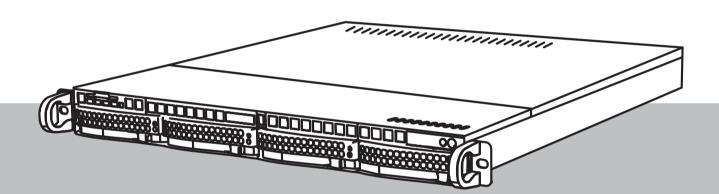


# **DIVAR IP all-in-one 6000**

DIP-6440IG-00N | DIP-6444IG-4HD | DIP-6448IG-4HD | DIP-644IIG-4HD



Installation manual

en

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Installation manual

DIVAR IP all-in-one 6000 Safety | en

## 1 Safety

Read, follow, and retain for future reference all of the following safety instructions.

## 1.1 Safety message explanation



## Warning!

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



### Caution!

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



## Notice!

Indicates a situation which, if not avoided, could result in damage to the equipment, to the environment, or to data loss.

## 1.2 Installation precautions



## Notice!

Installation must only be carried out by authorized specialist personnel.



## Notice!

The installation of this product must comply with all requirements of the applicable local code.



#### Notice!

Install this product only in a dry, weather-protected location.



#### Notice!

Do not install the device near any heat sources, such as radiators, heaters, stoves, or other equipment which produces heat.



## Notice!

Install this product according to the instructions of the manufacturer.



## Notice!

Accessories

Use only accessories recommended by the manufacturer. Do not use accessories that are not recommended by the manufacturer, as they may cause hazards.

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#### Notice!

If you install this device in an enclosure, make sure that the enclosure is adequately ventilated according to the manufacturer's instructions.



### Caution!

Installation precaution

Do not place this device on an unstable stand, tripod, bracket, or mount. The device may fall, causing serious injury to persons and damage to the device. Mount the device according to the instructions of the manufacturer.

## 1.3 Electrical safety precautions



## Warning!

Fire or electrical shock

Do not expose this device to rain or moisture to reduce the risk of fire or electrical shock.



### Warning!

Power cable and AC adapter:

When installing the product, use the provided or designated connection cables, power cables and AC adaptors. Using any other cables and adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL or CSA-certified cables (that have UL/CSA shown on the code) for any other electrical devices.



### Warning!

This product relies on the building's installation for short-circuit (overcurrent) protection. Make sure that the protective device is rated not greater than: 250 V, 20 A.



### Notice!

Safety Extra Low Voltage (SELV) circuits

All the input/output ports are SELV circuits. Connect SELV circuits only to other SELV circuits.



### Notice!

Power supplies

Operate the product only from the type of power source indicated on the label. Use only the provided power supply or UL approved power supplies. Use a power supply according to LPS or NEC Class 2.



#### Warning!

Make sure that the power supply cord includes a grounding plug and is plugged into a grounded electrical outlet.



## Notice!

Protect connection cables

Protect all connection cables from possible damage, especially at connection points.

DIVAR IP all-in-one 6000 Safety | en



#### Notice!

Permanently connected devices must have an external, readily operable mains plug or all-pole mains switch in accordance with installation rules.



#### Notice!

Pluggable devices must have an easily accessible electrical outlet installed near the equipment.



### Warning!

Interruption of mains supply:

Voltage is applied as soon as the mains plug is inserted into the mains socket. However, for devices with a mains switch, the device is only ready for operation when the mains switch (ON/OFF) is in the ON position. When the mains plug is pulled out of the socket, the supply of power to the device is completely interrupted.



## Warning!

Do not put any objects in the openings of this product. The objects may touch dangerous voltage points or short-circuit components, which could result in a fire or electrical shock.



#### Caution!

Power supply cords

Make sure to route the power supply cords in a way so that they are protected from any possible damage.



## Warning!

To prevent electrical shock hazard, disconnect all power cables from the electrical outlet before relocating the system.



### Caution!

Disconnect power cables before installing or removing any components from the device.



## Notice!

When disconnecting power, first turn off the system and then unplug the power cord from the power supply module in the system.



### Notice!

Be aware of the locations of the power on/off switch on the device as well as the room's emergency power-off switch, disconnection switch or electrical outlet. If an electrical accident occurs, you can then quickly remove power from the system.

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### Warning!

Use only one hand when working with powered-on electrical equipment. This is to avoid making a complete circuit, which will cause electrical shock.

Use extreme caution when using metal tools, which can easily damage any electrical components or circuit boards they come into contact with.

## 1.4 ESD precautions



#### Notice!

Electrostatically sensitive device

Electrostatic Discharge (ESD) can damage electronic components. To avoid electrostatic discharges, use proper CMOS/MOSFET protection measures.

- Do not use mats designed to decrease electrostatic discharge as protection from electrical shock. Instead, use rubber mats that have been specifically designed as electrical insulators.
- Use a grounded wrist strap designed to prevent static discharge.

## 1.5 Operating precautions



## Notice!

Intended use

This product is for professional use only. It is not intended to be installed in a public area that is accessible to the general population.



#### Notice!

Do not use this product in any humid or wet location.



## Notice!

Take precautions to protect the device from power and lightning surges.



#### Notice!

Keep the area around the device clean and free of clutter.



## Notice!

Enclosure openings

Do not block or cover the openings. Any openings in the enclosure are provided for ventilation purposes. These openings will prevent overheating and ensure a reliable operation.



#### Notice!

Do not open or remove the device cover. Opening or removing the cover may cause damage to the system and will void the warranty.

DIVAR IP all-in-one 6000 Safety | en



#### Notice!

Do not spill any liquid on the device.



### Warning!

Use caution when servicing and working around the backplane. Hazardous voltage or energy is present on the backplane when the system is operating. Do not touch the backplane with any metal objects and make sure no ribbon cables touch the backplane.



#### Notice!

Disconnect the power before moving the product. Move the product with care. Excessive force or shock may damage the product and the hard disk drives.



#### Warning!

Handling of lead solder materials used in this product may expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm.



#### Notice!

Video loss is inherent to digital video recording; therefore, Bosch Security Systems cannot be held liable for any damage that results from missing video information.

To minimize the risk of losing information, we recommend multiple, redundant recording systems, and a procedure to back up all analog and digital information.

## 1.6

## Service and maintenance precautions



## Notice!

Do not attempt to service this product. Refer all servicing to qualified service personnel.



## Notice!

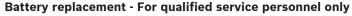
Damaged device

Whenever your device is damaged, disconnect the power supply, and contact your qualified service personnel.

