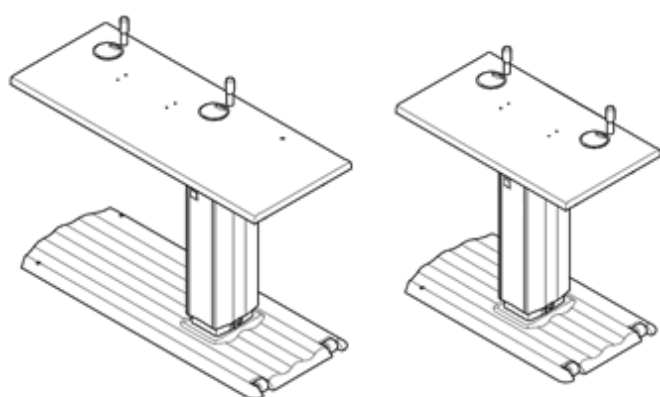


IT 1060.i, IT 760.i

Universal instrument tables


Documentation set





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IT 1060.i, IT 760.i

Universal instrument tables

Instructions for use

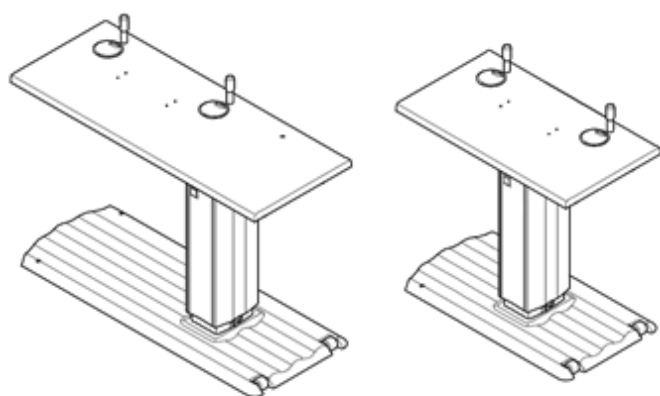


Table of contents

Table of contents	1
Notes on the user manual.....	3
Purpose and availability of the documentation	3
Questions and comments.....	3
Explanation of symbols used	4
Scope of delivery.....	5
Optional accessories.....	5
Country-specific information and labels.....	6
Classification/manufacturer's declaration	6
Intended use.....	7
Notification to manufacturers and authorities	7
Intended user profile	7
Disposal of the product	8
External labels	9
Performance specifications	12
Functional description	12
Service life	12
Description of the device	13
Installation.....	14
Notes on installation and use.....	14
Unpacking	15
Assembling the instrument table	16
Leveling on uneven floors.....	16
Attaching the table mount extension	17
Attaching the patient hand grips	18
Attaching the ophthalmological devices	19
Attaching accessory units	20
Electrical connection.....	22

Operation of the device	23
Adjusting the table height	23
Maintenance and care	24
Replacing the fuses	24
Maintenance	25
Cleaning	25
Testing electrical safety	26
Optional accessories.....	27
Attaching the keyboard tray to the instrument table.....	27
Technical data.....	28
Electromagnetic compatibility	30
Figures	35
Index.....	36

Notes on the user manual

Purpose and availability of the documentation

These instructions for use describe the safety precautions, functions, usage, performance parameters, and care and maintenance measures for the IT 1060.i and IT 760.i instrument tables.

Correct operation of the instrument tables is imperative for their safe and successful functioning. You must therefore ensure that you are thoroughly familiar with these instructions for use before setting up and using the instrument tables for the first time.

The instructions for use and other documentation enclosed with the instrument tables must be kept accessible to users at all times to ensure that the information required for the use of the instrument tables is readily available.

Questions and comments

If you have any questions or comments concerning these instructions for use or the instrument tables, please contact ZEISS Service or your local retailer.

Explanation of symbols used

The symbols used in these instructions for use refer to important safety information that may warn you of possible health risks or fatal injuries and contain useful notes. Whenever you see these symbols, read the accompanying information carefully and observe all safety notes and information in these instructions for use and on device labels.



WARNING

Indicates a hazardous situation that may result in death or serious injury if the appropriate safety precautions are not heeded.



CAUTION

Indicates a hazardous situation that may result in minor or moderate injury if the appropriate safety precautions are not heeded.

CAUTION - PROPERTY DAMAGE

Indicates possible property damage if the appropriate safety precautions are not heeded.



Information, hints and advice for better understanding of the instructions to be observed in the operation of the device.

Scope of delivery

- 1 packaged table (hand grips included)
- 1 documentation set
- 2 washers for the hand grips
- 2 hexagon socket head cap screws, DIN 6912, M4x30
- 1 hexagon screwdriver, angled, DIN 911, size 3 (Allen key)
- 10 cable clips, self-adhesive
- 2 x T6.3A H 250V fuses, 5 x 20 mm IEC 127-2/V fuses (manufactured by SIBA, type 179200)
- 1 cable extension 0.4 m
- 1 cable extension 0.7 m

Optional

- 1 power supply cable 2.5 m (EU), diameter: 1.5 mm²
- Alternatively: 1 power supply cable 2.5 m (EU), hospital grade, AWG 16

Optional accessories

A current and complete list of accessories can be obtained from your retailer.


Country-specific information and labels

Classification/manufacturer's declaration

**WARNING - GENERAL HAZARD**

This device may only be set up, operated, and used for the intended use and in accordance with local country-specific regulations, generally accepted engineering standards, and occupational safety and accident prevention regulations. For further information on the classification, please refer to the section entitled *Technical data*, page 28 ff.

Manufacturer:

 GmbH & Co KG
Otto-Hahn-Str. 3
25337 Elmshorn
Germany

Distributor:

Carl Zeiss Meditec AG
Goeschwitzer Strasse 51–52
07745 Jena
Germany

EMC:

See section entitled *Electromagnetic compatibility*, page 30 ff.

