously without having to rewind videotapes. At the touch of a button, fast forward, rewind, and pause while avoiding image streaking or tearing that is common with analog VCR technology.

DigiMux can be remotely controlled with DigiClient via Ethernet connection to a LAN, WAN or the Internet. DigiRemote, a full-functional infrared remote control, provides control of DigiMux including dome control. Three USB ports enable video export to compatible external USB devices such as CD-RWs, hard drives or ThumbDrives. Exported video may be easily viewed in Windows Media Player.

DigiMux offers advanced features not typically found in standard multiplexers, including remote alarm notification, remote access, and real-time Active Window. DigiClient remote viewing and configuration software extends the features, accessibility, and usability of DigiMux. All around, DigiMux is a full-featured integrated digital surveillance solution that can be used in virtually any application.

^{*}ThumbDrives available separately.

SPECIFICATIONS

Model Numbers**

model Hambers	
ADDG4004080N	DigiMux DG4004, 4 channel, includes
	DigiClient SW & DigiRemote, 80 GB,
	NTSC
ADDG4004080P	DigiMux DG4004, 4 channel, includes
	DigiClient SW & DigiRemote, 80 GB, PAL
ADDG4004160N	DigiMux DG4004, 4 channel, includes
	DigiClient SW & DigiRemote, 160 GB,
	NTSC
ADDG4004160P	DigiMux DG4004, 4 channel, includes
7122 G 100 11001	DigiClient SW & DigiRemote, 160 GB,
	PAL
ADDC4004220N	DigiMux DG4004, 4 channel, includes
ADDG4004320N	
	DigiClient SW & DigiRemote, 320 GB, NTSC
ADD C 100 1220D	
ADDG4004320P	DigiMux DG4004, 4 channel, includes
	DigiClient SW & DigiRemote, 320 GB,
	PAL
ADDG4009080N	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 80 GB,
	NTSC
ADDG4009080P	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 80 GB, PAL
ADDG4009160N	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 160 GB,
	NTSC
ADDG4009160P	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 160 GB,
	PAL
ADDG4009320N	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 320 GB,
	NTSC
ADDG4009320P	DigiMux DG4009, 9 channel, includes
	DigiClient SW & DigiRemote, 320 GB,
	PAL
ADDG4016080N	DigiMux DG4016, 16 channel, includes
	DigiClient SW & DigiRemote, 80 GB,
	NTSC
ADDG4016080P	DigiMux DG4016, 16 channel, includes
122 6 10100001 11111111111	DigiClient SW & DigiRemote, 80 GB, PAL
ADDG4016160N	DigiMux DG4016, 16 channel, includes
ADDG-0101001V	DigiClient SW & DigiRemote, 160 GB,
	NTSC
ADDG4016160D	DigiMux DG4016, 16 channel, includes
ADDG4010100F	
	DigiClient SW & DigiRemote, 160 GB,
ADDC 401(220NI	PAL
ADDG4016320N	DigiMux DG4016, 16 channel, includes
	DigiClient SW & DigiRemote, 320 GB,
ADDC 404 (2222)	NTSC
ADDG4016320P	DigiMux DG4016, 16 channel, includes
	DigiClient SW & DigiRemote, 320 GB,
¹¹ DG4004 & DG4009 series as	well as DG4016 PAL models only,

available Fall 2003.

Accessories

ADACTD01128U	USB ThumbDrive Smart 128 MB
ADDGRC20	DigiMux, DigiRemote, infrared remote
	control, additional

Visit www.americandynamics.net for monitors, cameras and other accessories.

General

Passcode Protection	.Administrator or user
Motion Alarm Generation	.Two motion detection conditions per
	camera
Alarm Notification	.Front panel, buzzer, main monitor alarm
	icon, DigiClient software, e-mail, pager* o
	phone*
Pre-Alarm Images	.Up to 5 minutes per camera
Camera Auto Detect	.Automatically begins recording new
	camera inputs
Search Options	.Event, camera, time and date
Scheduling	.Set day, night or weekend schedules
Network Connectivity	.10/100 Mbps Ethernet (TCP/IP)
Call Monitor Sequencing	.Establish programmable call monitor
	sequences
Dome Control Protocols	.AD422, Pelco P and Pelco D
Domes Supported	.American Dynamics SpeedDome Series
	and others
Dome Control	.Built-in control via front panel controls,
	DigiClient software or DigiRemote
Remote Control	.Includes a DigiRemote infrared (IR)
	remote control
Export Video Clip	.Via USB devices such as CD-RW or
	ThumbDrive
	.Multimedia digital signal processor
Operating System	.Embedded
Languages	.English, (French, German, Italian and
	Spanish) [†]

Video

Signal Format
(1 Vp-p, 75 Ω with individual software termination)
Monitor OutputsTwo composite outputs (1 Vp-p,
75 Ω), One S-video output
Video Display Resolution720 x 480 (NTSC), 720 x 576 (PAL)
Record Resolution
Playback/Record SpeedUp to 60 ips (NTSC), 50 ips (PAL)
Live Video Refresh Live video displayed up to 90 ips (NTSC), 75 ips (PAL)
Active Window
Display OptionsFull, 2x2, 3x3, 4x4, PIP, sequence
Video AuthenticationDigital signature on video export

Alarm

Alarm Input	4, 9, 16 TTL compatible [△]
Alarm Output	Three dry contacts [△]
Alarm Reset Input	One TTL compatible [△]
Alarm Set Input	One TTL compatible [△]
Day/Night Switch	One TTL compatible [△]

* Requires Caller ID function. † French, German, Italian and Spanish available Fall 2003. a Via I/O connector board, included.