- If safe operation of the device cannot be ensured, remove it from service and secure it to prevent unauthorized operation. In such cases, contact the Bosch technical support.
- Disconnect power supply and arrange for the device to be serviced by qualified personnel in the following cases, because safe operation is no longer possible:
  - The power cable/plug is damaged.
  - Liquids or foreign bodies have entered the device.
  - The device has been exposed to water or extreme environmental conditions.
  - The device is faulty despite correct installation/operation.
  - The device has fallen from a height, or the housing has been damaged.
  - The device was stored over a long period under adverse conditions.
  - The device performance is noticeably changed.

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### Warning!





A lithium battery is located inside the unit enclosure. To avoid danger of explosion, replace the battery as per instructions. Replace only with the same or equivalent type recommended by the manufacturer.

Handle used batteries carefully. Do not damage the battery in any way. A damaged battery may release hazardous materials into the environment.

Dispose of the replaced battery in an environmentally friendly way and not with other solid waste. Follow the local directives.



#### Warning!

Replacement parts specified by the manufacturer

Use replacement parts specified by the manufacturer. Unauthorized replacements could void the warranty and cause fire, electrical shock, or other hazards.



#### Notice!

Perform safety inspections after service or repairs to the device to make sure the device operates properly.

## 1.6.1 Cleaning



## Notice!

Unplug the device from the power source before cleaning. Follow the instructions provided with the device.



### Notice!

Do not use liquid cleaners or aerosol cleaners. Clean only with a dry cloth.

## 1.7 Cybersecurity precautions

For cybersecurity reasons, observe the following:

- Make sure that the physical access to the system is restricted to authorized personnel only. Place the system in an access control protected area, in order to avoid physical manipulation.
- The operating system includes the latest Windows security patches available at the time
  the software image was created. Use the Windows online update functionality or the
  corresponding monthly roll-up patches for offline installation to regularly install OS
  security updates.
- Do not switch off Windows Defender and Windows firewall, and always keep it up to date.
- Do not install additional anti-virus software.
- Do not provide system information and sensitive data to persons you do not know unless you are certain of a person's authority.
- Do not send sensitive information over the internet before checking a website's security.
- Limit local network access to trusted devices only. Details are described in the following documents which are available in the online product catalog:
  - Network Authentication 802.1X
  - Cybersecurity guidebook for Bosch IP video products

DIVAR IP all-in-one 6000 Safety | en 11

 For access through public networks use only the secure (encrypted) communication channels

The administrator account provides full administrative privileges and unrestricted access to the system. Administrative rights enable users to install, update, or remove software, and to change configuration settings. Furthermore, administrative rights enable users to directly access and change registry keys and with this to bypass central management and security settings. Users signed in to the administrator account can traverse firewalls and remove anti-virus software, which will expose the system to viruses and cyber-attacks. This can pose a serious risk to the system and data security.

To minimize cybersecurity risks, observe the following:

- Make sure that the administrator account is protected with a complex password according to the password policy.
- Make sure that only limited number of trusted users has access to the administrator account.
- Due to operation requirements, the system drive must not be encrypted. Without
  encryption, the data stored on this drive can be easily accessed and removed. To avoid
  data theft or accidental loss of data, make sure that only authorized persons have access
  to the system and to the administrator account.
- For installation and update of software as well as for system recovery, it might be
  necessary to use USB devices. Therefore, the USB ports of your system must not be
  disabled. However, connecting USB devices to the system poses a risk of malware
  infection. To avoid malware attacks, make sure that no infected USB devices are
  connected to the system.

## 1.8 FCC compliance



### Notice!

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

## 1.9 Software precautions

## 1.9.1 Use latest software

Before operating the device for the first time, make sure that you install the latest applicable release of your software version. For consistent functionality, compatibility, performance, and security, regularly update the software throughout the operational life of the device. Follow the instructions in the product documentation regarding software updates.

The following links provide more information:

- General information: https://www.boschsecurity.com/xc/en/support/product-security/
- Security advisories, that is a list of identified vulnerabilities and proposed solutions:
   https://www.boschsecurity.com/xc/en/support/product-security/security-advisories.html

Bosch assumes no liability whatsoever for any damage caused by operating its products with outdated software components.

You can find the latest software and available upgrade packages in the Bosch Security and Safety Systems download store under:

https://downloadstore.boschsecurity.com/

## 1.9.2 OSS information

Bosch uses Open Source Software in the DIVAR IP all-in-one products.

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You can find the licenses of the used Open Source Software components on the system drive under:

C:\license txt\

The licenses of Open Source Software components used in any further software installed on your system, are stored in the installation folder of the respective software, for example under:

C:\Program Files\Bosch\SysMgmService\apps\sysmgmcommander\[version]\License
or under:

C:\Program Files\Bosch\SysMgmService\apps\sysmgm-executor\[version]\License

DIVAR IP all-in-one 6000 Introduction | en 13

## 2 Introduction

This manual is written for professional system integrators and PC technicians. It provides information for the installation of DIVAR IP all-in-one 6000. The installation should be done by experienced and qualified technicians only.

Before you start the installation, read and follow the safety instructions.

## 2.1 Parts included

Make sure that all parts are included and not damaged. If the packaging or any parts are damaged, contact your shipper. If any parts are missing, contact your Sales or Customer Service Representative.

## **DIP-6440IG-00N**

Quantity	Component
1	DIVAR IP all-in-one 6000
1	Rack mount kit (including two outer rails, two inner rail extensions and a bag with screws)
1	Installation manual (English)
1	Registration leaflet
2	Power cord EU
2	Power cord US
5	Labels for hard drive trays (numbered 0-4)
18	Hard drive screws

## DIP-6444IG-4HD, DIP-6448IG-4HD, DIP-644IIG-4HD

Quantity	Component
1	DIVAR IP all-in-one 6000
1	Rack mount kit (including two outer rails, two inner rail extensions and a bag with screws)
1	Installation manual (English)
1	Registration leaflet
2	Power cord EU
2	Power cord US
5	Labels for hard drive trays (numbered 0-4)

## 2.2 Product registration

Register your product under:

https://www.boschsecurity.com/product-registration/

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DIVAR IP all-in-one 6000 System overview | en 15

## 3 System overview

DIVAR IP all-in-one 6000 is an easy to use all-in-one recording, viewing, and management solution for network surveillance systems.

Running the full BVMS solution and powered by Bosch Video Recording Manager (VRM) including the Bosch Video Streaming Gateway (VSG) to integrate 3rd party cameras, DIVAR IP all-in-one 6000 is an intelligent IP storage device that eliminates the need for separate Network Video Recorder (NVR) server and storage hardware.

BVMS manages all IP and digital video and audio, plus all the security data being transmitted across your IP network. It seamlessly combines IP cameras and encoders, provides systemwide event and alarm management, system health monitoring, user and priority management. DIVAR IP all-in-one 6000 is based on the operating system Microsoft Windows Server IoT 2022 for Storage Workgroup.