UMDNS no.

13-959

This declaration shall be rendered invalid if changes are made to the product without the manufacturer's authorization.

Intended use

The instrument tables are height-adjustable device tables. They have been designed to support ophthalmological devices and accessories of up to a combined weight of 70 kg for the examination of patients in a sitting position and to supply electrical power to these devices.

The intended use applies exclusively to instrument systems approved by Carl Zeiss Meditec AG.



Instrument table IT 1060.i is suitable for wheelchair users. For treatment, push the front wheels of the wheelchair onto the base plate of the instrument table. Grooves in the base plate will prevent the wheels from rolling away.

Notification to manufacturers and authorities

If a serious incident affecting the user, patient or another person occurs in connection with this medical device, the responsible organization or person responsible must report this incident to the manufacturer or seller of the medical product.

In member states of the European Union, the operator or responsible person must report serious incidents to their competent authority. In all other countries, comparable rules apply where national legislation so requires.

Intended user profile

CAUTION - RISK ARISING FROM OPERATING ERRORS

This device may only be installed, operated, used and maintained by persons who have been properly trained or who have the required knowledge and experience to do so. Please also adhere to the national qualification guidelines applicable in your country.



Disposal of the product



CAUTION - RISK OF ENVIRONMENTAL POLLUTION

The packing material must be kept to be used in case of a future relocation or for repairs.

If you want to dispose of the packing material, please use a recognized collection system for recycling.

The system contains electronic components. At the end of the service life, the device and the batteries installed in it have to be disposed of properly according to national regulations.



Disposal of the device within the EU

In accordance with the applicable EU guidelines and national regulations at the time at which the product was brought to market, the product specified on the consignment note is not to be disposed of via the domestic waste disposal system or communal waste disposal facilities.

For detailed information on the disposal of the product, please contact your local retailer or the device manufacturer, or its legal successor company as appropriate. Please read the latest online information provided by the manufacturer.

If the product or its components are resold, the seller must inform the buyer that the product must be disposed of in accordance with the currently applicable national regulations.

External labels

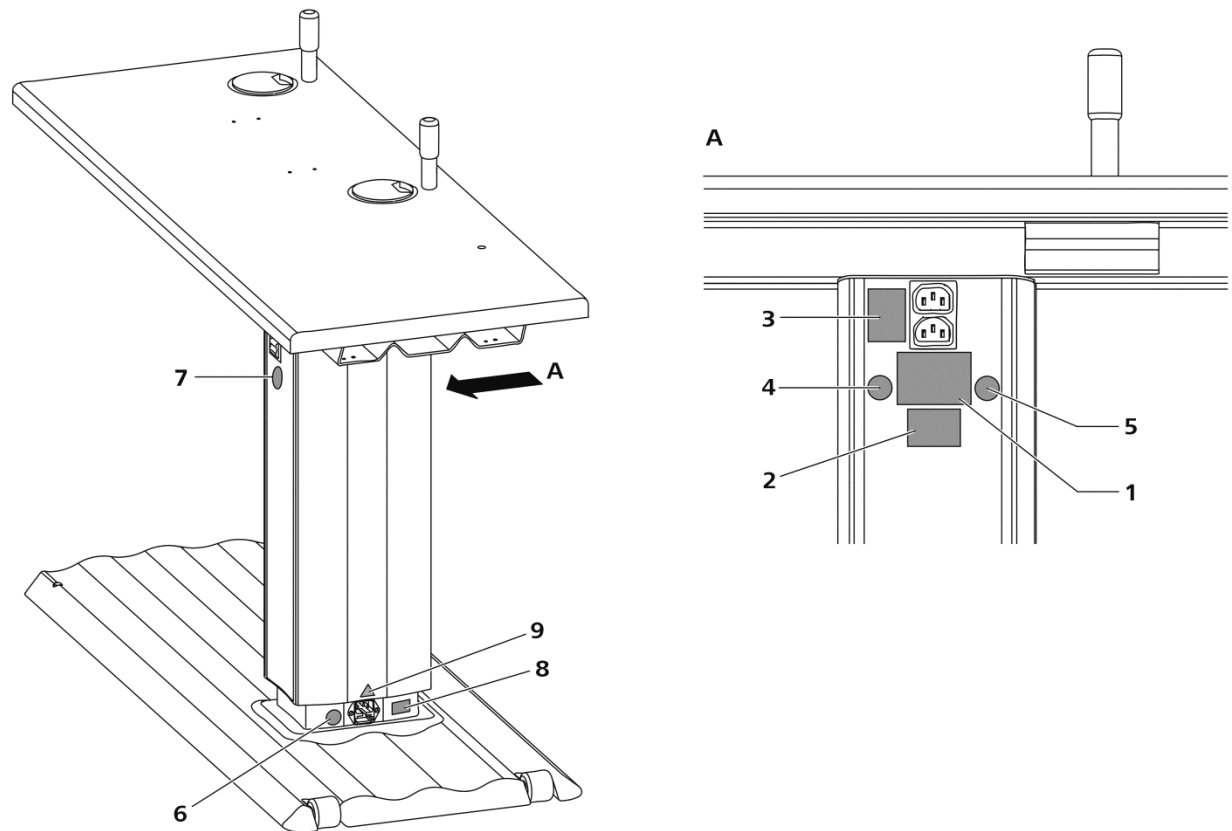
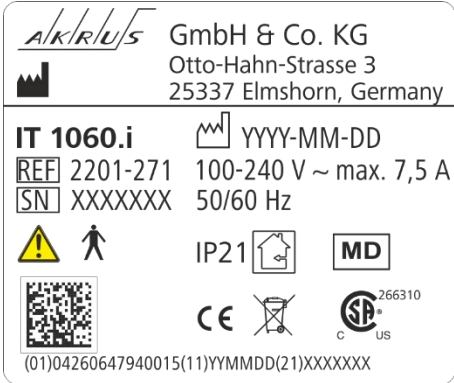
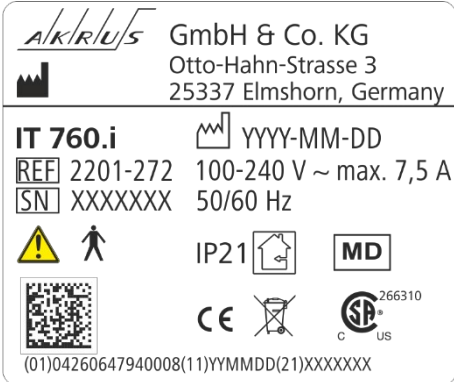










