



DISS 6 Hardware

Digital Image Scanning System

User Manual

Version: 6.1.0.0

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- Important** Anybody working with DISS 6 Hardware has to have read and understood the relevant parts of this manual.
- Accessibility** All staff working with DISS 6 Hardware have to have constant access to the manual to prevent handling errors and guarantee trouble-free operation.
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- Notice** Every endeavor has been made to make sure that the information contained in this document is complete and correct at the printing date. This manual describes all units and functions known of at the current point of time.
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- Product information** Product: Digital Image Scanning System, 6th generation
Denomination: PE-DISS6
Manufacturer: point electronic GmbH

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I Introduction

Chapter Overview

Purpose This chapter contains information to simplify working with this manual.

Contents This chapter contains the following topics:

- › User Groups of this Manual. 5
- › Structure of this Manual 6
- › Representations in this Manual 7
- › Identification of the Warning Notices 9

User Groups of this Manual

Operators "Operators" are persons with right of disposal over DISS 6 Hardware who use DISS 6 Hardware for acquisition or other purposes.

Technical staff "Technical staff" are those persons that the operators entrust with tasks related to use and operation. Technical staff are trained by the operators to carry out their assigned tasks and are informed on the potential hazards that may arise due to improper handling.

Technical staff need to undergo a training by point electronic GmbH or a partner company of point electronic GmbH covering the following topics:

- handling of the connected SEM
- areas of application of DISS 6 Hardware
- handling of DISS 6 Hardware
- handling of DISS 6 software
- basic maintenance tasks and troubleshooting

Service technicians "Service technicians" are staff members whose specialist training, knowledge and experience as well as familiarity with the relevant safety regulations mean they are able to assess the tasks they have been entrusted with and anticipate potential hazards.

Service technicians may be:

- staff members of point electronic GmbH
- staff members of partner companies of point electronic GmbH

Structure of this Manual

- Purpose** This manual describes structure, installation and maintenance of DISS 6 Hardware.
- Structure** This manual is structured into chapters which are organized by technical aspects.
- Numbering** The chapters are numbered with Arabic numerals. Chapters may be structured in sections. Sections are numbered as second numbering level (e.g. 3.1). Sections are used to structure large chapters into sub-chapters.
- All pages in this manual are numbered consecutively.
- Overviews** All chapters and sections comprise an overview including content information and page numbers. This enables users to directly get acquainted with specific topics as well as using single chapters independently.
- Related information** Related cross-page information within the manual is marked with "Continuation next page ..." resp. "Continuation:". Please pay attention to the completeness of the information when copying parts of the manual.
- Cross references** The content of this manual is structured by topics. If further information on one topic may be found elsewhere in the manual, the particular chapter and page are pointed out.




Representations in this Manual

Illustrations Illustrations used in this manual do not always contain all details or special cases. They only represent the relevant information.

Menu functions In this manual, the various menu functions are presented as follows:

Finding a menu point: Open > File

Keyboard shortcuts Frequently used functions and instructions may be activated by using certain key combinations. These are presented as follows:

Keyboard shortcut	Representation
Key	
Key combination	 + 

Inputs and outputs Certain recurring symbols or descriptions are used to symbolize possible screen inputs and outputs. These are used as follows:







Inputs and outputs	Representation
Buttons	Button
Dialog windows	Dialog window
Elements of the user interface	GUI element

Mouse functions The following table explains the concepts used in this manual to describe the handling of the mouse:

Concept	Explanation
Click	singular pressing of the left mouse button
Double-click	double pressing of the left mouse button
Right-click	singular pressing of the right mouse button
Pressed mouse button	left or right mouse button is kept pressed during a process
Drag & Drop	<p>"Drag & Drop"</p> <p>Clicking on an element of the user interface, dragging the element with pressed mouse button to another position, dropping the element in this position.</p>

Continuation next page ...

Icons The following icons are used to visually emphasize certain information:

Icon	Meaning
	Notice For example:  The selected parameter will not be inserted in the parameter list.
	Reference to another part of this manual For example:  see „Cross references“ on page 6
	Use of a specific tool For example:  screwdriver TX 10




Notices Important notices are marked as follows:

NOTICE	Please always mind the notices marked in this manual! Notices explain relations that even for expert users might not be evident at first glance. The neglect of a notice is no direct security risk. However, it can lead to disturbances in the operating procedure.
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Identification of the Warning Notices

Purpose This operating manual includes warning notices that may lead to serious consequences if disregarded. Warning notices are not only listed in the “Safety Regulations” chapter, but especially in places where hazards for people, equipment and operation may arise.