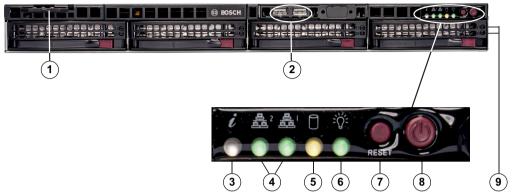
DIVAR IP System Manager is the central user interface that offers an easy system setup, configuration and software upgrade.

## **Device components**

Component	Description	
Hard drives	The device has four hard drive bays for SATA hard drives.  The hard drives are hot swappable. Once setup correctly, the drives can be removed without turning off the system.  Note: For empty units, the hard drives must be purchased separately. For the latest shipping lists, see the datasheet in the online product catalog	
Power supply	The device has a 350 W power supply.	
Mounting rails	The device is delivered with pre-installed inner rails. The inner rails do not interfere with normal use of the device if you decide not to install it in a rack.  To install the device in a rack, you need the inner rail extensions and the outer rails that are included in the rack mount kit. For a rack installation, follow the installation instructions in this manual.	
Control panel	The control panel is located on the front and has power buttons and status monitoring LEDs.	
I/O ports	On the rear, there are various I/O ports to connect the device to the network and to other devices.	

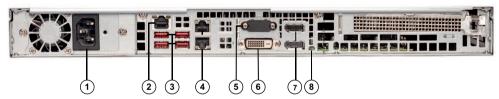
## 3.1 Device views

## Front view



1	Information tag with device identification data	2	2 USB 2.0 ports (Type A)
3	Information LED	4	NIC1 and NIC2 LEDs
5	HDD LED (not used)	6	Power LED
7	Reset button	8	Power button
9	Hard drive carrier LEDs		

## **Rear view**



1	Mains connection	2	IPMI port
3	4 USB ports 3.2 (Type A)	4	2 LAN ports (RJ45), teamed  Note: Do not change the teaming mode!
5	VGA display output (disabled)	6	DVI-D port
7	2 DisplayPort ports	8	UID LED

## 3.2 Control panel elements

The control panel located on the front of the device has power buttons and status monitoring LEDs.

DIVAR IP all-in-one 6000 System overview | en 17

## **Control panel buttons**

Button	Description
Power	The power button is used to apply or remove power from the power supply to the system.  Note: Turning off system power with this button removes the main power, but keeps standby power supplied to the system.  To remove all power, unplug the system before performing maintenance tasks.
Reset	The reset button is used to reboot the system.

## **Control panel LEDs**

LED	LED state	Description
0	This LED indica	ates the system status.
Information	Solid red	An overheat condition has occurred. (This may be caused by cable congestion.)
	Blinking red (1 Hz)	Fan failure: check for an inoperative fan.
	Blinking blue (300 msec)	Remote UID is on. Use this indication to locate the unit from a remote location through IPMI interface.
NIC2	Green flashing	This LED indicates network activity when flashing.
NIC1	Green flashing	This LED indicates network activity when flashing.
HDD	Not used	
Power	Solid green	This LED indicates that power is supplied to the system's power supply unit.  This LED is illuminated when the system is operating

## 3.3 Hard drive tray LEDs

The device supports hot-swappable SATA hard drives in hard drive trays. Each hard drive tray has two LEDs on the front of the tray.

LED	LED state	Description
Upper hard drive tray LED	Green flashing	Indicates HDD activity.
Lower hard drive tray LED	Solid red	Indicates HDD failure.
	Red flashing (1 Hz)	Indicates HDD re-build and hot spare.
	Red flashing (4 Hz)	Identify the HDD from a remote location through IPMI.

## 3.4 LAN, IPMI and UID LEDs

On the rear of the device, there are two LAN ports, one IPMI port and one UID LED. Each LAN port as well as the IPMI port has two LEDs.

LED	LED state	Description
LAN 1/LAN 2 LED on the right	Amber flashing	Indicates LAN activity.
LAN 1/LAN 2	Solid green	Indicates a bandwidth of 100 Mbps.
LED on the left	Solid amber	Indicates a bandwidth of 1 Gbps.
	Off	Indicates a bandwidth of 10 Mbps.
IPMI LED on the right	Amber flashing	Indicates activity.
IPMI LED on	Solid green	Indicates a bandwidth of 100 Mbps.
the left	Solid amber	Indicates a bandwidth of 1 Gbps.
UID LED	Blinking blue (300 msec)	Remote UID is on. Use this indication to locate the unit from a remote location through IPMI interface.

#### **Preparing for installation** 4

Read this section in its entirety before you begin the installation.

#### 4.1 Choosing the installation location

- Place the system near at least one grounded power outlet.
- Place the system in a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise and electromagnetic fields are generated.
- Leave approximately 25 inches (63.5 cm) clearance in front of the rack to be able to open the front door completely.
- Leave approximately 30 inches (70.2 cm) of clearance in the back of the rack to allow for sufficient airflow and ease in servicing.



#### Notice!

This equipment is intended for installation in Restricted Access Location or equivalent.



### Notice!

This product is not suitable for use with visual display work place devices according to §2 of the German Ordinance for Work with Visual Display Units.

#### 4.2 Rack precautions



## Warning!

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.
- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- In single rack installations, attach stabilizers to the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.
- In multiple rack installations, couple the racks together.
- Always make sure the rack is stable before extending a component from the rack.
- Extend only one component at a time extending two or more simultaneously may cause the rack to become unstable.

#### 4.3 **General system precautions**

- Review the electrical and general safety precautions that came with the components you are adding to your chassis.
- Determine the placement of each component in the rack before installing the rails.
- Install the heaviest components on the bottom of the rack first, and then work up.
- Use a regulating uninterruptible power supply (UPS) to protect the system from power surges and voltage spikes if you want to keep your system operating in case of a power failure.
- Allow the hard drives and power supply modules to cool before touching them.

Always keep the rack's front door and all panels and components on the system closed when not servicing to maintain proper cooling.

#### 4.4 Installation considerations

## Ambient operating temperature

If installed in a closed or multi-unit rack assembly, the ambient operating temperature of the rack environment may be greater than the ambient temperature of the room. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (Tmra).

#### Reduced airflow

Equipment should be mounted into a rack so that the amount of airflow required for safe operation is not compromised.

### Mechanical loading

Equipment should be mounted into a rack so that a hazardous condition does not arise due to uneven mechanical loading.

### Circuit overloading

Consideration should be given to the connection of the equipment to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

## Reliable ground

A reliable ground must be maintained at all times. To ensure this, the rack itself should be grounded. Particular attention should be given to power supply connections other than the direct connections to the branch circuit (i.e. the use of power strips, etc.).

DIVAR IP all-in-one 6000 Rack installation | en 21

#### **Rack installation** 5

This chapter describes the installation of DIVAR IP all-in-one 6000 in a rack.

You can also watch a video showing the rack installation. To get to the video, scan the following QR code:



#### Applicable racks

There is a variety of racks on the market, so that the installation procedure slightly differs depending on the rack type.

