

Workstation Rack

Commissioning

English



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1 Introduction

Validity

This document applies to the following unit:

- Workstation Rack-Mount 4 RU

Pictures in this document may differ from the actual unit.

About this Document

This document contains the most important steps for the connection, commissioning and configuration of the unit. Safety instructions, general notes and basic technical specifications are additionally provided.

The target audience is trained and authorized professionals (installers).

Detailed descriptions of the configuration of the unit can be found in separate documentations.

Typographical Conventions

This document may contain various warning words and symbols that indicate potential sources of danger:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

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

CAUTION

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

NOTICE

NOTICE indicates practices for preventing property damage, incorrect configurations or faulty operations.

For reasons of clarity and readability, various text formatting elements and types of emphasis are used in this documentation:

Instructions are indicated by arrows:

→ Carry out instructions one after the other in the sequence described.

Expressions in ***bold/italics*** generally indicate a control element on the unit (switches or labels) or on its user interface (buttons, menu items).

Paragraphs in italics provide information on basic principles, special features and efficient procedure as well as general recommendations.

2 Safety Instructions

Only use the unit if it is technically in proper working condition and for the intended purpose while keeping safety and potential dangers in mind.

Qualified Personnel

The installation, mounting, connection, commissioning and configuration of the unit may only be carried out by qualified personnel.

This also applies to the maintenance, testing and repair, whereat the regulations of the DIN VDE 0701 series of standards (repair, modification and inspection of electrical appliances) must be followed.

Regulations

The use of video and audio surveillance systems is, in general, strictly regulated. Inform yourself about the currently valid laws and regulations regarding data, worker and environmental protection before using the unit and ensure compliance with them.

System Components

Only use internal components that have been tested and approved by Dallmeier. Inappropriate internal components may cause malfunctions, damages and data loss and may result in the loss of warranty.

Modifications

Do not make any modifications to the hardware or software that have not been tested and approved by Dallmeier.

Inappropriate modifications may cause malfunctions, damages and data loss and may result in the loss of warranty.

Documentation

Read the documents included in the delivery carefully and thoroughly. Always observe the contained instructions, notes and warnings.

Condensation Water

If the unit is brought from a cold to a warm environment, resulting condensation water may cause malfunctions and damages.

In this case, wait (up to 8 hours) until the unit has reached room temperature before commissioning.

Earthing & Equipotential Bonding

For the safety of persons (protection against dangerous contact voltages) and devices (protection against overvoltages) and the immunity of information and communication technology equipment to electromagnetic interferences (EMI), all protective measures, which are specified by the currently valid DIN, VDE and ISO standards and which provide for a standard-compliant earthing and a correct equipotential bonding of electrical and electronic devices, are mandatory and must be fulfilled by all means.

Lightning Storms

To avoid damage to the unit by electrical surge during lightning storms, unplug the unit from the mains power supply (pull out the power plug).

This is also recommended, when the unit has been unused for a long period of time.

Operating Conditions

Unfavourable operating conditions may shorten the life of the unit and may cause malfunctions, damages and data loss and may result in the loss of warranty.

Observe the specifications given in the technical data, the operating condition requirements and the maintenance instructions.

Shocks

Shocks may cause malfunctions and damages.

The unit may not be moved while in operation.

Foreign Bodies

If objects or liquids get into the unit, immediately disconnect it from the power supply (pull out the power plug).

Contact the sales partner responsible for your area.

Burnt Smell

If you notice burnt smell or a formation of smoke coming from the unit, immediately disconnect it from the power supply (pull out the power plug).

Contact the sales partner responsible for your area.

Opening

The housing of the unit may only be opened by qualified personnel for commissioning, inspection, maintenance and repair.

Elevated ambient temperature

The ambient temperature in a multi-unit rack may be higher than the room ambient. Ensure that the maximum ambient temperature in the rack complies with the requirements specified in the technical data.

Reduced air flow

The air flow in a (closed) rack may be reduced. Ensure that the amount of air flow required for a safe operation is not compromised. Ensure sufficient ventilation with 4" (10 cm) of free space on the front, rear and right side of the device.

Disposal

Do not dispose waste electrical and electronic equipment into the household trash.

Disconnect the unit from the power supply.

Remove all connected devices.

Return the unit to your respective sales partner.

3 General Notes

Scope of Delivery

The standard scope of delivery includes all brackets, screws and plastic screw anchors that are necessary for a proper installation.

However, it has to be considered that the scope of delivery may differ depending on the ordered equipment, the device variant or the country of destination.