Identification of hazards There are three classes of hazards. These classes are indicated by specific signal words and colors. They include the following:

Signal word	Meaning
 DANGER	Warning notice, which if disregarded will definitely or very likely result in death or very serious injury.
 WARNING	Warning notice, which if disregarded may result in serious injury, permanent damage to health or serious property loss.
 CAUTION	Warning notice, which if disregarded may result in injury or property loss including financial losses due to operational impairment.



S Safety Regulations

Chapter Overview

Purpose This chapter contains safety information relating to the protection of persons as well as safe and fault-free operation. All user groups of the hardware and software must be aware of and follow these safety provisions.

Contents This chapter contains the following topics:

- › Introduction 11
- › Basic Hazards 12
- › Staff and Qualifications 13
- › Responsibility of the Operating Company 14
- › Working in a Safety-conscious Manner 15
- › Modifications and Alterations 16
- › Maintenance Work 17
- › Cleaning 19
- › Environmental Protection 20



Introduction

- Reliable and safe operation** The reliable and safe operation of the DISS 6 Hardware depends on carefully implementing the operating, setup and maintenance tasks.
- Observance of the safety instructions** Always observe and follow the safety instructions and accompanying code of conduct when handling the DISS 6 Hardware and software. Always point out the instructions and code of conduct to staff working with the hardware and software.
- Generally applicable safety regulations (such as accident prevention and environmental protection regulations, etc.) must also be observed.
- Consequences arising from failure to observe the safety instructions** Failure to observe the safety instructions can result in death or serious injury of personnel and damage or destruction of the hardware components.

Basic Hazards

Definition The DISS 6 Hardware meets the current state of the art as well as the applicable safety regulations. The DISS 6 Hardware has been tested at the manufacturer's site and is delivered in a state safe for operation.

Basic hazards are residual risks that may arise despite proper and safety-conscious use of the DISS 6 Hardware.

 DANGER	<p>Risk of death by electrocution!</p> <p>Touching live parts may lead to death or serious injury.</p> <ul style="list-style-type: none"> – Turn off the mains voltage before any works on the DISS 6 Hardware. – Secure the DISS 6 Hardware against unintentional re-start. – Works on the DISS 6 Hardware may only be executed by service technicians. – Never operate the DISS 6 Hardware when the mains cable is damaged.
 WARNING	<p>Risk of injury due to improper use!</p> <p>Improper use of the DISS 6 Hardware may lead to injury.</p> <ul style="list-style-type: none"> – Always protect the DISS 6 Hardware from extreme heat (excessive sun exposure, close proximity to open fire or heating equipment) during operation and storage. – Avoid hard impacts that might damage parts of the DISS 6 Hardware.

Staff and Qualifications

Permissions Works on the DISS 6 Hardware may only be performed by technical staff and/or service technicians (🔧 see „User Groups of this Manual“ on page 5).

Note the legally prescribed minimum age for personnel.

Only qualified electricians or technical staff under guidance and supervision of a qualified electrician may perform works on electrical components of the DISS 6 Hardware in accordance with the electrotechnical regulations.

Staff undergoing training or instructions or persons taking part in general vocational training programs may only operate the DISS 6 Hardware under the continuous supervision of technical staff.

Responsibility of the Operating Company

Condition of the DISS 6 Hardware and/or the overall system The operating company shall ensure that all safety and protective devices are fully functional at all times. This equipment should therefore be checked periodically for functionality and completeness.

This applies to the DISS 6 Hardware as single component as well as the overall system into which DISS 6 Hardware is integrated as a subcomponent.

Internal measures to avoid hazards The operating company must be aware of the applicable industrial safety regulations and use a risk assessment to determine any additional hazards that may arise from the special working conditions at the DISS 6 Hardware's site of operation. Internal instructions for avoiding the identified hazards should then be drawn up.

Throughout the entire operating period of the DISS 6 Hardware, the operating company must examine and determine whether the supplied operating instructions comply with the current status of applicable regulations.