The rack mount kit is adaptable for installation in following rack types:

- Square-hole rack
- Round-hole rack
- Round-hole threaded rack

The delivered rails fit a rack with a depth of 25.6 inches (65.02 cm) to 33.5 inches (85.09 cm).



#### Notice!

For more information, refer to the documentation of the rack that you use.

## **Prerequisites**

To install DIVAR IP all-in-one 6000 in a rack, you need:

- The rack mount kit delivered with the device. The rack mount kit includes:
  - Two outer rails (each outer rail consists of two sections, a long section and a short
  - Two inner rail extensions (in accessory box).
  - A bag of screws (in accessory box).
- A standard Phillips screwdriver.

### **Procedure**

To install DIVAR IP all-in-one 6000 in a rack, you must do the following:

- Installing the inner rail extensions on the chassis, page 21.
- 2. Installing the outer rails to the rack, page 22.
- Installing the chassis in the rack, page 26.

#### 5.1 Installing the inner rail extensions on the chassis



## Caution!

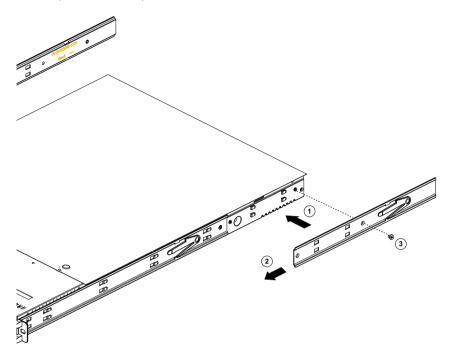
Do not pick up the chassis with the front handles. They are designed to pull the system from a rack only.

To install the inner rail extensions:

- Place the inner rail extension on the side of the chassis so that it faces "outward" just like the pre-installed inner rail.
- 2. Align the holes on the inner rail extension with the hooks on the chassis.
- 3 Slide the inner rail extension toward the front of the chassis.
- Optionally: secure the inner rail with one M4 x 6L screw (delivered in the accessory box). 4.

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5. Repeat these steps for the other inner rail extension.



## 5.2 Installing the outer rails to the rack

Each outer rail consists of two sections, a long section and a short section. Both sections are delivered separate and must be assembled, before installing the outer rail to the rack. The long section is to be placed at the front of the rack and the short section at the rear of the

You can adjust the distance between the two sections, so that the outer rail fits into different sizes of racks.

The design of both outer rails is symmetric to allow an installation without left/right restriction.

The outer rails come with a mounting bracket pre-installed on both ends of the outer rail. The mounting bracket allows for installation in square-hole racks without using any tools.

Depending on the type of the rack, the installation procedure slightly differs.

### Refer to

rack.

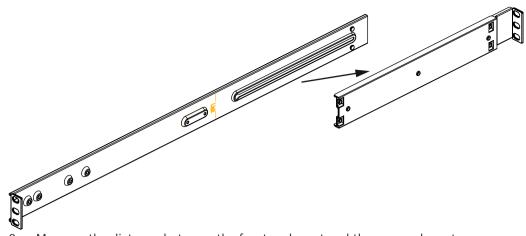
- Installing the outer rails in a square-hole rack, page 23
- Installing the outer rails in a round-hole threaded rack, page 24
- Installing the outer rails in a round-hole rack, page 25

## 5.2.1 Preparing the outer rails for installation to the rack

To prepare the outer rails for installation to the rack:

1. Slide the long section of the outer rail into the short section.

DIVAR IP all-in-one 6000 Rack installation | en 23



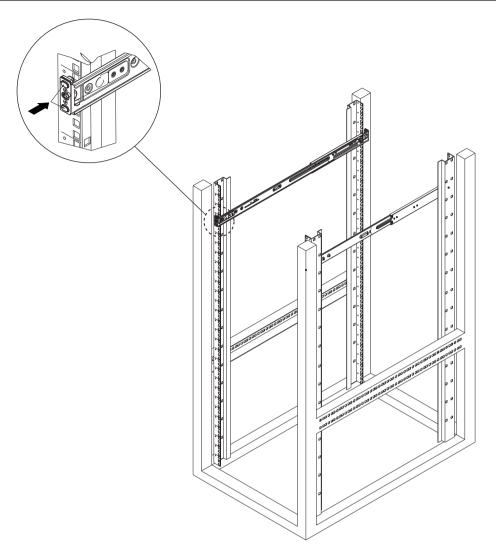
- 2. Measure the distance between the front rack post and the rear rack post.
- 3. Adjust the distance between the long section and the short section of the outer rail, so that it matches the distance between the front and the rear rack post.

## 5.2.2 Installing the outer rails in a square-hole rack

To install the outer rails in a square-hole rack:

- 1. Determine the position in the rack where you want to install the chassis.
- 2. Place the outer rail at the desired position inside the rack posts with the long section of the outer rail toward the front rack post and the short section toward the rear rack post.
- 3. Align the mounting bracket pins at both ends of the outer rail with the holes in the rack posts.
- 4. Push the mounting bracket pins at both ends of the outer rail into the holes in the rack posts until the latches snap into the locked position.
- 5. Repeat these steps for the other outer rail.

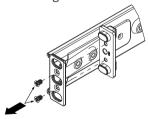
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## 5.2.3 Installing the outer rails in a round-hole threaded rack

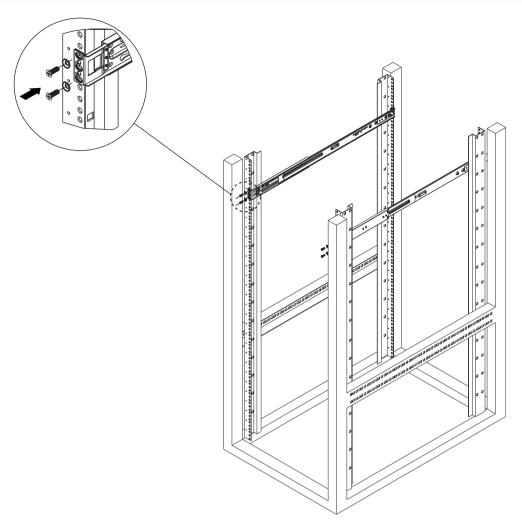
To install the outer rails in a round-hole threaded rack:

1. Remove the screws, which secure the mounting brackets to the outer rail and remove the mounting brackets at both ends of the outer rail.



- 2. Determine the position in the rack where you want to install the chassis.
- Place the outer rail at the desired position inside the rack posts with the long section of the outer rail toward the front rack post and the short section toward the rear rack post.
- 4. Align the holes on both ends of the outer rail with the holes in the rack posts.
- 5. Use proper screws to secure the outer rail to the rack posts.
- 6. Repeat these steps for the other outer rail.