Transportation and Packaging

Store the original packaging for transportation at a later date.

Dallmeier is not responsible for any damage resulting from unprofessional/improper transportation.

The goods should only be shipped in their original packaging.

If the original packaging is no longer available, ensure that the packaging used sufficiently protects the unit against damage, moisture, heat and cold.

Warranty

The terms and conditions valid at the time the contract was signed shall apply.

Approvals/Certifications

The following approvals/certifications were valid at the time of this document's compilation:

- CE, FCC

Visit www.dallmeier.com for possible updates.

Note (USA)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Appropriate Use

The **Workstation Rack-Mount 4RU** is equipped with a powerful Intel Core i7 Hexa-Core CPU and 16 GB DDR4 RAM. Together with the included license for the

Windows[®] 7 operating system, it is an optimal and versatile platform for the use in security centres.

The extremely powerful and perfectly matching hardware components are ideal for the use in conjunction with **Panomera[®] multifocal sensor systems**. As a platform for the software Panomera[®] Viewing Client or Panomera[®] Streaming Server decoding, streaming and display of Panomera[®] streams are supported in real-time.

In combination with the appropriate software, the workstation can be used in the **SeMSy[®] III video management system** as SeMSy[®] III Workstation for the convenient operation of the entire system or as SeMSy[®] III Variodecoder. It is also possible to integrate the various components of the **SMAVIA Software Package**.

Main Features

- Microsoft Windows*) 10 Pro 64 Bit operating system
- CPU Intel*) Core i7, Hexa-Core, 3.5 GHz
- 16 GB DDR4 RAM
- SSD with 128 GB (SATA) for operating system included
- HDDs with 1000, 2000 or 4000 GB (SATA) optional
- Two powerful GPU boards for decoding included
- One graphics board for up to 4 displays included
- Two high-performance and redundant PSUs integrated
- 4 RU rack-mount housing (short depth)
- Mounting rails for the installation in a 19" rack integrated

Suitability

In combination with the appropriate software, the device is suitable for the integration into systems with the following hardware and software technology.

- PANOMERA®
- SeMSy® III
- SMAVIA

4 Requirements

General

Unfavourable local conditions may shorten the life of the unit and may cause malfunctions or damages.

→ Do not install/operate the unit in places

- with a large amount of dust and dirt,
- with steam or oil vapours (e.g. kitchen),
- with direct sunlight,
- with strong heat emissions (e.g. radiator),
- with improper ambient temperatures,
- near sources with strong radiation (e.g. radio transmitters, magnetic fields),
- with corrosive surroundings (e.g. gases, salt water),
- with insufficient air ventilation (e.g. closed cabinet).

Voltage Supply

The unit is operated with 115/230 V AC $\pm 10\%$, 50/60 Hz.

NOTICE

Prevention of separation from the circuit

The plug of the supply line is used as disconnection device from the supply circuit.

- Use a socket-outlet that is installed near the unit.
- Ensure that the socket-outlet is easily accessible.

Maintenance

The housing of the unit may only be opened by qualified personnel for commissioning, inspection, maintenance and repair.

WARNING

Danger of electric stroke

The device is equipped with two redundant power supply units.

→ Ensure that both supply lines are disconnected from the supply circuit

CAUTION

Danger of explosion if battery is incorrectly replaced

→ Replace and discard the battery of the mainboard in accordance with the instructions of the manufacturer.

Cleaning

If it is necessary to clean the unit, observe the following notes:

NOTICE

Damage to the surface of the unit

→ Clean the housing with a soft, dry and antistatic cloth.

→ Do not use detergents.