Staff Regarding the staff authorized or trained by the operating company, the operating company carries the following responsibilities:

- The necessary training and instruction of staff must be guaranteed.
- The powers and responsibilities of staff for installation, operation, maintenance and service must be clearly defined and documented.
- This user manual must be kept in the immediate surroundings of the DISS 6 Hardware and must be readily accessible to staff.

Working in a Safety-conscious Manner

Accident prevention and environmental protection

In addition to the information in this user manual, also note the generally applicable statutory and other binding regulations relating to accident prevention and environmental protection.

This may include, for example:

- dealing with hazardous substances
- wearing the necessary and prescribed personal protective clothing
- observance of and compliance with all national and regional industrial safety regulations
- observance of and compliance with all internal working, operating and safety regulations

Content of this user manual

Prior to operation, all staff members assigned to work on the DISS 6 Hardware must have read and understood the relevant parts of this user manual, especially the chapter "Safety Regulations".

Modifications and Alterations

No unauthorized modifications Any unauthorized modifications to the DISS 6 Hardware exclude any liability by the manufacturer for resulting damage and consequences.

Do not perform any modifications, additions and/or alterations to the DISS 6 Hardware without written authorization from point electronic GmbH.

Spare parts and accessories Spare parts and accessories must comply with the technical requirements specified by point electronic GmbH and its suppliers. Whenever original parts are used, compliance is given.

No modifications of the software No modifications to the software must be made or commissioned to third parties. The software may not be deleted, decrypted or decompiled in full or in part.

If changes to the software are necessary, please contact point electronic GmbH.

Maintenance Work

Implementation High reliability as well as low maintenance costs of the DISS 6 Hardware may be achieved through careful implementation of the maintenance schedule and regular monitoring over the entire operational lifetime.

Compliance with regulations When performing maintenance work, it is essential to observe the following:

- applicable accident prevention regulations,
- applicable environmental protection regulations and
- safety instructions for maintenance work.

Only perform maintenance work if:

- you are authorized to do so and
- the DISS 6 Hardware is turned off and secured against unintentional restart.

Before getting started Before you begin maintenance work, please make sure that:

- the DISS 6 Hardware is de-energized and disconnected from the power supply and
- the power supply may not be re-established unintentionally as long as the maintenance work lasts.

Works during operation In any case, the operating company or the personnel employed by it must check based on the specific local conditions that the specified work may be performed during operation without endangering anybody.

Continuation next page ...

Electrical equipment Regularly check the electrical equipment of the DISS 6 Hardware. Immediately rectify defects (such as loose cable connections and/or faulty cables).

Damaged or faulty cables may only be replaced by cables that match the requirements stipulated by point electronic GmbH and/or its suppliers!

Check that the surfaces of all electrical equipment parts are dry and free of oil, grease, deposits and corrosion.

Only use voltage-insulated tools!

Do not place any tools or working materials on the conductive surfaces of components.

Faulty fuses may only be replaced by fuses that match the requirements (specifications and ratings) stipulated by point electronic GmbH!

Faulty fuses may not be repaired or bypassed, but must be replaced by fuses of the same type.

Cleaning

- Suitable cleaning products** Only use cleaning products approved by point electronic GmbH.
- All cleaning products used by the customer should be checked with point electronic GmbH or the respective supplier to ensure they are compatible with the materials and colors used.
- Unsuitable cleaning agents** Never use aggressive cleaning agents for cleaning the DISS 6 Hardware.
- Cleaning equipment** Use lint-free cleaning cloths/wipes for cleaning the DISS 6 Hardware.
- After cleaning** After cleaning, make sure that:
- cables, ports and fittings are free of oil and/or cleaning agents and
 - cables, wires, connectors and electrical components are dry.

Environmental Protection

Recyclable materials When performing maintenance work, ensure that reusable materials are recycled.

Disposal Electrical and electronic waste may constitute a hazard to health and environment when disposed off improperly. According to WEEE (Waste Electrical and Electronic Equipment Directive) 2012/19/EU, electrical and electronic waste may not be disposed off as general domestic waste but must be handed in at specific collection points or sent back to the manufacturer.

Check with your local environmental protection agency for the prescribed disposal options for commercially used electronic waste.

Only hire waste disposal companies that are approved by the national and regional authorities.



1 System Overview

Chapter Overview

Purpose This chapter describes the DISS 6 Hardware. It contains information on the use, scope of delivery, equipment, structure and function.