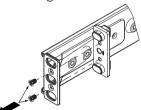
DIVAR IP all-in-one 6000 Rack installation | en 25



## 5.2.4 Installing the outer rails in a round-hole rack

To install the outer rails in a round-hole rack:

1. Remove the screws, which secure the mounting brackets to the outer rail and remove the mounting brackets at both ends of the outer rail.



- 2. Determine the position in the rack where you want to install the chassis.
- 3. Place the outer rail at the desired position inside the rack posts with the long section of the outer rail toward the front rack post and the short section toward the rear rack post.
- 4. Align the holes on both ends of the outer rail with the holes in the rack posts.
- 5. Use cage nuts and proper screws to secure the outer rail to the rack posts.
- 6. Repeat these steps for the other outer rail.

## 5.3

## Installing the chassis in the rack



## Warning!

Stability hazard

Before sliding the unit out for servicing make sure that the rack stabilizing mechanism is in place, or the rack is bolted to the floor. Failure to stabilize the rack can cause the rack to tip over.



### Warning!

Do not pick up the unit with the front handles. The handles are designed to pull the system from a rack only.



### Notice!

Mounting the chassis into the rack requires at least two people to support the chassis during installation. Please follow safety recommendations printed on the rails.



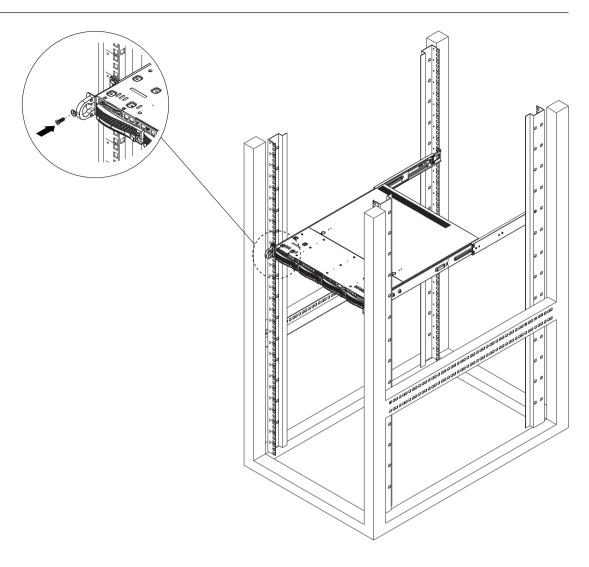
## Notice!

Always install chassis into racks from the bottom up.

To install the chassis in the rack:

- 1. Align the inner rails of the chassis with the outer rails on the rack.
- 2. Slide the inner rails into the outer rails, keeping the pressure even on both sides.
- 3. Push the chassis completely into the rack and make sure that it clicks into the locked position.
- 4. Secure the front of the chassis to the rack with two M5 x 15L screws and two washers (delivered in the accessory box).

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## 6 Installing a SATA hard drive

DIVAR IP all-in-one 6000 has four hot-swappable SATA hard drives, which can be removed without turning off the system.

The hard drives are mounted in hard drive trays to simplify their installation and removal from the chassis. The hard drive trays also help promote proper airflow for the hard drive bays.

### Notice!

Bosch strongly recommends to use hard drives approved and supplied by Bosch. The hard drives as one of the critical component are carefully selected by Bosch based on available failure rates.



Bosch is not liable for any data loss or damages, or system failures of units equipped with hard drives that are not supplied by Bosch.

Bosch cannot provide support if non-Bosch-supplied hard drives are considered to be the cause of the problem. To troubleshoot potential hardware issues, Bosch will require Bosch-supplied hard drives to be installed.

For more information about Bosch-supplied hard drives, see the datasheet in the Bosch online product catalog under:

www.boschsecurity.com



#### Notice!

Review the warnings and precautions listed in this manual before performing works on the chassis.

#### **Procedure**

The installation procedure for Bosch-supplied hard drives and non-Bosch-supplied hard drives differs.

## Refer to

- Installing a Bosch-supplied hard drive, page 28
- Installing a non-Bosch-supplied hard drive, page 30

## 6.1 Installing a Bosch-supplied hard drive



### Notice!

Hard drives supplied by Bosch come already pre-installed in a hard drive tray.

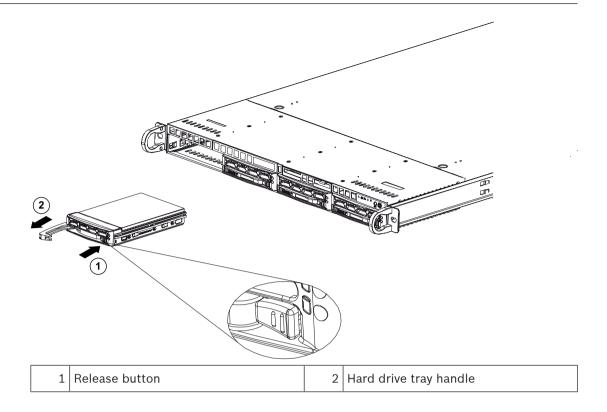
To install a Bosch-supplied hard drive, you must do the following:

- 1. Removing a hard drive tray from a hard drive bay, page 28.
- 2. Installing a hard drive tray into a hard drive bay, page 29.

### Removing a hard drive tray from a hard drive bay

To remove a hard drive tray from a hard drive bay:

- 1. Press the release button to the right of the hard drive tray. This extends the hard drive tray handle.
- 2. Use the handle to pull the hard drive tray out of the chassis.





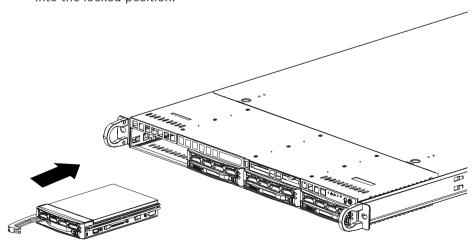
## Notice!

Except for short periods of time (swapping hard drives), do not operate the unit with the hard drives removed from the bays.

## Installing a hard drive tray into a hard drive bay

To install a hard drive tray into a hard drive bay:

- 1. Insert the hard drive tray horizontally into the hard drive bay, orienting the hard drive tray so that the release button is on the right.
- 2. Push the hard drive tray into the bay until the handle retracts and the hard drive clicks into the locked position.



## 6.2 Installing a non-Bosch-supplied hard drive

## Notice!

Bosch strongly recommends to use hard drives approved and supplied by Bosch. The hard drives as one of the critical component are carefully selected by Bosch based on available failure rates.



Bosch is not liable for any data loss or damages, or system failures of units equipped with hard drives that are not supplied by Bosch.

Bosch cannot provide support if non-Bosch-supplied hard drives are considered to be the cause of the problem. To troubleshoot potential hardware issues, Bosch will require Bosch-supplied hard drives to be installed.

