

DVRI Series Digital Video Recorders

- Simple VCR Replacement
- Network Viewing of Live & Recorded Video
- Simultaneously Records & Archives
- CD-ROM & New! Disk Array Archiving Options
 - Disk Array Features*:
 - Up to 8 Hard Disk Drives
 - 19-inch Rackable
 - LED Status Lights for Each Drive
 - Economical
 - Field Upgradable**
- Large Storage Capacity
- Compatible with Many Manufacturers' Multiplexers
- Fast Access to High Quality Video
- Audio Recording Version
- Complete IntuiKey Keyboard/Mux Integration



Inset photo shows the DVAA Series Disk Array Archiving Device (sold separately).

Philips' DVRI Series recorders replace traditional analog time-lapse recorders in conventional CCTV systems, providing a cost-effective digital solution. These DVRI recorders are compatible with a wide range of multiplexers. The simple installation, VCR-like functions, and common recording speeds ease the transition to digital and minimize the need for training.

The benefits of digital eliminate the conventional technology associated with VCRs and tapes. This provides fast, uninterrupted video access, available locally and via a network connection. The DVRI is ideal for upgrading an existing CCTV system and for new installations.

The DVRI, Philips **System4**[®] Multiplexers, and IntuiKey Keyboard are now a completely integrated solution. This allows access to the DVRI's recorded video with a few simple keystrokes. All playback features (fast forward, pause, etc.), menus, and

search options are accessible via the security guard's preferred interface – the Keyboard.

These flexible DVRI recorders are designed to suit many applications. Each unit provides two (2) quality settings (VHS and SVHS), three (3) recording modes (manual, event, scheduled), eleven (11) recording speeds, and three (3) overwrite modes (Continuous, Write Once, and Stop).

There are four models with various recording capacities, one of which provides audio recording. The DVRI Series recorders provide large internal storage capabilities; however, if months, or even years of video storage is required, the DVAA Series Disk Array is available.

Selected events can be backed up locally to a CD-writer. Additionally, events may be stored as video clips on your PC's hard drive, using the Remote Viewer software. The Remote Viewer provides access to live, recorded, and backed up images, as well as snapshot creation and image enhancement.