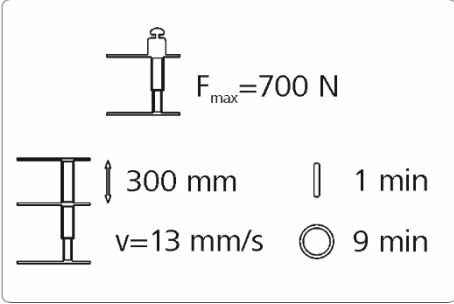




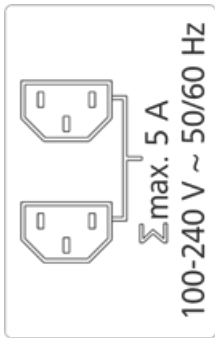




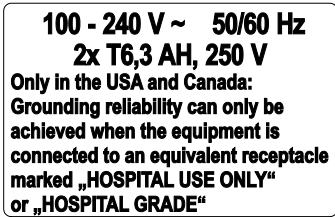



Fig. 1 Warning and information labels on the instrument tables

Pos.	Label	Explanation
1	 	<p>Type label</p> <p> Manufacturer</p> <p> Date of manufacture (YYYY-MM-DD)</p> <p> EU conformity symbol</p> <p> General warning sign</p> <p> Applied part type B conforming to IEC 60601-1</p> <p> AC voltage</p> <p>IP21 Ingress protection rating of casing (protected against foreign solid bodies ≥ 12.5 mm in diameter and water drips from above)</p> <p> Use permitted indoors only</p> <p> Disposal advice for EU</p> <p>REF Catalog/part number</p> <p>SN Serial number</p> <p> CSA approval for USA and Canada (optional)</p> <p>MD Label marking the device as a medical device</p> <p> Unique device identification code (data matrix and plain text)</p>
2		<p> $F_{\text{max}} = 700 \text{ N}$ Lifting power of column: 700 N</p> <p> 300 mm v = 13 mm/s Vertical lift: 300 mm Lifting speed: 13 mm/s</p> <p> 1 min Operating time: 1 min</p> <p> 9 min Rest period: 9 min</p>

Pos.	Label	Explanation
3		Electrical load of device sockets: max. 5 A
4		"Do not sit" prohibition symbol
5		"Do not push" prohibition symbol
6		"Disconnect device from the power supply before opening" information symbol
7		"Observe user manual" information symbol
8		Label for power input/fuse
9		"Risk of crushing" warning label

Performance specifications

Functional description

The instrument tables can be optimally adjusted to the height required for treatment, permitting comfortable and strain-free operation. The height adjustment is continuous and uses a closed, maintenance-free electric motor unit.

The instrument tables are equipped with two castors and two height-adjustable feet to compensate for an uneven floor.

The cables of the ophthalmic devices and accessories can be laid in the table bracket of the instrument table.



WARNING - GENERAL HAZARD

This device must not be modified without the permission of the manufacturer.

If the device is modified, appropriate inspections and tests must be performed to ensure further safe use.

Service life



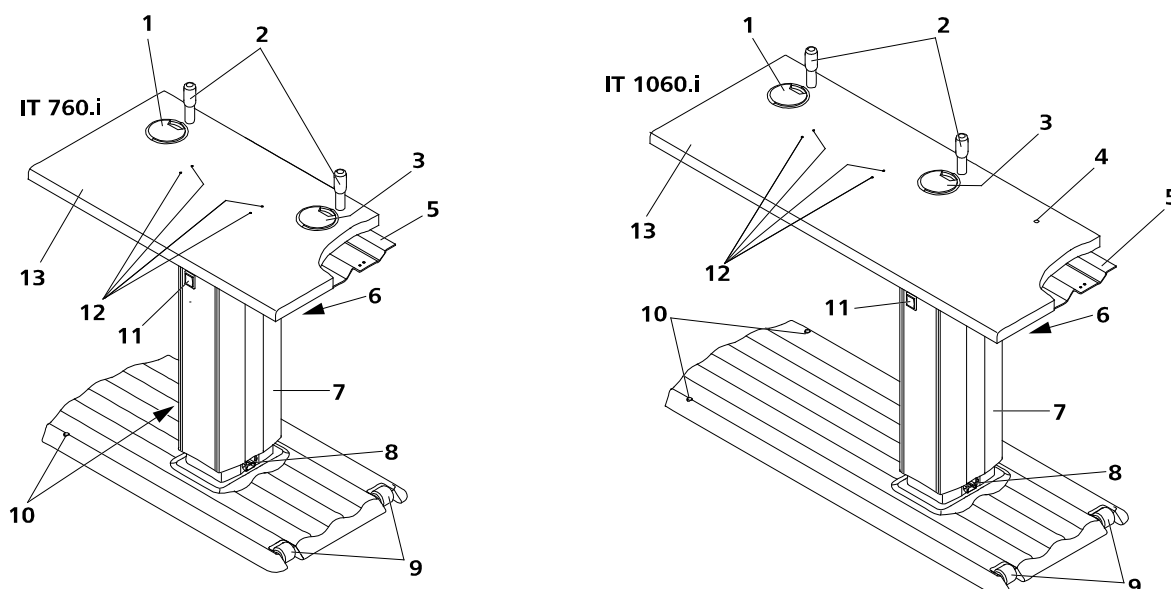
WARNING - GENERAL HAZARD

The development, production and maintenance of these instrument tables, as well as their associated risks, are based on an expected service life of eight years, provided that the device is serviced at the specified intervals.

