



BOSCH
Invented for life

DVSA Premium Series iSCSI Digital Video Storage Array



- ▶ **Preconfigured RAID 5 protection with up to 5.5 Terabytes of video storage**
- ▶ **Shared storage over Ethernet**
- ▶ **Twelve bays for hot swappable 3Gbps SATA-II hard disk drives**
- ▶ **Redundant hot swappable power supplies and high-speed network connectivity**
- ▶ **DVSA Management using Bosch RAIDWatch GUI**
- ▶ **Two Gigabit Ethernet Ports**
- ▶ **Modular design for simple service**
- ▶ **Dual speed fans to reduce system noise**
- ▶ **High density 2 HU 19" rack mount chassis**

The DVSA Premium series, Bosch Digital Video Storage Array, is built for the security industries most demanding digital video storage applications, providing high capacity, unlimited flexibility and unmatched reliability

Functions

Bosch DVSA satisfies the ever increasing demands of CCTV for video – high speed recording, high performance playback, uninterruptable reliability and massive capacities. With complete RAID 5 protection and SATA-II hard drives, it is ideally suited for when the highest level of data availability is demanded.

The “Premium” models are fully featured RAID 5 disk arrays. With the focus on non stop reliability all critical components, including the drive trays, power supply units and cooling modules, are hot-swappable within the cableless modular chassis.

Bosch DVSA “Premium” models are also designed for expansion. Two Gigabit Ethernet ports allow the connection of up to 31 Bosch video servers over standard Ethernet networks, which improves the cost-effectiveness of the RAID-based solution. The Bosch DVSA iSCSI solution is ideal for building a shared pool of storage for Bosch Video Servers.

In the event of a failure, the Bosch Digital Video Storage Array sounds an audible alarm to notify a user. The units also ensure that system managers can be constantly

updated with their status via a choice of channels, including email, fax, LAN broadcast, SNMP traps, MSN Messenger, ICQ and SMS messages depending on the infrastructure in place and user preferences.

The 4 or 12 SATA-II drive channels are routed through the backplane board to the lockable drive trays installed via the front of the Bosch DVSA. The completely cableless, backplane-based design eliminates problems associated with cable connections and offers a higher level of serviceability.

Bosch DVSA supports multiple RAID configurations, each with distinct write policy, stripe size and optimization modes. Hot rebuild and numerous fault correction mechanisms ensure the highest standard of RAID protection. Each unit has a battery backup unit (BBU) installed to prevent data loss during a power failure.

Combined with comprehensive firmware features, the Bosch Digital Video Storage Arrays ensures extreme reliability and exceptional data availability in today’s most data intensive video storage environments. A highly reliable storage solution is assured by factory burn-in procedures and extensive selection process for hard disk drives, covered by the Bosch 3 year warranty program.

Installation/Configuration Notes



DVSA Rear view.

The Bosch RAIDWatch Manager is a Java-based RAID management software that provides a user-friendly graphical interface for configuring and monitoring RAID systems. The program is specifically designed to manage Bosch DVSA.

Bosch RAIDWatch simplifies the otherwise complicated process of array configuration, giving system integrators a wide range of convenient RAID management options. The Bosch DVSA is equipped with Ethernet ports for local and remote management. The software gives system administrators fingertip control to instantly deploy, configure, manage and monitor multiple storage subsystems at local or remote locations. The “Install Once, Run Anywhere” convenience saves time and ensures continuous operation. With WAN/LAN support an operator can manage multiple Bosch DVSA from a single workstation.

Technical Specifications

Electrical

Model No.	No. of Hard Drives	Voltage Range	Operating Power*
DVA-12T-040 50RA	4 x 500GB	120/240 VAC 50/60Hz	350W (1197 BTU/hour)
DVA-12T-120 50RA	12 x 500GB	120/240 VAC 50/60Hz	350W (1197 BTU/hour)

*Power is based on the unit's maximum operating conditions.

Peak Current 6A @ 115 VAC or 3A @ 230 VAC

Accessories

Required every year (1 pre-installed in the array)

Battery backup DVA-SBBK-00A

The DVSA includes a controller board, power supply, and a specified number of hard disks. Additional accessories are optional, for redundancy, hot spare or installation. For installation into a rack, a slider rail must be used.

Item	Type #
Hard Disk assembly (500 GB)	DVA-ADTK-050A
Power supply	DVA-SPKK-08A
Fan module	DVA-SFAK-08A
iSCSI to SATA-II controller, 2 x 1GB Ethernet Host Channels, 1GB DDR RAM	DVA-SCIK-12A
Slider rail for cabinet 533mm – 724mm	DVA-ASRK-28A
Slider rail for cabinet 647mm – 900mm	DVA-ASRK-36A

Compatible Bosch Video Servers

VIP X Series Video Encoders (VIP X1/X2, VIP X1600)
Dinion IP cameras
G4 Auto Dome

Mechanical

Connectors

Power	IEC Male
RS-232 (Serial) Port	Audio Jack, for upgrade and service
Host Ports	Two (2) RJ-45 Gigabit Ethernet Host Channels

Dimensions (W x H x D) 446 x 88 x 490 mm
17.6 x 3.5 x 19.3 inches

Weight 32.5 kg, (71.6 lb) approximate

Environmental

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

Relative Humidity 5% to 95% non-condensing

Electromagnetic Compatibility (EMC)

Complies with FCC and CE Regulations

Product Safety CE, UL, CB, EN and IEC

Warranty (excl battery) 3 years

Warranty battery backup unit 1 year

Ordering Information

Model | Description

DVA-12T-04050RA
DISKARRAY PREM ISCSI 12BAY-4 HDD 2TB

DVA-12T-12050RA
DISKARRAY PREM ISCSI 12BAY-12 HDD 6TB

Accessories

DVA-ADTK-050A
DISKARRAY DVA HARDDRIVE+TRAY 500GB

DVA-SPKK-08A
DISKARRAY PSU PREMIUM 350W

DVA-SFAK-08A
DISKARRAY FAN MODULE 8+12BAY

DVA-SCIK-12A
Diskarray Controller DVA-12T

DVA-ASRK-28A
DISKARRAY 2U SLIDERRAIL 21-28.5IN

DVA-ASRK-36A
DISKARRAY 2U SLIDERRAIL 25.5-36IN

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