


**BOSCH**

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# DVSA Premium Series iSCSI Digital Video Storage Array



- ▶ **Preconfigured RAID 5 protection with up to 11 Terabytes (DVA-12T-12100RA)**
- ▶ **Shared storage over Ethernet**
- ▶ **Twelve bays for hot swappable 3Gbps SATA-II hard disk drives**
- ▶ **Redundant hot swappable power supplies**
- ▶ **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 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.

When used with the Bosch iSCSI-based applications, e.g. VRM, the DVSA Premium Series iSCSI Digital Video Storage Array provides a bandwidth up to 200 Mbit/s and 43 concurrent iSCSI sessions.

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.

**Note for ordering:**

The appropriate Diskarray cabinet slider must be ordered separately.

**Certifications and Approvals**

Region	Certification	
Europe	CE	DVA-12T

**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.

**Note:**

The DVA-12T iSCSI disk array provides a bandwidth of 200 Mbit/s and 48 concurrent iSCSI sessions. The usable net capacity is approx. 7600 GB (RAID 5 configuration without a hot spare).

**Technical Specifications**

**Electrical**

Model No.	No. of Hard Drives	Voltage Range	Operating Power*
DVA-12T-04100RA	4x 1 TB	120/240 VAC 50/60 Hz	350 W (1197 BTU/hour)
DVA-12T-12100RA	12x 1 TB	120/240 VAC 50/60 Hz	350 W (1197 BTU/hour)

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

**Peak Current** 6 A / 115 VAC or 3 A / 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 (1 TB)	DVA-ADTK-100A
Power supply	DVA-SPKK-08A
Fan module	DVA-SFAK-08A
iSCSI to SATA-II controller, 2x 1GB Ethernet Host Channels, 1GB DDR RAM	DVA-SCIK-12A
Slider rail for cabinet 533 mm –724 mm	DVA-ASRK-28A
Slider rail for cabinet 647 mm –900 mm	DVA-ASRK-36A

**Compatible Bosch Video Servers**

VIP X Series Video Encoders

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 (WxHxD)** 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 back-up unit	1 year

**Ordering Information**

<b>DVA-12T-04100RA iSCSI Diskarray 12-bay</b> 4 HDD, 4 TB	<b>DVA-12T-04100RA</b>
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<b>DVA-12T-12100RA iSCSI Diskarray 12-bay</b> 12 HDD, 12 TB	<b>DVA-12T-12100RA</b>
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**Accessories**

<b>DVA-ADTK-100A Diskarray HDD expansion, 1 TB</b>	<b>DVA-ADTK-100A</b>
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<b>DVA-SPKK-08A PSU</b> for 8-bay Premium Diskarray, 350 W	<b>DVA-SPKK-08A</b>
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<b>DVA-SFAK-08A Diskarray Fan Module</b> for 8- and 12-bay	<b>DVA-SFAK-08A</b>
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<b>DVA-SCIK-12A iSCSI Diskarray Controller</b>	<b>DVA-SCIK-12A</b>
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<b>DVA-ASRK-28A Diskarray Cabinet Slider</b> for DVA-08 and DVA-12, 533 mm - 724 mm/ 21 in. - 28.5 in.	<b>DVA-ASRK-28A</b>
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<b>DVA-ASRK-36A Diskarray Cabinet Slider</b> for DVA-08 and DVA-12, 647 mm - 914 mm/ 25.5 in. - 36 in.	<b>DVA-ASRK-36A</b>
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