5 Connections

Rear Side

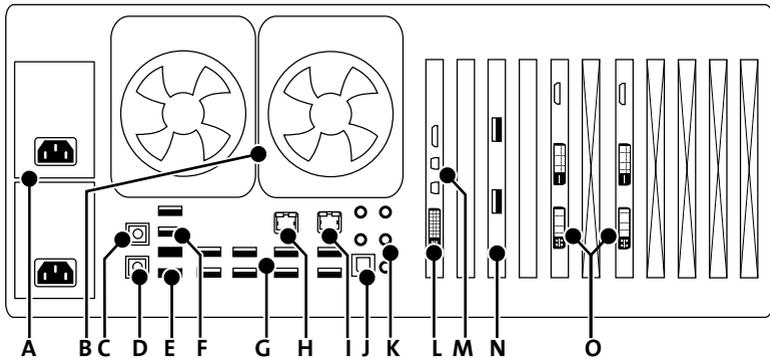


Fig. 1

- A Power Supply Module 1 and 2**
2× IEC C14 socket, 110/240 V AC, 50/60 Hz, 600 W
- B Fan 1 and 2**
2× 80 mm, redundant, Hot-Plug
- C Q-Code Push Button**
1× Push button (Q-Code Logger)
- D Flashback Push Button**
1× Push button (USB BIOS Flashback)
- E SATA Interface**
2× eSATA
- F USB Interface**
2× USB 3.0, (top Q-Code Logger, bottom USB BIOS Flashback)
- G USB Interface**
8× USB 3.0, type A
- H Ethernet Interface 2**
RJ45, 10/100/1000 Mbps
- I Ethernet Interface 1**
RJ45, 10/100/1000 Mbps

J Audio OUT

1× optical toslink, S/PDIF

K Audio Interface

5× 3.5 mm phone jack (4× Audio OUT, 1× Microphone)

L Monitor OUT

1× DVI-I, Dual-Link (24 + 5), on Nvidia GeForce, dual-slot

M Monitor OUT

2× Mini DisplayPort 1.2, 1× Mini HDMI 2.0, on Nvidia GeForce, dual-slot

N USB Interface

2× USB 2.0, type A

O GPU Board 1 and 2

2× Nvidia GeForce, dual-slot, for decoding, connections not active

Front Side

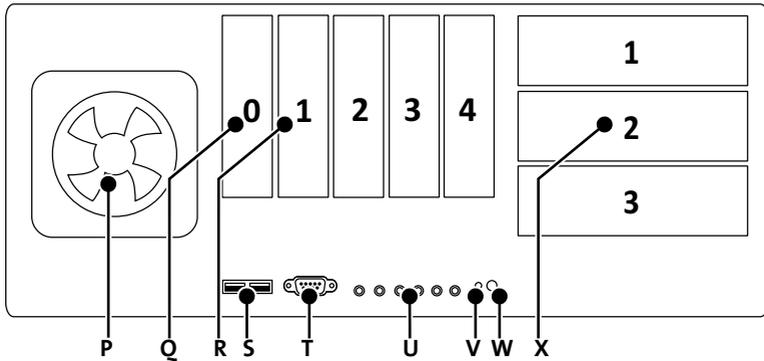


Fig. 2

- P Fan 3**
1× 90 mm
- Q HDD Changeable Frame 0**
1× SATA SSD, 3,5" (operating system)
- R HDD Changeable Frame 1 to 4**
4× SATA, 3,5"
- S USB Interface**
2× USB 2.0, type A
- T COM 1**
D-SUB, 9 pins
- U LED Status Display**
3× LED (1× HDD activity, 2× not active, 2× voltage status, 1× system information)
- V Reset Switch**
- W Mains Switch**
- X Drive Bay 1 to 3**
3×, 5,25"

6 Login

The graphical user interface is displayed after the successful identification as authorized user.

The factory default admin password is “**pvsdallmeier**”.

NOTICE

Risk of misuse by unauthorized users!

→ Change the factory default admin password as soon as possible.

NOTICE

Danger to system integrity!

→ Ensure an adequate protection against malicious software (malware).

→ Ensure a regular data archiving (backup).

NOTICE

Risk of malfunction of the installed software!

The energy options of the operating system are set for optimum operation with the installed software ex factory. Modifications can lead to a malfunction of the software.

→ Do not make any modifications to the energy options in the system control of the operating system.

Detailed descriptions of the configuration of the unit can be found in separate software documentations available on www.dallmeier.com.

7 Technical Specifications

The following basic technical specifications were valid at the time of this document's compilation.

Detailed specifications and possible updates can be found in the current product data sheet on www.dallmeier.com.

Electrical Data

Power supply units	2× high-performance modules, 600 W
Redundancy	Yes
Voltage supply	115/230V AC ± 10%, 50/60Hz
Power consumption	Max. 400 W
Heat power	Max. 1366 BTU/h

Mechanical Data

Dimensions (W × H × D)	Approx. 437 × 178 × 521 mm (17.2" × 7.0" × 20.5")
Height units	4 RU
Weight	Approx. 21 kg (46 lb) (with two hard disk drives)

Ambient Data

Temperature	+5°C up to +35°C (41°F – 95°F)
Recommended temperature	+20°C up to +25°C (68°F – 77°F)
Humidity	5 – 70% RH, non-condensing
Atmospheric load	Dust-free

Approvals/Certifications

Type	CE, FCC
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Notes

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