Modifications to the product or failure to follow the manufacturer's instructions may substantially reduce the expected service life and significantly increase the risks associated with the use of this device.

It is the responsibility of the institution operating this product to make a decision based on the risks and benefits concerning the expiration of the expected service life and the maintenance and inspection intervals specified by the manufacturer.

Description of the device



- 1 Cable duct, 80 mm in diameter
- 2 Patient hand grips
- 3 Cable duct, 80 mm in diameter
- 4 Mounting hole for monitor holder
- 5 Table bracket
- 6 Device sockets
- 7 Lifting column
- 8 Power inlet
- 9 Castors
- 10 Height-adjustable device feet
- 11 Rocker switch for height adjustment
- 12 Mounting holes for instrument base
- 13 Tabletop

Fig. 2 Device setup and control elements of the instrument tables

Installation

Notes on installation and use



WARNING - GENERAL HAZARD

The device may not be stored or operated in ambient conditions other than those prescribed (see *Technical data*, page 28 ff.).

The device must be set up so that the power cable can be disconnected from the power supply quickly and easily without tools.



WARNING - RISK OF ELECTRIC SHOCK

Do not use additional extension cables or portable power strips.

The electrical installation must conform to IEC 60364-7-710 or to the applicable national regulations. This includes the integration of a ground fault circuit interrupter (GFCI).

This device may only be connected to a power supply network that is equipped with a protective ground conductor to avoid the risk of electrical shock.

Ensure that the power supply plug is suitable and certified for the local connection. If the supplied power cable must be replaced, the following specifications must be adhered to as a minimum:

- The protective conductor resistance of the power supply cable must be within the normative limit for the medical product system
- Local certification of the power cable for connection to medical devices
- C19 device plug conforming to IEC 60320



WARNING - FIRE HAZARD

The device is not suitable for operation in explosion risk areas (e.g. with a combustible mixture of anesthetic, cleaning or disinfecting agents and air, oxygen or nitrous oxide).

The electrical installation must conform to IEC 60364-7-710.

The data concerning power consumption on the type plate must be taken into account in the selection of overcurrent protection.

CAUTION - PROPERTY DAMAGE

When setting up and commissioning the device, please ensure that the voltage range stated on the type plate corresponds to the voltage of your power supply. The required fuses have already been installed at the factory in accordance with regulations.

The lifting column must be lowered to its lowest position before transporting the instrument tables.

Do not store or use this device in damp rooms. Do not expose the device to water splashes, dripping water or sprayed water.

In the case of unusual noises or irregularities during the lifting or lowering movement disconnect the device from the power supply and take it out of service. In this event, please contact Zeiss Service.

Unpacking

The instrument table is delivered upright on a pallet.

To unpack the table, proceed as follows:

- Remove the table along with its packaging from the pallet and rotate it by 90° so that the table mount is at the bottom (see Fig. 3).
- Open the packaging and pull the table out from the side.

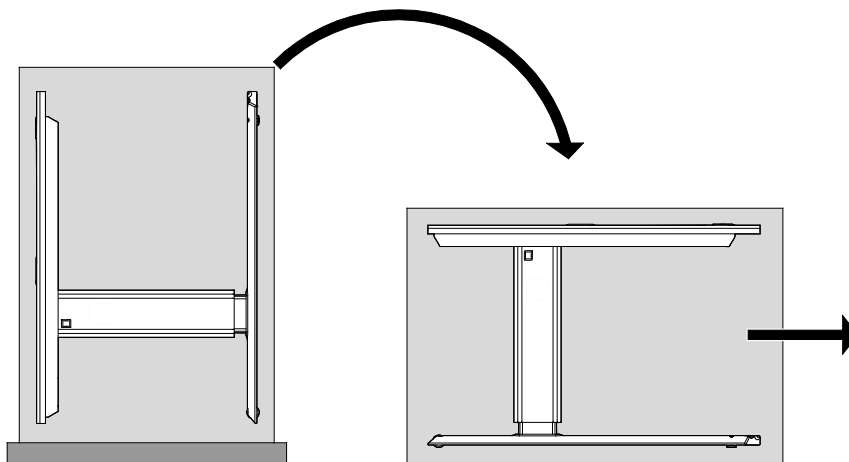


Fig. 3 Unpacking the instrument table

Assembling the instrument table

Instrument tables are delivered completely assembled. Only the patient handgrips and optional accessories (see page 5) need to be attached.

Leveling on uneven floors

Check that the instrument table is firmly positioned on the ground and unable to tilt. Use the adjustable feet (Fig. 4) to adjust the tabletop until it is horizontal. To do this, turn the adjusting screw on the upper side of the base plate into the desired position with a hexagon screwdriver.

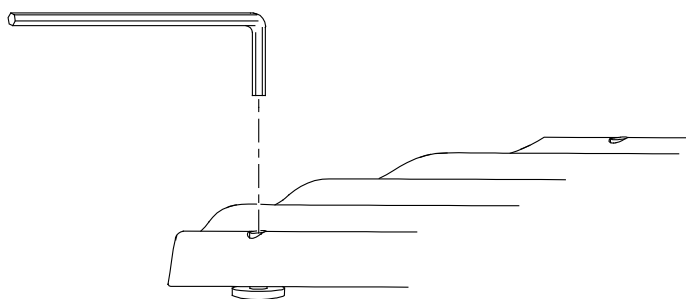


Fig. 4 Height-adjustable device feet

CAUTION - PROPERTY DAMAGE

The table may not be pushed to another location.

