

Hi-Q™

Real Time Digital Video Recorders

- **Simultaneously Records Four Channels of Real Time, High Resolution Video**
- **Record, Play Back & Archive Video Simultaneously**
- **Front Panel Control of Video Recording, Playback & Archival**
- **Real Time & Time-lapse Recording Modes**
- **Event Only Recording with Pre- & Post-alarm Video**
- **Instant Alarm Retrieval**
- **Reliable & Robust Embedded System, No PC Required**
- **Archive Compatibility**
- **Audio Recording**



The Hi-Q recorder delivers high quality, real time digital video recording even when using all four channels. Its four MPEG-2 compression engines provide crystal clear, high resolution video while optimizing hard disk space.

The Hi-Q recorder complements any existing system. Its four contact alarm inputs, motion detection, and one-touch alarm button make it ideal for event recording. With simultaneous recording, archiving, and playback, all from the front panel, the Hi-Q is the perfect spot monitor recorder to enhance an existing analog system. Imagine instantly reviewing high quality

video while the device continues recording without interruption.

The Hi-Q can record up to 48 hours of continuous, real time video on all four channels. Total recording time can be further extended and optimized by selecting the right combination of the four time-lapse modes, three quality settings, and built-in scheduler. For even more storage, the Hi-Q recorder is compatible with archiving devices.

Powerful Hi-Q features include dark and sync loss alarms, dual monitor outputs, quad and full screen display, digital PTZ, audio, sequencing, motion detection, and password security.

SPECIFICATIONS

Electrical

Model Numbers **Voltage Range** **Power (Operating)**
 DVRRT4, DVRRT4EP 110/220 VAC, 50/60 Hz 75 W

Digital Resolution:

	60 IPS (50 IPS PAL)	30 IPS (25 IPS PAL)	<30 IPS (<25 IPS PAL)
NTSC:			
High Quality	720 H x 480 V	—	720 H x 240 V
Medium Quality	—	720 H x 240 V	352 H x 240 V
Standard Quality	—	352 H x 240 V	352 H x 240 V
PAL:			
High Quality	720 H x 576 V	—	720 H x 288 V
Medium Quality	—	720 H x 288 V	352 H x 288 V
Standard Quality	—	352 H x 288 V	352 H x 288 V

On-line Storage Time: See table below.

Recording Speeds per Channel (IPS):

NTSC: 60, 30, 15, 10, 5, and 2 IPS.

PAL: 50, 25, 12/13, 9, 5, and 2 IPS.

Internal Hard Drive Capacity:

DVRRT4: 75 GB.

DVRRT4EP: 150 GB.

Video

Inputs: Four (4), looping BNC connectors (auto-terminating), 0.5 to 2.0 Vp-p, PAL/NTSC compatible.

Outputs (Mon A/B): BNC connectors, PAL/NTSC compatible, composite.

Compression: Four (4) independent MPEG-2 channels.

Audio:

Input (Mono): Screw terminal, balanced LL.

Balanced Audio Input:

4.0 Vp-p (max) / 2.8 Vp-p (typ) differential level AUDIO IN (+) to AUDIO IN (-).

Unbalanced Audio Input:

4.0 Vp-p (max) / 2.8 Vp-p (typ) unbalanced level AUDIO IN (+) to GROUND/SHIELD with AUDIO IN (-) tied to GROUND/SHIELD.

Output: Screw terminal, balanced LL.

Audio Output to Audio Input Gain: Unity Gain, typically.

Connectors:

Power: IEC male.

Console (Serial) Port: RS-232, DB-9 male.

Video Inputs/Outputs: BNC.

Audio Inputs/Outputs: Screw terminal.

Ultra SCSI: DB-50, narrow, single-ended.

Network: RJ45, ethernet 10/100BaseT compatible.

Alarm Handling:

Contact Alarms:

Alarm Inputs: Four (4) NO or NC inputs, DC.

Alarm Outputs: Four (4) NO or NC outputs; Rated at 40 VAC/DC, 1 A Max (resistive).

Other Alarms: Sync Alarm, Dark Alarm, Manual, Motion Alarm.

Motion Detector (Each Input):

Parameters: Size, speed, direction; false alarm suppression.

Supported Archiving Device:† Sony® AIT-2 Single Tape Drive.

Mechanical

Dimensions: 441.96 W x 464.8 D x 137.16 H mm (17.4 W x 18.3 D x 5.4 H in).

Weight: 10.94 kg (24.1 lb).

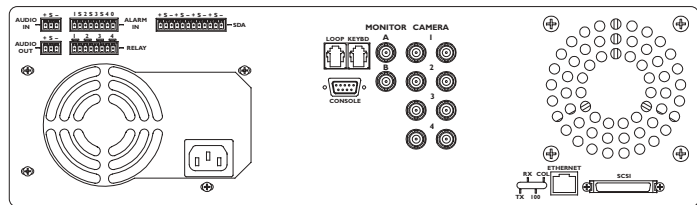
Temperature: 0° to 45°C (32° to 113°F).

Relative Humidity: 0 to 90%, noncondensing.

Electromagnetic Compatibility

EMC Requirements: CE Immunity, CE Emission Class A, FCC Class A, ICES-003.

Safety: CE, UL, cUL.



Hi-Q Recorder

RECORDING TIMES (HOURS):

	RECORD SPEED PER CHANNEL (IPS)						
	NTSC PAL	Real Time Modes			Time-lapse Modes		
		60 50	30 25	15 12	10 9	5 5	2 2
DVRRT4:							
High Quality		10	—	14	20	25	58
Medium Quality		*	12	19	29	37	80
Standard Quality		*	24	40	58	63	157
DVRRT4EP:							
High Quality		20	—	29	40	51	115
Medium Quality		*	25	38	58	74	161
Standard Quality		*	49	81	115	126	314

NOTE: This table reflects estimated recording times and assumes that all video channels are continuously recording at the given quality and record rate without audio recording.

*Interlaced video (50/60) is only available when recording at the High Quality setting.

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† Consult the Philips CSI Web site at www.philipscsi.com for an updated listing of supported devices.



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