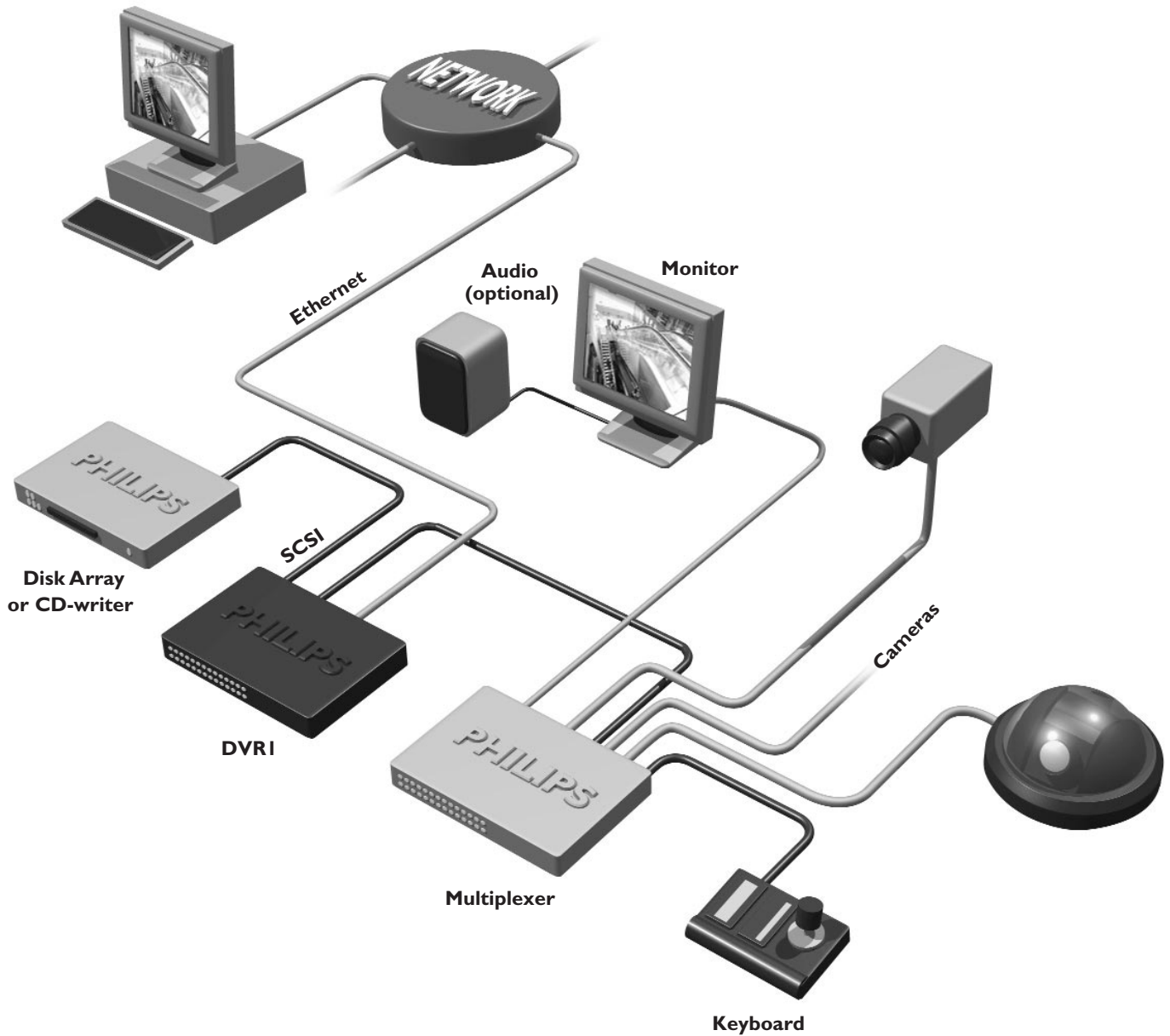
*Before restoring archive data from the disk array, the DVRI must stop recording.

**The DVRI's Remote Viewer software does not currently support the disk array. A future software upgrade will provide access to archive video via a network connection.

Image quality will not deteriorate regardless of how many times the images are viewed or re-recorded. A particular benefit is fast access to recorded events, accomplished by simply specifying the

camera, time, date, and alarm search filters. When using the viewer, an analysis tool provides graphical display of all recorded video and alarms, making it even faster to find the desired video.

The DVR1 Series incorporates all of the benefits of digital recording and eliminates the maintenance worries and costs associated with analog VCRs.



The IntuiKey Keyboard*, Philips System4 Multiplexers & DVR1 Integrated Solution**

*IntuiKey Keyboard model numbers are KBD-DIGITAL, KBD-MUX and KBD-UNIVERSAL.
 **System4 Multiplexer model numbers are LTC 2672/90 and LTC 2682/90.

SPECIFICATIONS

Electrical

Model No.	Rated Voltage	Voltage Range	Power at Min. Voltage
DVR1EP08	12VDC	120–230 VAC, 50/60 Hz	35 W nominal
DVR1EP16	12VDC	120–230 VAC, 50/60 Hz	40 W nominal
DVR1EP32	12VDC	120–230 VAC, 50/60 Hz	40 W nominal
DVR1EP32A (with audio)	12VDC	120–230 VAC, 50/60 Hz	55 W nominal

*Power adapter is included: 12 VAC, 90 V–264 V AC/DC.

Sync System: PAL & NTSC automatically detected.

Digital Resolution: 720 x 484 NTSC, 720 x 586 PAL.
Grayscale: 256 levels.

Internal Hard Drive Capacity:

DVR1EP08: 80 GB.
DVR1EP16: 160 GB.
DVR1EP32: 320 GB.
DVR1EP32A: 320 GB.