Attaching the table mount extension

The two parts of the table mount extension are delivered together with the required screws and a hexagon screwdriver to fit them.

Screw the table mount extension (**2**, Fig. 5) securely to the underside of the instrument table (**3**, Fig. 5) using the four screws (**1**, Fig. 5, e.g. IT 760.i).

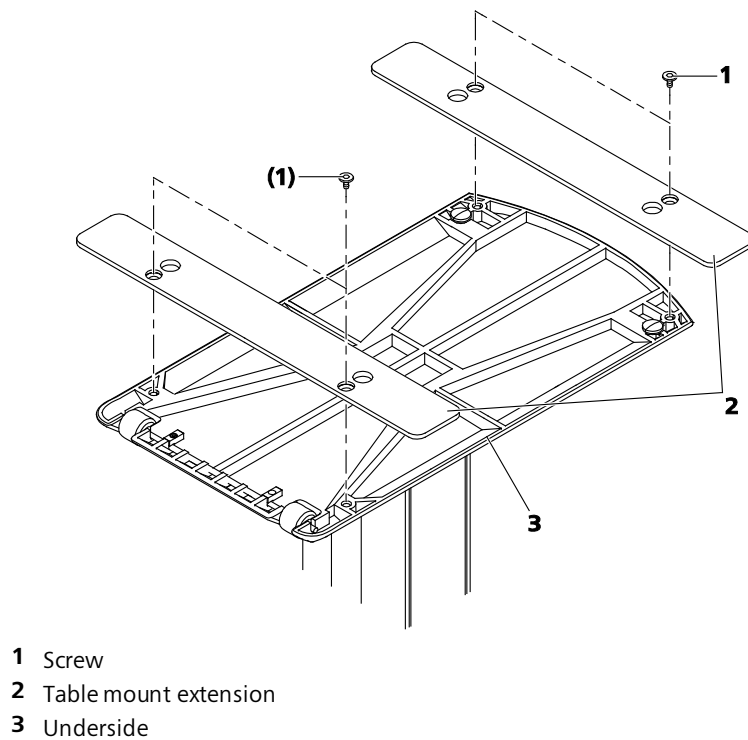


Fig. 5 Attaching the table mount extension

Attaching the patient hand grips

Instrument tables IT 1060.i and IT 760.i are equipped with patient hand grips.

Two drill holes with threaded bushings are provided in the tabletop for mounting each patient hand grip (**2**, Fig. 2).

Attach the hand grips to the tabletop using the hexagon screwdriver provided with the delivery as shown in Fig. 6.

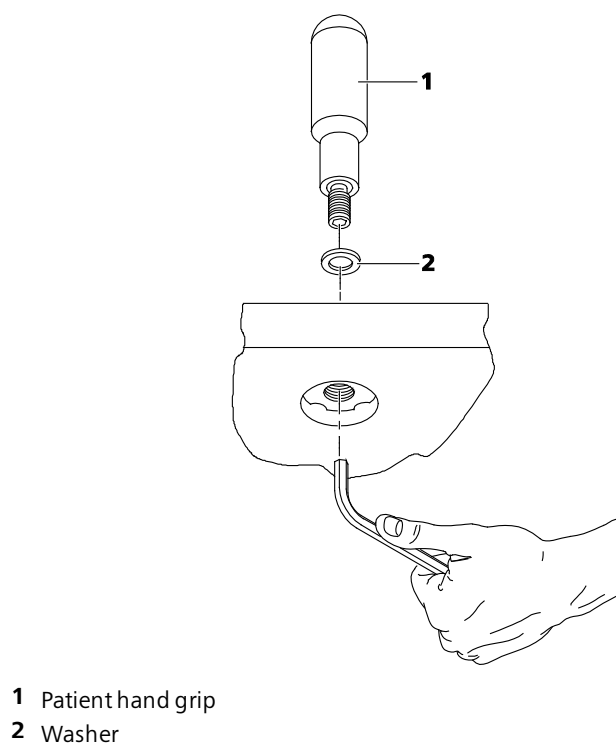


Fig. 6 Attaching the patient hand grips

Attaching the ophthalmological devices

Screw holes (7) with M4 thread are provided for mounting the instrument base of ophthalmological devices for the intended use (12, Fig. 2).

Please follow the relevant safety and installation instructions in the user manuals for these devices.

Cables can be laid in the table bracket (5, Fig. 2) under the tabletop.

WARNING - RISK OF ELECTRIC SHOCK

Connecting electrical devices to the sockets in the lifting column of the instrument table establishes a medical electrical system.

When mounting or changing medical electrical systems during their effective lifetime, the operator must ensure that the safety requirements as per IEC 60601-1-1 or IEC 60601-1 are met!

The sockets of the lifting column are only to be used for the power supply of devices that form part of the medical electrical system.

In order to avoid exceeding the permissible value of the protective conductor resistance for medical electrical systems, use only the IEC extension cables (0.4 m or 0.7 m) supplied to connect such devices to the instrument table.

Only connect devices that are specified as part of the ME system or are compatible with it to the medical electrical system.



CAUTION - MECHANICAL HAZARD

When mounting ophthalmological devices, ensure that the table and instrument together are stable up to an angle of tilt of 10°.



CAUTION - PROPERTY DAMAGE

The power consumption via the sockets in the lifting column has been specified in the technical data.