Contents This chapter contains the following topics:

- › Intended Use 22
- › Improper Use. 23
- › Scope of Delivery 24
- › Optional Equipment 25
- › System Requirements 26
- › Structure 27

Intended Use

Purpose The DISS 6 Hardware and software are exclusively intended for the acquisition and management of digital image data.

Operation The DISS 6 Hardware may only be operated in a technically perfect condition and as intended, in compliance with the user manual and under consideration of safety and potential hazards. Malfunctions, in particular those that may impair safety, should be rectified immediately.

If the DISS 6 Hardware shows damages or defects that compromise operational safety, this must immediately be reported to the operations center, and the DISS 6 Hardware must not be put into operation.

Operation and maintenance of the DISS 6 Hardware may only be performed by technical staff and service technicians (🔧 see „User Groups of this Manual“ on page 5). The valid safety and accident prevention regulations must be observed.

Compliance with regulations All operating, maintenance, setup and service measures prescribed by the manufacturer must be complied with.


Additional information In addition to this user manual, the generally applicable, legal and other binding regulations and legislation and environmental protection instructions must be adhered to.

Improper Use

Any use not authorized by the manufacturer is not permissible and may lead to injury or property damage.

point electronic GmbH does not accept liability for damage arising from improper use of the DISS 6 Hardware.

In particular, improper use includes:

- operation in explosive environments
- operation in an environment that does not meet the stipulated requirements
 -  see „Operating Conditions“ on page 41
- modifications and/or additions that impair the performance
- exchanging components with unauthorized components

Scope of Delivery

The following equipment is part of DISS 6 Hardware's scope of delivery:

- mains cable
- USB cable
- set of connecting cables for scan and video

Optional Equipment

The delivered equipment depends on the order details. It includes:

- EDX/WDX system
- Multi-Channel Signal Amplifier (MICS)
- Electron Beam Induced Current (EBIC) measurement system
- Electron Beam Absorbed Current/Resistive Contrast Imaging (EBAC) imaging system

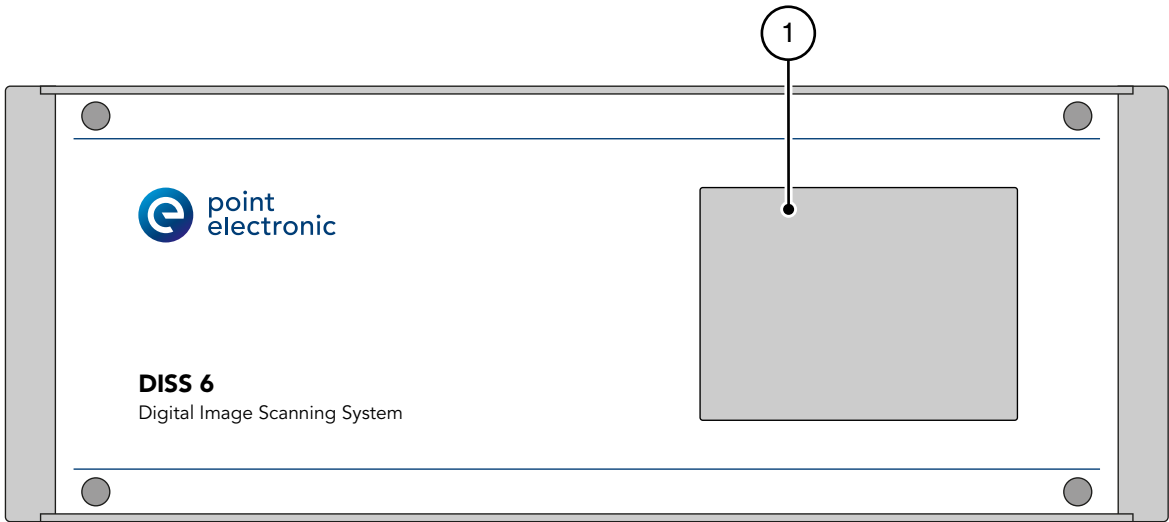
System Requirements

Computer system The following table contains information on the minimum requirements of the computer system:

Component	Requirement
Computer	IBM-compatible from Core i3
Operating system	Windows 7 to 10 (x86 or x64)
RAM	8GB
Graphics	resolution at least 1280×1024 pixels, true color
Interfaces	at least one free USB 2.0 or USB 3.0 slot
Periphery	mouse with scroll wheel

Structure

Front The following figure shows the front of the DISS 6 Hardware with its components:

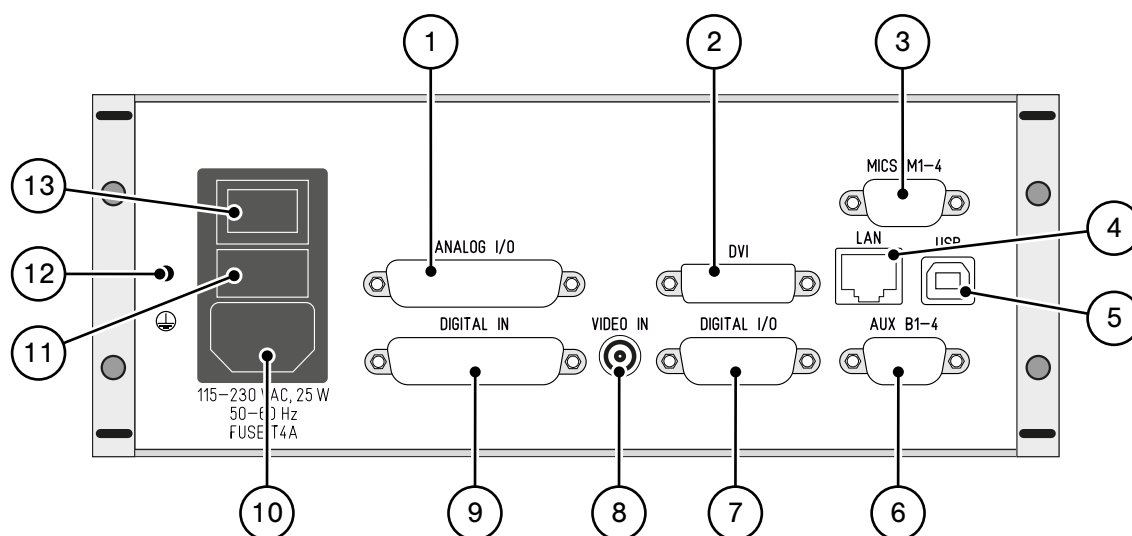


The following table contains information on the components on the front of the DISS 6 Hardware:

No.	Component
1	Touch-sensitive display shows status and system information in several switchable categories

Continuation next page ...

Back The following figure shows the back of the DISS 6 Hardware with its components:



The following table contains information on the components on the back of the DISS 6 Hardware:

No.	Component
1	Analog I/O <ul style="list-style-type: none"> – port for analog inputs and outputs – type: 25 pin D-Sub male
2	DVI <ul style="list-style-type: none"> – port – type: DVI-I (dual link) female
3	MICS M1-4 <ul style="list-style-type: none"> – port for Multi-Channel Signal Amplifier (optional) – type: 15 pin D-Sub female
4	LAN <ul style="list-style-type: none"> – port for network connection – type: RJ-45 socket
5	USB <ul style="list-style-type: none"> – USB port – type: USB type B
6	AUX B1-4 <ul style="list-style-type: none"> – port for additional analog inputs (fast) – type: 9 pin D-Sub male
7	Digital I/O <ul style="list-style-type: none"> – port for digital inputs and outputs – type: 15 pin D-Sub female

Continuation next page ...

No.	Component
8	Video In <ul style="list-style-type: none">– video input for composit video (PAL)– type: cinch socket
9	Digital In <ul style="list-style-type: none">– video counter inputs 1-12 (5 V TTL)– type: 25 pin D-Sub female
10	Mains voltage connector <ul style="list-style-type: none">– 115–230 VAC, 25 W, 50–60 Hz– type: C14 male
11	Fuses <ul style="list-style-type: none">– 2 pieces– replaceable– type: T4A
12	Protective grounding connector
13	On/off switch



2 Installation and Configuration

Chapter Overview

Purpose This chapter contains information and instructions on installation and configuration of the DISS 6 Hardware.

Contents This chapter contains the following topics:

- › Positioning 31
- › Installation 32
- › Configuration of Inputs and Outputs 35

Positioning

Installation site Please make sure that the installation site adheres to the stipulated operating conditions.


 see „Operating Conditions“ on page 41

Position the DISS 6 Hardware on a level non-slip working surface.


NOTICE	Always ensure accessibility!
	When positioning the DISS 6 Hardware, please ensure that on-off switch and all connectors are accessible without obstructions.