Video:

Input: 1.0 Vp-p composite, 75 ohm.
Output: 1.0 Vp-p composite, 75 ohm.
Colors: YUV 4:2:2, 16.8 million colors.
Compression: Wavelet.

Audio (DVR1EP32A Model Only):

Compression: G.711 (64 kbs).

Search Features: Camera, time/date & alarm search.

Recording Modes: Event, scheduled, manual.

Recording Speed:

NTSC: 60, 30, 20, 10, 5, 3, 2, 1, 0.5, 0.2, 0.1 IPS and alarm only.
PAL: 50, 25, 17, 10, 5, 3, 2, 1, 0.5, 0.2, 0.1 IPS and alarm only.

Connectors:

RS-232, DB-9, male.
I/O Port: DB-9, alarm input and output, record start in, alarm record reset, VEXT pulse out, error out, ground, video loss out, disk full output.
Video Inputs/Outputs: BNC, S-video (4-pin mini).
Audio Inputs/Outputs: RCA jack.
SCSI-2: 50-pin male.
Network: RJ45, 10/100BaseT compatible.

Remote Viewer Software Features:

View live or recorded video.
View archived video directly from disk array.
Store video on PC's hard drive.
Snapshots of live and recorded images.
Review and search video while recording.
Password Protection.

PC System Requirements (for Remote Viewer Software):

Windows® 95/98/2000, Windows NT® or Windows® XP operating systems.
Pentium® 166 MHz or faster.
16 MB free hard disk or more.
Monitor (SVGA) 1024 x 768, 24-bit color.

Mechanical

Dimensions: 444.5 W x 355.6 D x 44.45 H mm (17.5 W x 14 D x 1.75 H in).

Weight:

DVR1EP08: 11.46 lb (5.2 kg).
DVR1EP16, DVR1EP32 & DVR1EP32A: 13.8 lb (5.98 kg).

Temperature: Operating: 0° to 40°C (32° to 104° F).

Relative Humidity: 80%, noncondensing.

Multiplexer Compatibility'

Compatible with the Following Multiplexers:

Philips LTC 2600 Series, Philips REO (models VS7390, VS8394, VSS7390, or VSS8394), Kalatel®, Sanyo®, Dedicated Micros, Robot®, Pelco®, ATV®.

DVRI Access via IntuiKey

IntuiKey Keyboard Menu Screens: The following IntuiKey keyboard menu screens provide direct keyboard access to all DVRI features.

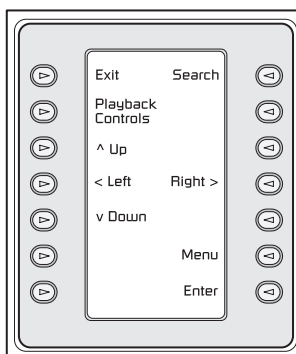
DVRI Controls Menu:

Provides the Following Functionality:
DVRI Search menu.
All DVRI menus.
Access to archive video.

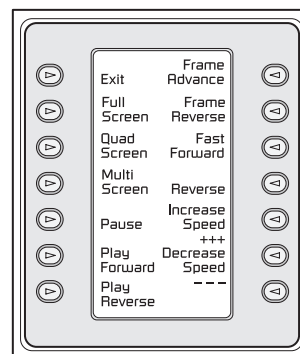
DVRI Playback Controls Menu:

Provides the Following Functionality:
Multiscreen viewing options.
All playback features.

Accessories (Included)



DVRI Controls



DVRI Playback Controls

Rack Kit

9-pin Accessory Board

Philips Approved Archiving Devices¹

CD-writer¹

Approved Model: Yamaha® CRW3200SXZ*

* SCSI cable required: 50-pin high density male to 50-pin high density male.

DVAA Series Disk Array

Models (See Storage Capacity Table below):

DVAA0412: Unit with four (4) 120 GB HDDs installed.

DVAA0812: Unit with eight (8) 120 GB HDDs installed.