Attaching accessory units

**WARNING - HAZARD DUE TO MOVING PARTS**

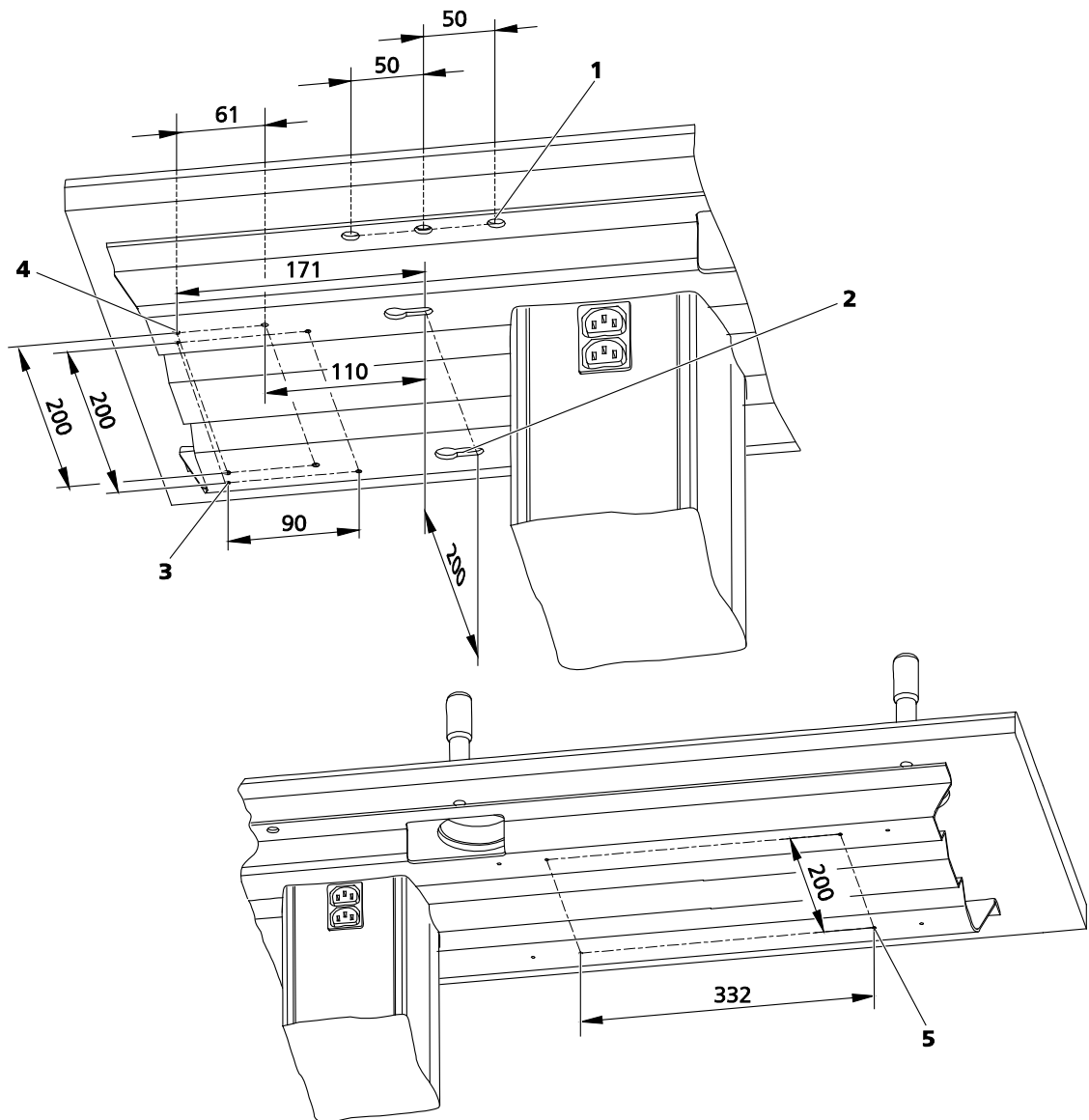
When accessory units are used, please be aware of the limited legroom.

Drill holes have been provided on the table bracket for attaching accessory units underneath the instrument tables.

Using four of the threaded M4 holes (**3** or **5**, Fig. 7), an accessory unit weighing max. 5 kg can be fastened to the underside of the instrument table.

Using the two key-shaped drill holes (**2**, Fig. 7) and two of the threaded M5 holes (**4**, Fig. 7), an accessory unit weighing max. 30 kg can be fastened to the underside of the instrument table.

The three unthreaded holes (**1**, Fig. 7) are intended for the monitor stand. The tabletop already features a drill hole the center position. If necessary, the tabletop may be drilled at the two other positions to change the position of the monitor holder as desired. Drill holes that are not needed can be covered with caps.



- 1 Three drill holes for monitor holder (Ø12 mm)
- 2 Two key-shaped drill holes (Ø10 mm, Ø16 mm)
- 3 Four M4 threaded holes
- 4 Four M5 threaded holes
- 5 Four M4 threaded holes

Fig. 7 Drill holes on table bracket for fastening accessory units

Electrical connection

**WARNING - RISK OF ELECTRIC SHOCK**

Instrument tables are only free of electric charge once the mains plug has been unplugged.

The power input is located on the lower section of the lifting column of the instrument table (8, Fig. 2).

Connect the instrument table to the power supply using the power cable.

Operation of the device

Adjusting the table height

CAUTION - RISK OF CRUSHING

Before operating the rocker switch, ensure that there are no objects or body parts in the path of the tabletop! Special care must be taken with taller patients and wheelchair users.



CAUTION - PROPERTY DAMAGE

Thermal overload protection

The lifting column motor is not intended for continuous use. The maximum switch-on time may not exceed 10 % (1 minute operating time, 9 minutes rest period).

Raise and lower the lifting column only when necessary.

The motorized lifting column allows the tabletop to be adjusted across a broad range of heights.

Adjust the height of the instrument table and any instruments mounted on top to the height of the patient.

- Connect the power supply (see section *Electrical connection*, page 22).
- Operate the rocker switch on the lifting column according to the symbols on the rocker. The table will move in the desired direction: either up (**1**, Fig. 8) or down (**3**, Fig. 8).