Audio

Front Panel Controls

Front Panel Indicators

Front Connectors

USB PortOne USB connector port

Rear Connectors

Main Monitor OutputOne BNC (composite), one S-video Call Monitor OutputOne BNC (composite) Audio InRCA connector Audio OutRCA connector for easy alarm and dome control connections (included) Ethernet PortOne RJ-45 LAN port USB PortTwo USB connector ports future use) Power InputDC Jack

Storage

Primary Internal StorageEIDE hard disk drive
Secondary Internal StorageEIDE hard disk drive
ExportUSB (on front and back of unit)

Electrical

PowerExternal auto-ranging power supply, 100 to 240 VAC, 500 mA, 50/60 Hz, input power DC 19 V, 3.4 A

Mechanical

Minimum Systems Requirements for DigiClient Software

Operating System .	Windows XP or Windows 2000
Processor	Pentium III, 600 MHz or faster
Memory	128 MB RAM
Screen Resolution .	XGA, 1024 x 768 pixels, 16 bit or higher
Connectivity	10BaseT or 100BaseTX
Web-Browser	Microsoft® Internet Explorer 6.0 or higher
Peripherals	

DigiRemote

Functions
forward, 1 to 16 camera/channel selection,
up, down, left, right directional controls, set,
sequence, mode, lock and dome control
IR Distance
Battery TypeTwo "AA" 1.5 V, included
Size (DigiRemote)
1.8 x 7.0 x .75 in
Weight (DigiRemote) 0.11 kg (0.24 lbs)

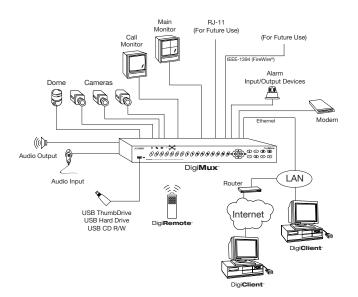
Regulatory

Emissions	.FCC Part 15, Subpart B, Class A
Safety	.UL and CUL 1950
	CE

Environmental

Operating Temperature 5° to 40° C (41° to 104° F)
Storage Temperature20° to 70° C (-4° to 158° F)
Humidity

BASIC SYSTEM DIAGRAM



Digi**Mux**®

Number of Days of Recording (without Audio)

	Recording Picture Quality Mode							
Recording Rate		BASIC		MEDIUM		SUPERIOR		
seconds per image	Image/sec NTSC	Image/sec PAL	NTSC (10 KB)	PAL (12 KB)	NTSC (15 KB)	PAL (18 KB)	NTSC (28 KB)	PAL (33 KB)
80 GB Sto	rage							
0.02	60	50	1.5	1.5	1.0	1.0	0.6	0.6
0.03	30	25	3.1	3.1	2.1	2.1	1.1	1.1
0.10	10	10	9.3	7.7	6.3	5.2	3.3	2.8
1.00	1	1	92.6	77.2	62.6	52.3	33.4	28.1
160 GB St	orage							
0.02	60	50	3.1	3.1	2.1	2.1	1.1	1.1
0.03	30	25	6.2	6.2	4.2	4.2	2.2	2.2
0.10	10	10	18.5	15.4	12.5	10.5	6.7	5.6
1.00	1	1	185.2	154.3	125.1	104.6	66.9	56.1
320 GB Storage								
0.02	60	50	6.2	6.2	4.2	4.2	2.2	2.2
0.03	30	25	12.3	12.3	8.3	8.4	4.5	4.5
0.10	10	10	37.0	30.9	25.0	20.9	13.4	11.2
1.00	1	1	370.4	308.6	250.3	209.2	133.7	112.2

NOTE: Record duration times are based on actual tests and represent average file sizes. Performance may vary depending on specific installations and use. Audio recording requires 8 KB per second (or 0.7 GB per day) for data storage.

Recording Quality

There are five different record quality settings: Superior, High, Medium, Standard, and Basic.

Superior:

This setting provides the best quality video recording. Use this setting if you are most concerned about details of the images and least concerned about the record duration. The average file size is 28 KB NTSC (33 KB PAL).

High:

This setting provides acceptable image quality, but is not as good as the Superior setting. Use this setting for satisfactory recorded images and increased record duration. The average file size is 19 KB NTSC (22 KB PAL).

Medium, Standard and Basic:

These settings do not provide a high level of detail in images recorded, but recording duration is increased. Use this setting when your concern is primarily extended recording duration, not image detail. Average file sizes range from 10 KB to 15 KB NTSC (12 KB to 18 KB PAL), depending on your selection.