Installation

Requirements Prior to installation of the DISS 6 Hardware, please check to make sure that the connected computer complies with the following requirements:

- The computer is equipped with a USB 2.0 or USB 3.0 port. If this is not the case, please install a USB plug-in card. Mind the system requirements for installation of the drivers.
 see „System Requirements“ on page 26
- The DISS 6 software is already installed on the computer.

Before getting started Complete the following steps to prepare the installation of the DISS 6 Hardware:


NOTICE	Please mind the DISS 6 Hardware connectors! When connecting the DISS 6 Hardware, please refer to the description of the unit's backside.  see „Back“ on page 28


1. Connect the protective grounding to the DISS 6 Hardware.
2. Connect the DISS 6 Hardware to the supply voltage.
3. Start the computer.
4. Switch on the DISS 6 Hardware.

Continuation next page ...

Steps Complete the following steps to completely install the DISS 6 Hardware:

1. Use a USB cable to connect the DISS 6 Hardware to the computer's USB port.
→ A dialog window with a prompt to install the driver will appear on the screen.
2. Use the automatic search to find the driver on your computer system.
3. Configure the digital outputs "ext. blank out" and "ext. scan out".

 These outputs are potential-free relay outputs destined for switching the SEM to external beam control. They need to be adjusted to the SEM's requirements.


 see „Configuration of Inputs and Outputs“ on page 35

4. Connect the DISS 6 Hardware to the SEM.

 Please mind the following plan of pin assignment:

Analog I/O 25 pin Sub-D male		AUX B1-B4 9 pin Sub-D male		Digital In 25 pin Sub-D female		Digital I/O 15 pin Sub-D female	
1	scan y out	1	video B1+	1	X 1	1	PixelClock
2	scan x out	6	video B1-	2	X 2	2	LineClock
3	ext. scan out	2	video B2+	3	X 3	3	FrameClock
4	ext. blank out	7	video B2-	4	X 4	4	HoldClock
5	video A1+	3	video B3+	5	X 5	5	Ext. Scan
6	video A1-	8	video B3-	6	X 6	6	Ext. Blank
7	video A2+	4	video B4+	7	X 7	7	BeamBlanker
8	video A2-	9	video B4-	8	X 8	8	Lock-In Ref Out
9	video A3+	10	GND	9	X 9	9	GND
10	video A3-	multiplexed inputs (A or B simultaneous)		10	X 10	10	GND
11	video A4+			11	X 11	11	Pixel Sync
12	video A4-			12	X 12	12	Line Sync
14	scan y in			14-25	GND	13	Frame Sync
15	scan x in			TTL Counter Inputs		14	Pause In
16	ext. scan in					15	Spare I/O
17	ext. blank in						
18-24	GND					Sync: TTL Inputs	
Scan Outputs ±12V max.						Clock: TTL Outputs	
						Ext.: TTL Outputs	

Continuation next page ...

5. Optional: Establish a connection to the EDX/WDX systems.
For this, connect the impulse inputs with the counter outputs of the Wavelength Dispersive X-ray Spectrometer (WDX) and/or the output windows of the Energy Dispersive X-ray Spectrometer (EDX).
 The inputs are designed for TTL levels. For differing levels, adaptation by the manufacturer is necessary.
6. Optional: Connect the SEM to the computer via RS232.

Functional test After complete installation of the DISS 6 Hardware, a functional test may be carried out independent from the SEM. For this, the x and/or y deflecting voltage are assigned to the inputs for analog image signals. The image acquisition provides an optical wedge for X or Y direction.

Configuration of Inputs and Outputs

Description All inputs and outputs are adjusted to the connected SEM on the carrier board of the DISS 6 Hardware.

⚠ DANGER	<p>Risk of death by electrocution!</p> <p>Body contact with live parts can lead to death or very serious injuries as well as the destruction or damaging of components.</p> <ul style="list-style-type: none"> – Prior to the configuration of inputs and outputs, please make sure that the DISS 6 Hardware is de-energized and secured against unintentional starting (re-start).
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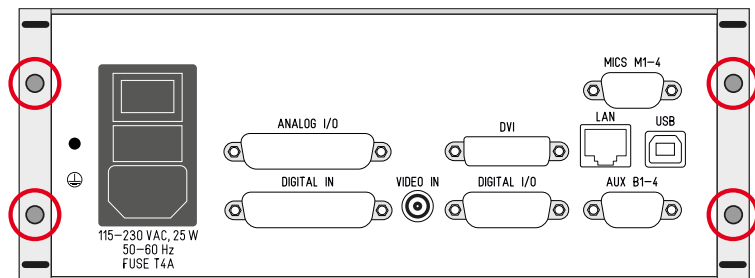
Before getting started Complete the following steps before configuring the inputs and outputs of the DISS 6 Hardware:

1. Switch off the DISS 6 Hardware.
2. Remove the mains cable.
3. Remove all connected cables from the DISS 6 Hardware.

Steps Complete the following steps to configure the inputs and outputs of the DISS 6 Hardware:

1. Remove the 4 screws (TORX TX 10) on the back of the DISS 6 Hardware.

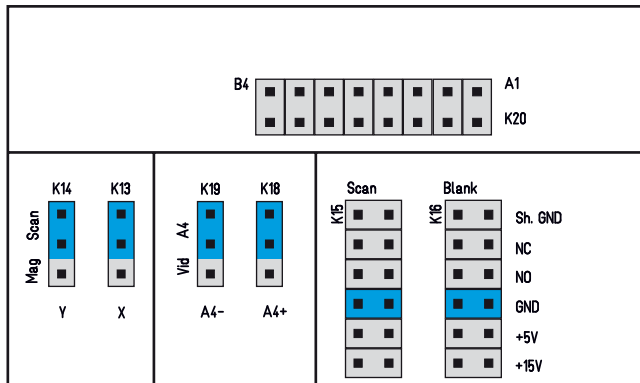
 screwdriver TX 10



2. Push back the upper casing cover.

Continuation next page ...

3. Adjust all allocations according to the layout illustration:



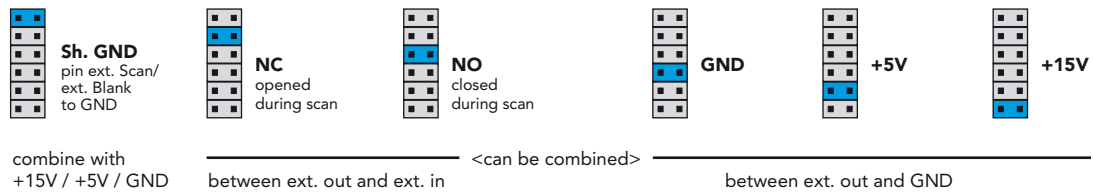
K20: Terminating resistor for the signal inputs A1-A4, B1-B4
Jumper closed = terminated with 50 Ω

K13, K14: Type of the scan output
Scan (standard): fixed configured signal level
Mag: signal level can be changed by DAC

K18, K19: Type of the signal input A4
A4 (standard): analog signal
Vid: configuration for composite video (PAL)

K15, K16: Configuration of the ext. Scan/Blank outputs
K15: signal ext. Scan
K16: signal ext. Blank

K15, K16 Configuration



4. Close the casing cover.
5. Attach the 4 screws (TORX TX 10) on the back of the DISS 6 unit.

 screwdriver TX 10



3 Maintenance


Chapter Overview


Purpose This chapter contains instructions on the maintenance of the DISS 6 Hardware.

Contents This chapter contains the following topics:

- › Replacement of Fuses 38

Replacement of Fuses

Position of the fuses The fuses are located at the back of the DISS 6 Hardware.
 see „Back“ on page 28