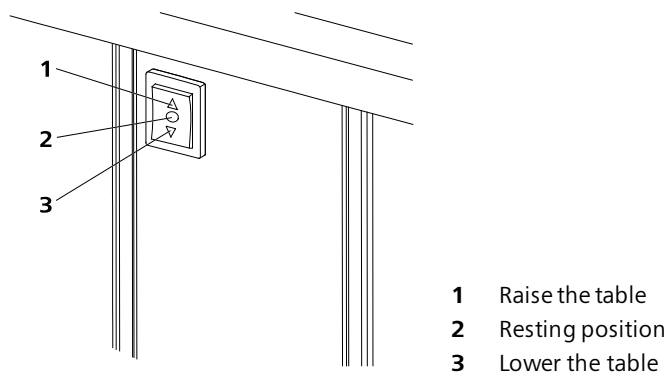


Fig. 8 Rocker switch for adjusting table height

Maintenance and care



WARNING - GENERAL HAZARD

Further maintenance procedures above and beyond those specified in this section (servicing, safety inspections and repairs) may only be carried out by persons authorized by Carl Zeiss Meditec and solely according to the service instructions issued by Carl Zeiss Meditec. To plan and implement these maintenance and care procedures please contact ZEISS Service or your local retailer.

CAUTION - PROPERTY DAMAGE

In the event of malfunction, the device must be shut down and ZEISS Service informed.

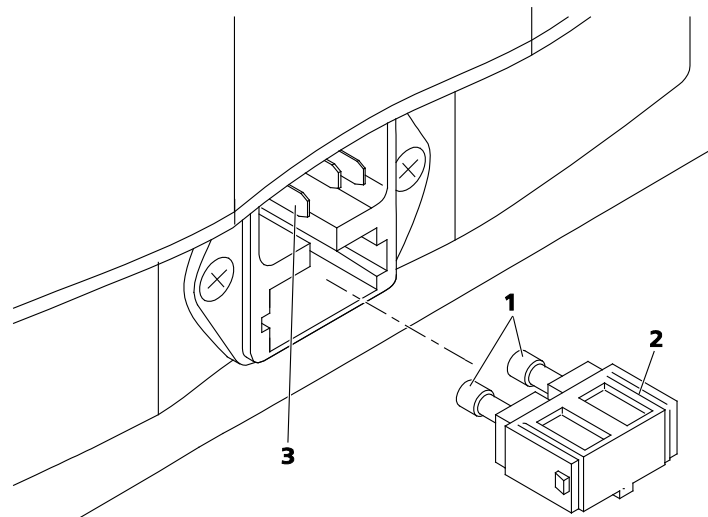
Replacing the fuses



WARNING - RISK OF ELECTRIC SHOCK

Disconnect from the power supply before changing the fuse!

Only use fuses that meet the specifications stated on the type plate.



- 1 Fuses
- 2 Fuse carrier
- 3 Power inlet

Fig. 9 Replacing the fuse

The fuse carrier (**2**, Fig. 9) with two fuses (**1**, Fig. 9) is located below the instrument table's power input (**8**, Fig. 2 or **3**, Fig. 9).

Remove the fuse carrier, replace the defective fuse and re-insert the fuse carrier below the power input.



The fuse carrier can only be removed and re-inserted when the device plug is not connected.

Maintenance

The IT 1060.i and IT 760.i instrument tables are maintenance-free.

Cleaning

WARNING – RISK OF ELECTRIC SHOCK

Prevent moisture from penetrating the device. Disconnect the power cable from the power supply before cleaning or disinfecting the device.



CAUTION - RISK DUE TO CROSS-CONTAMINATION

Contaminated parts with which the patient comes into contact during the examination must be cleaned with a disinfectant approved for this purpose. These parts are resistant to wiping off with cleaning agents categorized as "low" (e.g. suds, quaternary ammonium compounds) and "intermediate" (e.g. alcohol, bleach, iodine); classification in accordance with the disinfectants and efficacy spectrum according to the Center for Disease Control and Prevention, Atlanta, USA.



Only the outer surfaces of the instrument table must be cleaned.

Cleaning must be carried out using a diluted detergent solution. The cloth used must be damp, but not dripping.

Do not use acetone and acetone-based cleaning agents to clean the device, as these could damage the surfaces.

Testing electrical safety



WARNING - RISK OF ELECTRIC SHOCK

To ensure safety, please obtain information on the relevant regulations in your country regarding electrical equipment inspections. These must be adhered to!