Input Voltage: 110–120 VAC (60 Hz), 200–240 VAC (50 Hz).

Power: 110 VAC (60 Hz), 220 VAC (50 Hz).

Network: One (1) RJ45 connection of 10/100 Mbit ethernet^{**}.
** Reserved for future upgrade.

Weight: 28 lb.

Construction: Steel, rack-mountable, 3U.

Finish: Charcoal gray.

SCSI Ports: 50-pin, high-density, SCSI-2; SCSI cable provided.

Front Panel Indicators:

Hard Drive Status Indicators: Present, operating, failure.

Hard Drive Activity Indicator: Indicates read and write.

LCD Display: Indicates total storage capacity.

1. For the latest *Approved Archive Devices & Multiplexer Compatibility* chart, visit the **Digital Video Multiplexer/Recorders** area of our Web site at www.philipscsi.com.

DISK ARRAY STORAGE CAPACITY – HOURS (DAYS) **

	DVRI RECORD SPEED – NTSC										
	60	30	20	10	5	3	2	1	0.5	0.2	0.1
DVAA0412 (480 GB):											
VHS Quality	*	*	303 (13)	606 (25)	1212 (51)	2020 (84)	3030 (126)	6060 (253)	12121 (505)	30303 (1263)	60606 (2525)
SVHS Quality	*	*	238 (10)	476 (20)	952 (40)	1587 (66)	2381 (99)	4761 (198)	9523 (397)	23809 (992)	47619 (1984)
DVAA0812 (960 GB):											
VHS Quality	*	*	606 (25)	1212 (51)	2424 (101)	4040 (168)	6060 (253)	12121 (505)	24242 (1010)	60606 (2525)	121212 (5051)
SVHS Quality	*	*	476 (20)	952 (40)	1904 (79)	3174 (132)	4762 (198)	9523 (397)	19047 (794)	47619 (1984)	95238 (3968)
	DVRI RECORD SPEED – PAL										
	50	25	17	10	5	3	2	1	0.5	0.2	0.1
DVAA0412 (480 GB):											
VHS Quality	*	*	301 (13)	512 (21)	1025 (43)	1709 (71)	2564 (107)	5128 (214)	10256 (427)	25641 (1068)	51282 (2137)
SVHS Quality	*	*	237 (10)	404 (17)	808 (34)	1346 (56)	2020 (84)	4040 (168)	8080 (337)	20202 (842)	40404 (1684)
DVAA0812 (960 GB):											
VHS Quality	*	*	603 (25)	1025 (43)	2051 (85.47)	3418 (142)	5128 (214)	10256 (427)	20512 (855)	51282 (2137)	102564 (4274)
SVHS Quality	*	*	475 (20)	808 (34)	1616 (67)	2693 (112)	4040 (168)	8080 (337)	16161 (673)	40404 (1684)	80808 (3367)

NOTE: The DVAA is a back-up archive device. The above Storage Capacity Table represents the total storage between the DVRI and DVAA.

* Signifies that archiving is not available at this speed.

**These are estimated recording times.

Windows®, Windows NT® and Windows®XP are registered trademarks of Microsoft Corporation.

Pentium® is a registered trademark of Intel Corporation.

Kalatel® is a registered trademark of Kalatel, Inc.

Sanyo® is a registered trademark of Sanyo Electric Co., Ltd.

Pelco® is a registered trademark of Pelco.

Robot® is a registered trademark of Sensormatic Electronics Corporation.

ATV® is a registered trademark of Advanced Technology Video, Inc.

Dedicated Micros® may be a trademark of Dedicated Microcomputers, Ltd.

Yamaha® is a registered trademark of Yamaha Corporation.

9498 961 48517 02-51
Printed In U.S.A.

© 2002 Bosch Security Systems, Inc.
All Rights Reserved. Philips® is a registered trademark of Philips Electronics N.V.
Updated December 19, 2002. Data subject to change without notice. Refer to www.philipscsi.com for latest information.



PHILIPS

Let's make things better.