For more information about Bosch-supplied hard drives, see the datasheet in the Bosch online product catalog under:

www.boschsecurity.com

### **Procedure**

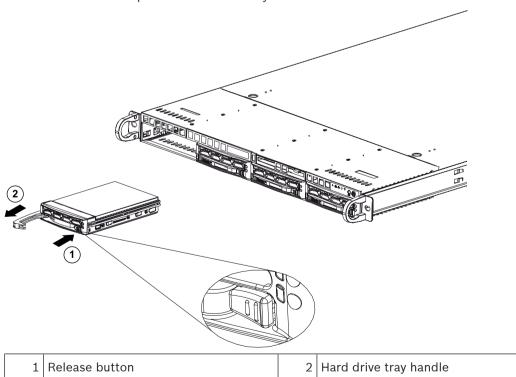
To install a non-Bosch-supplied hard drive, you must do the following:

- 1. Removing a hard drive tray from a hard drive bay, page 28.
- 2. Installing a hard drive into a hard drive tray, page 31.
- 3. Installing a hard drive tray into a hard drive bay, page 29.

## Removing a hard drive tray from a hard drive bay

To remove a hard drive tray from a hard drive bay:

- 1. Press the release button to the right of the hard drive tray. This extends the hard drive tray handle.
- 2. Use the handle to pull the hard drive tray out of the chassis.





### Notice!

Except for short periods of time (swapping hard drives), do not operate the unit with the hard drives removed from the bays.

## Installing a hard drive into a hard drive tray

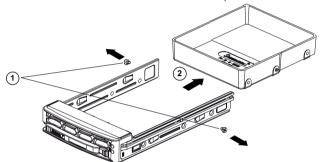


#### Notice!

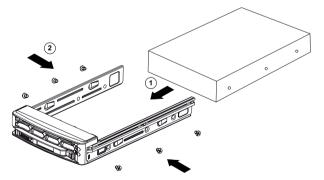
This description applies only to DIP-6440IG-00N units.

To install a hard drive into a hard drive tray:

Remove the screws which secure the plastic bracket to the hard drive tray.



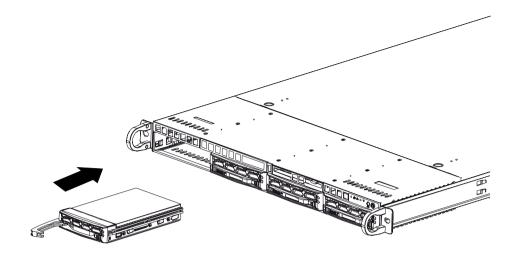
- Remove the plastic bracket from the hard drive tray and place the hard drive tray on a flat surface.
- 3. Slide a new hard drive into the hard drive tray with the printed circuit board side facing
- 4. Align the mounting holes in both, the hard drive tray and the hard drive.
- Secure the hard drive to the hard drive tray with six screws (additional screws are delivered with the unit).



## Installing a hard drive tray into a hard drive bay

To install a hard drive tray into a hard drive bay:

- 1. Insert the hard drive tray horizontally into the hard drive bay, orienting the hard drive tray so that the release button is on the right.
- 2. Push the hard drive tray into the bay until the handle retracts and the hard drive clicks into the locked position.



DIVAR IP all-in-one 6000 Turning on the unit | en 33

# 7 Turning on the unit



## Notice!

**Enclosure openings** 

Before you turn on the unit, remove the protective film from the top of the unit so that it does not block any enclosure openings.

To turn on the unit:

- 1. Plug the power cord from the power supply unit into a high-quality power strip that offers protection from electrical noise and power surges.
  - Bosch recommends to use an uninterruptible power supply (UPS).
- 2. Push the power button on the control panel to turn on the unit.

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## 8 System setup

The Microsoft Windows Server IoT 2022 for Storage Workgroup operating system provides a user interface for initial server configuration, unified storage appliance management, simplified setup and storage management, and support for Microsoft iSCSI Software Target. It is specially tuned to provide optimal performance for network-attached storage. The Microsoft Windows Server IoT 2022 for Storage Workgroup operating system provides significant enhancements in storage management scenarios, as well as integration of storage appliance management components and functionality.

DIVAR IP System Manager application is the central user interface that offers an easy system setup, configuration and software upgrade.



### Notice!

The following description is valid for DIVAR IP all-in-one units that come with pre-installed hard drives.

If you have installed hard drives to an empty unit, you first must configure them before performing the initial setup.

#### Refer to

- Configuring new hard drives, page 38

## 8.1 Default settings

All DIVAR IP systems are preconfigured with a default IP address and with default iSCSI settings:

- IP Address: automatically assigned by DHCP (fallback IP address: 192.168.0.200).
- Subnet mask: automatically assigned by DHCP (fallback subnet mask: 255.255.255.0).

## Default user settings for administrator account

- User name: BVRAdmin
- Password: to be set at first sign-in.

Password requirements:

- Minimum 14 characters.
- At least one upper case letter.
- At least one lower case letter.
- At least one digit.

## 8.2 Prerequisites

Observe the following:

- DIVAR IP needs to have an active network link during installation. Make sure that the network switch you are connecting to is powered on.
- The default IP address must not be occupied by any other device in the network. Make sure that the default IP addresses of existing DIVAR IP systems in the network are changed before adding another DIVAR IP.

## 8.3 Operation modes

DIVAR IP all-in-one systems can operate in three different modes:

- Full video recording and management system, utilizing the BVMS and VRM core components and services: This mode allows for advanced video management features such as event and alarm handling.
- Pure video recording system, utilizing the VRM core components and services.
- iSCSI storage expansion for a BVMS or VRM system, which runs on a different hardware.

DIVAR IP all-in-one 6000 System setup | en 35



#### Notice!

Recorded video streams need to be configured in a way that the maximum bandwidth of the system (BVMS/VRM base system plus iSCSI storage expansions) is not exceeded.

## 8.4 First sign-in and initial system setup



## Notice!

Do not change any operating system settings. Changing operating system settings can result in malfunctioning of the system.



#### Notice!

To perform administrative tasks, you must sign in to the administrator account.



#### Notice!

In case of password loss a system recovery must be performed as described in the installation manual. The configuration must be done from scratch or must be imported.

To setup the system:

- 1. Connect the DIVAR IP all-in-one unit and the cameras to the network.
- 2. Turn on the unit.
  - Setup routines for Microsoft Windows Server IoT 2022 for Storage Workgroup are performed. This process can take several minutes. Do not turn off the system. After the process is completed, the Windows language selection screen is displayed.
- 3. Select your country/region, the desired operating system language and the keyboard layout from the list, then click **Next**.
  - The Microsoft software license terms are displayed.
- 4. Click **Accept** to accept the license terms and wait until Windows restarts. This can take several minutes. Do not turn off the system.
  - After restart, the Windows sign-in page is displayed.
- 5. Set a new password for the administrator account **BVRAdmin** and confirm it.