 DANGER	<p>Risk of death by electrocution!</p> <p>Body contact with live parts can lead to death or serious injuries as well as the destruction or damaging of components.</p> <ul style="list-style-type: none">– Prior to the replacement of the fuses, please make sure that the DISS 6 Hardware is de-energized and secured against unintentional starting (restart).
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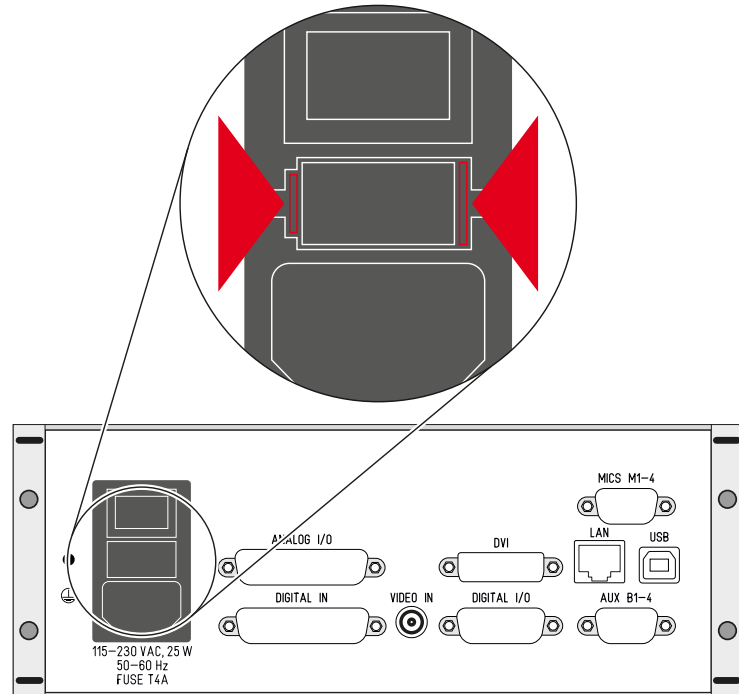
Before getting started Complete the following steps before configuring the inputs and outputs of the DISS 6 Hardware:

1. Switch off the DISS 6 Hardware.
2. Remove the mains cable.
3. Remove all connected cables from the DISS 6 Hardware.

Continuation next page ...

Steps Complete the following steps to replace the fuses of the DISS 6 Hardware:

1. Pinch the locking tongues of the fuse holder and pull the fuse holder from the slot.



2. Replace the fuse or fuses.

⚠ Only use fuses that match the stipulated ratings!

📖 see „Fuses“ on page 42

3. Push the fuse holder into the slot until the locking tongues snap in.



4 Specifications

Chapter Overview

Purpose This chapter lists the specifications of the DISS 6 Hardware.

Contents This chapter contains the following topics:

- › Operating Conditions 41
- › DISS 6 Hardware Specifications 42

Operating Conditions

The following table contains information on the operating conditions of the DISS 6 Hardware:

Site of operation	<ul style="list-style-type: none"> – indoor – controlled electromagnetic environment
Ambient air	<ul style="list-style-type: none"> – average air pressure (approx. 1 bar) – dry – free of dust
Ambient temperature	5 to 40 °C
Humidity	80% max. (at 31 °C, non-condensing)
Altitude	2,000 m max.

DISS 6 Hardware Specifications

Electrical safety The following table contains information on electrical safety:

Protection class	I
Protection type	IP20
Overvoltage category	II
Contamination level	1

Power supply The following table contains information on the specifications of the power supply:

Supply voltage	115 – 230 VAC
Frequency	50 – 60 Hz
Power draw	25 W max.
Supply voltage fluctuations	± 10% max.

Fuses The following table contains information on the fuses:

Number	2 pc. (replaceable)
Type	T4A
Rating	4 A slow blowing

Dimensions and weight The following table contains information on the dimensions and weights:

Height	90 mm
Width	290 mm
Depth	235 mm
Weight	approx. 3.4 kg

EC-Declaration Of Conformity (Nr 19-2) (V1.1)

according to EC-Directive 2014/30/EC (electromagnetic compatibility) issued 26. 02.2014

For the below given Product is Hereby declared that it conforms to the essential requirements set out in community harmonization legislation:

Electromagnetic Compatibility Directive 2014/30/EU of 14 October 2014

Manufacturer: point electronic GmbH
Erich-Neuß-Weg 15
06120 Halle/Saale
Germany

Declare under sole responsibility for issuing this declaration of conformity in relation to the following product:

Product: digital image scanning system 6th generation
Name: PE-DISS6
Description: digital image acquisition system and active scan control for scanning electron microscopes

It also conforms with the provisions of the following EC directives:

- Low-Voltage-Directive 2014/35/EC issued 26.02. 2014
- RoHS-Directive 2011/65/EC issued 08.06.2011
- Ecodesign-Directive (ERP) 2009/125/EC issued 21.10.2009

The following relevant harmonized standards were applied:

- IEC 61010-1:2010
(Safety requirements for electrical equipment for measurement, control, and laboratory use)
- IEC 61326-1:2012
(Electrical equipment for measurement, control and laboratory use - EMC requirements)

Date/place of issue:
Name of Person:
position in company:

Halle/Saale den 19.12.2019
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