Password requirements:

- Minimum 14 characters.
- At least one upper case letter.
- At least one lower case letter.
- At least one digit.

Then press Enter.

The **Software Selection** page is displayed.

6. The system automatically scans the local drive and any connected external storage media for the DIVAR IP System Manager installation file **SystemManager\_x64\_[software version].exe**, which is located in a folder with the following structure: <code>Driveroot\BoschAppliance\</code>.

The scan might take some time. Wait for it to complete.

- 7. Once the system has detected the installation file, it is displayed on the **Software Selection** page. Click the bar that displays the installation file to start the installation.
- 8. If the installation file is not found during the scan process, proceed as follows:
  - Go to <a href="https://downloadstore.boschsecurity.com/">https://downloadstore.boschsecurity.com/</a>.

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Under the Software tab, select BVMS Appliances from the list, then click Select.
 A list of all available software packages is displayed.

- Locate the ZIP file SystemManager\_[software version].zip and save it to a storage medium such as a USB stick.
- Unzip the file on the storage medium by making sure that the folder BoschAppliance
  is placed in the root of the storage medium.
- Connect the storage medium to your DIVAR IP all-in-one system.
   The system will automatically scan the storage medium for the installation file.
   The scan might take some time. Wait for it to complete.
- Once the installation file is detected, it will be displayed on the Software Selection page. Click the bar that displays the installation file to start the installation.
   Note: To be automatically detected, the installation file must be located in a folder with the following structure: Drive root\BoschAppliance\ (for example F:\BoschAppliance\).

If the installation file is located at another location that does not match the pre-

defined folder structure, click to navigate to the respective location. Then click the installation file to start the installation.

- 9. Before the installation starts, the **End User License Agreement (EULA)** dialog box is displayed. Read the license terms, then click **Accept** to continue. The installation starts.
- 10. After the installation is complete, the system restarts and you are directed to the Windows sign-in page. Sign in to the administrator account.
- 11. The Microsoft Edge browser opens and the **DIVAR IP System setup** page is displayed. The page shows the device type and the device serial number, as well as the three operation modes and the available software versions for each operation mode. You must choose the desired operation mode and the desired software version to configure your DIVAR IP all-in-one system.

**Note:** If the desired software version for the respective operation mode is not available on a local drive, proceed as follows:

- Go to https://downloadstore.boschsecurity.com/.
- Under the Software tab, select BVMS Appliances from the list, then click Select.
   A list of all available software packages is displayed.
- Locate the ZIP files of the desired software packages, for example BVMS\_[BVMS version]\_SystemManager\_package\_[package version].zip, and save them to a storage medium such as a USB stick.
- Unzip the files on the storage medium. Do not change the folder structure of the unzipped files.
- Connect the storage medium to your DIVAR IP all-in-one system.



#### Notice!

Changing the operation mode after installation requires a full factory reset.

## 8.4.1 Choosing operation mode BVMS

To operate the DIVAR IP all-in-one system as a full video recording and management system:

 On the **DIVAR IP - System setup** page, select the operation mode **BVMS** and the desired BVMS version that you want to install, then click **Next**. The BVMS license agreement is displayed. DIVAR IP all-in-one 6000 System setup | en 37

Read and accept the license agreement, then click **Install** to continue.
 The installation starts and the installation dialog box shows the installation progress. Do not turn off the system and do not remove the storage media during the installation process.

- 3. After all software packages have been installed successfully, the system restarts. After restart, you are directed to the BVMS desktop.
- 4. On the BVMS desktop, click the desired application to configure your system.



#### Notice!

For further details, refer to the respective DIVAR IP all-in-one web-based training and to the BVMS documentation.

You can find the training under: www.boschsecurity.com/xc/en/support/training/

### 8.4.2 Choosing operation mode VRM

To operate the DIVAR IP all-in-one system as a pure video recording system:

- On the DIVAR IP System setup page, select the operation mode VRM and the desired VRM version that you want to install, then click Next.
  - The VRM license agreement is displayed.
- Read and accept the license agreement, then click **Install** to continue.
   The installation starts and the installation dialog box shows the installation progress. Do not turn off the system and do not remove the storage media during the installation process.
- 3. After all software packages have been installed successfully, the system restarts. After restart, you are directed to the Windows sign-in screen.



#### Notice!

For further details, refer to the VRM documentation.

### 8.4.3 Choosing operation mode iSCSI storage

To operate the DIVAR IP all-in-one system as an iSCSI storage expansion:

- On the DIVAR IP System setup page, select the operation mode iSCSI storage and the desired iSCSI storage version that you want to install, then click Next. The installation dialog box is displayed.
- In the installation dialog box, click **Install** to continue.
   The installation starts and the installation dialog box shows the installation progress. Do not turn off the system and do not remove the storage media during the installation process.
- 3. After all software packages have been installed successfully, the system restarts. After restart, you are directed to the Windows sign-in screen.
- 4. Add the system as an iSCSI storage expansion to an external BVMS or VRM server using BVMS Configuration Client or Configuration Manager.



### Notice!

For further details, refer to the BVMS or Configuration Manager documentation.

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### 8.5 Signing in to the administrator account

### Signing in to the administrator account in BVMS operation mode

To sign in to the administrator account in BVMS operation mode:

- 1. On the BVMS desktop, press CTRL+ALT+DEL.
- 2. Press and hold the left SHIFT key immediately after clicking Switch User.
- 3. Press CTRL+ALT+DEL again.
- 4. Select the **BVRAdmin** user and enter the password that was set during the system setup. Then press ENTER.

**Note:** To go back to the BVMS desktop, press CTRL+ALT+DEL and click **Switch user** or **Sign out**. The system will automatically go back to BVMS desktop without a system restart.

### Signing in to the administrator account in VRM or iSCSI operation mode

To sign in to the administrator account in VRM or iSCSI operation mode:

On the Windows sign-in screen, press CTRL+ALT+DEL and enter the BVRAdmin password.

### 8.6 Configuring new hard drives

DIVAR IP all-in-one units that come pre-equipped with hard drives from factory are ready to record out-of-the-box.

Hard drives that have been added to an empty unit need to be configured before using them for video recording.

To configure new hard drives for video recording, you must do the following:

- 1. Configuring RAID5, page 38.
- 2. Recovering the unit, page 39.

### 8.6.1 Configuring RAID5



#### Notice!

The initial RAID configuration is not necessary for units with pre-installed hard drives. Units with preinstalled drives are delivered with a default configuration.

To configure RAID5:

- 1. Install all hard drives.
- 2. Turn on the unit and press Del to enter the BIOS setup.
- 3. In the BIOS setup, navigate to the tab **Advanced**.
- 4. Select the option BROADCOM <SAS 3908> Configuration Utility, then press Enter.
- 5. In the **ACTIONS:** section, select the option **Configure**, then press Enter.
- 6. In the next dialog box, select the option Create Virtual Drive, then press Enter.
- 7. In the next dialog box, select the option **Select RAID Level**, then press Enter.
- The **Select RAID Level** dialog box is displayed
  8. In the **Select RAID Level** dialog box, select **RAID5**, then press Enter.
- 9. In the **CONFIGURE VIRTUAL DRIVE PARAMETERS:** section, select the option **Strip Size**, then press Enter.

The **Strip Size** dialog box is displayed.

- 10. In the **Strip Size** dialog box, select **64 KB**, then press Enter.
- In the CONFIGURE VIRTUAL DRIVE PARAMETERS: section, select the option Write Policy, then press Enter.

The Write Policy dialog box is displayed.

- 12. In the Write Policy dialog box, select the option Always Write Back, then press Enter.
- 13. In the next dialog box, select the option **Select Drives**, then press Enter.

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14. In the next dialog box, in the section **CHOOSE UNCONFIGURED DRIVES:**, select the option **Check All**, then press Enter.

15. Then, in the section **CHOOSE UNCONFIGURED DRIVES:**, select the option **Apply Changes**, then press Enter.

You receive a confirmation that the operation was performed successfully. Select **OK**, then press Enter to continue.

- 16. In the next dialog box, select the option **Save Configuration**, then press Enter.
- 17. In the next dialog box, select the option **Confirm**, press Enter, then set the status to **Enabled**, then press Enter again.
- 18. Press Enter to confirm again.

You receive the confirmation that the operation was successful.

- 19. Select **OK**, then press Enter to continue.
- 20. Press F4 and Enter to save and exit.

  The DIVAR IP all-in-one 6000 unit restarts.

### 8.6.2 Recovering the unit

#### To recover the unit:

- 1. Turn on the unit and press F7 during the BIOS power-on-self-test to enter Windows PE. The **System Management Utility** dialog box is displayed.
- 2. Select one of the following options:
  - System factory default: This option will format video data partitions and restore the OS partition with the factory default image.

This process might take up to 5 minutes.

 Full data overwrite and system factory default: This option will format video data partitions, completely overwriting existing data, and restore the OS partition with factory default image.

**Note:** This process might take up to 110 hours.

 OS system recovery only: This option will restore the OS partition with the factory default image and import existing virtual hard drives from existing video data partitions.

This process might take up to 5 minutes.

#### Note:

The **OS** system recovery only option does not delete video footage that is stored on the data HDDs. However, it replaces the complete operating system partition (including the video management system settings) with a default configuration. To access existing video footage after recovery, the video management system configuration needs to be exported before the system recovery and re-imported afterwards.



#### Notice!

Do not turn off the unit during the process. This will damage the recovery media.

3. Confirm the selected option.

The system starts the formatting and image recovery process.

- 4. After the recovery process is complete, confirm the system restart. The system restarts and setup routines are performed.
- 5. After the process is complete, the Windows language selection screen is displayed.
- 6. Proceed with the initial system setup.

#### Refer to

- First sign-in and initial system setup, page 35

### 8.7 Configuring IPMI settings

DIVAR IP all-in-one 6000 has a dedicated IPMI port on the rear side.

Each DIVAR IP all-in-one 6000 unit is delivered with the default user name ADMIN and with an initial password. The initial password is unique for each unit. You can find it on the label at the rear of the unit, below the IPMI port.

Bosch strongly recommends to change the initial password during the IPMI configuration, and to store the new password at a secure location.



#### Notice!

For security reasons, do not permanently connect the device to a public network through the IPMI port.

To configure the IPMI settings:

- 1. Turn on the unit and press Del to enter the BIOS setup.
- 2. In the BIOS setup, navigate to the tab IPMI.
- 3. Select the option **BMC Network Configuration**, then press Enter.
- 4. In the next dialog box, select the option **Update IPMI LAN Configuration**, then press Enter.

The **Update IPMI LAN Configuration** dialog box is displayed.

- 5. In the **Update IPMI LAN Configuration** dialog box, select **Yes**, then press Enter.
- 6. Set the desired network configuration parameters.
- 7. Press F4 and Enter to save and exit.

The DIVAR IP all-in-one 6000 unit restarts.

DIVAR IP all-in-one 6000 Troubleshooting | en 41

# 9 Troubleshooting

# Overheating

Problem	Solution
An overheating condition has occurred.  O  The system status LED is solid red.	<ul> <li>Make sure that no cables obstruct the airflow in the system.</li> <li>Make sure that the fan is present and operating normally.</li> <li>Make sure that the chassis cover is installed properly.</li> <li>Make sure that the ambient room temperature is not too high.</li> </ul>

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# 10 Service and repair

The storage system is backed by a 5-year service level agreement. Issues will be handled according to Bosch service and support guidelines.

The storage equipment is shipped with an original manufacturer service and support agreement for hardware.

The Bosch technical support is the single point of contact in case of failure but the service and support obligations are fulfilled by the hardware manufacturer or a partner.

To enable the manufacturer's service and support organization to fulfill the defined service levels, the system must be registered. Otherwise, the defined service level cannot be provided but only best effort.

To register your product:

- Scan the QR code that you find on the device itself, in the delivered registration leaflet, or in this manual (refer to *Product registration*, page 13).
   or
- Go to the following webpage: https://www.boschsecurity.com/product-registration/

#### Refer to

- Product registration, page 13

#### **Decommissioning and disposal** 11

At a certain point in the life cycle of your product, it might be necessary to replace or to take out of order the device itself or a component. As the device or the component may hold sensitive data, like credentials or certificates, use the proper tools and methods to make sure that your relevant data is securely deleted during decommissioning or before disposal.

### Old electrical and electronic equipment



This product and/or battery must be disposed of separately from household waste. Dispose such equipment according to local laws and regulations, to allow their reuse and/or recycling. This will help in conserving resources, and in protecting human health and the environment.

# 12 Additional information

# 12.1 Additional documentation and client software

For more information, software downloads, and documentation, visit <a href="http://www.boschsecurity.com">http://www.boschsecurity.com</a> and go to the respective product page in the product catalog. You can find the latest software and available upgrade packages in the Bosch Security and Safety Systems download store under: <a href="https://downloadstore.boschsecurity.com/">https://downloadstore.boschsecurity.com/</a>

# 12.2 Support services and Bosch Academy



Access our **support services** at www.boschsecurity.com/xc/en/support/.

# **⇔** Bosch Building Technologies Academy

Visit the Bosch Building Technologies Academy website and have access to **training courses**, **video tutorials** and **documents**: www.boschsecurity.com/xc/en/support/training/

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# **Bosch Security Systems B.V.**

Torenallee 49 5617 BA Eindhoven Netherlands

### www.boschsecurity.com

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202210051732