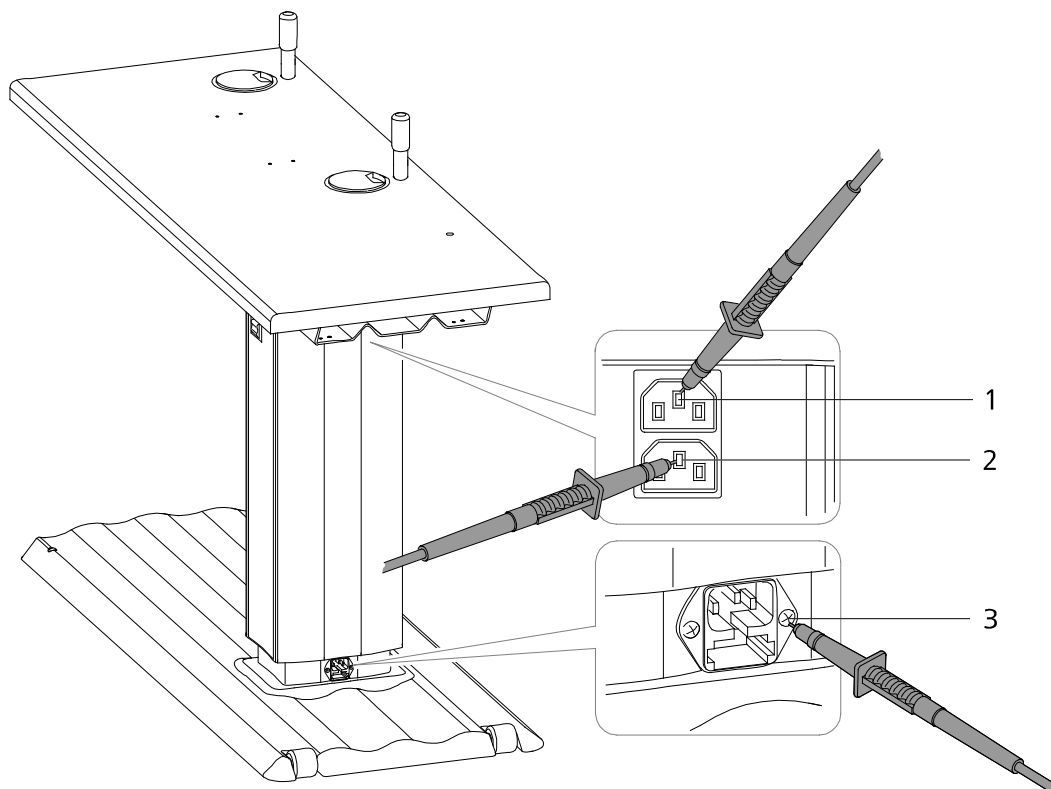
Unless legal requirements dictate otherwise, the operator is advised to carry out an annual inspection in which the electrical safety is tested in accordance with IEC 62353:2014.

When performing the inspection, observe the following instructions or the service instructions issued by Carl Zeiss Meditec.

If you would like Carl Zeiss Meditec to perform the inspection, please contact ZEISS Service or your local retailer.

Perform the following steps in the given order to perform an electrical safety inspection of the device.

- Check the protective ground resistance. For this purpose, connect the device to the measuring instrument using the power cable. To perform a measurement, press the measuring tip to measurement points **1**, **2** and **3** shown in Fig. 10. The measured value may not exceed 0.05 Ω .



- 1 Protective conductor terminal on top socket
- 2 Protective conductor terminal on bottom socket
- 3 Screw-on power input

Fig. 10 Measuring points on instrument table

- After successful measurement, the device leakage current must be measured. This is preferably done using the differential current method while the device is in operation. Press the measuring tip onto the measurement point again (**1**, **2**, **3**, Fig. 10). The measured value may not exceed 0.5 mA.
- Measure the insulation resistance with a test voltage of 500 V. The measured value may not be less than 2 Ω .
- Note down the measured values.

Optional accessories

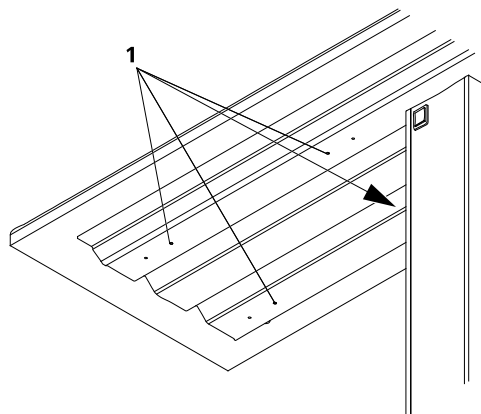
Attaching the keyboard tray to the instrument table

WARNING - HAZARD DUE TO MOVING PARTS

Be aware of limited legroom if the keyboard tray is used.



The keyboard tray is mounted on the underside of the table bracket using the four enclosed screws and hexagon screwdriver. Four threaded holes (**1**, Fig. 11) have been provided on the underside of the table bracket for this purpose.



1 Threaded holes

Fig. 11 Attaching the keyboard tray

Technical data

Essential performance of instrument tables

The instrument table does not have any essential performance functions applicable to IEC 60601-1:2005 + Cor.:2006 + Cor.:2007 + A1:2012.

It is possible, however, that a system consisting of an instrument table and one or more medical devices could produce one or more essential performance functions. An example of an essential performance function would be imperative holding of the lifting position during ophthalmic laser therapy.

The existence of essential performance functions must therefore be re-evaluated when new medical electrical systems are created!

	IT 760.i	IT 1060.i
Order no.	000000-2201-272	000000-2201-271
Rated voltage	100 V – 240 V AC	100 V – 240 V AC
Rated frequency	50/60 Hz	50/60 Hz
Protection class/ingress protection rating	I/IP 21	I/IP 21
Line fuses	2 x T 6.3 A/H250 V 5 x 20 mm, Order no. 149.693	2 x T 6.3 A/H250 V 5 x 20 mm, Order no. 149.693
Permissible total power consumption	6.3 A	6.3 A
Maximum current consumption (briefly)	7.5 A	7.5 A
Power consumption (without devices)	150 VA	150 VA
Electrical capacity of device sockets	Max. 5 A	Max. 5 A
Operating mode	1 min ON/9 min OFF	1 min ON/9 min OFF
Footprint (W x D)	760 mm x 420 mm	1060 mm x 420 mm
Tabletop	760 mm x 420 mm	1060 mm x 420 mm
Minimum table height	710 mm	710 mm
Lift	300 mm	300 mm
Lifting speed	10 to 20 mm/s	10 to 20 mm/s
Weight	35 kg	44 kg
Load from device weight	Max. 70 kg	Max. 70 kg

Ambient conditions for intended use

Temperature	+10 °C to +35 °C
Relative humidity	30% to 90%, non-condensing
Altitude	Up to 3000 m above sea level

Ambient conditions for storage

Temperature	-10 °C to +55 °C
Relative humidity	10% to 95%, non-condensing

Ambient conditions for storage and transport in original packaging

Temperature	-40 °C to +70 °C
Relative humidity	10% to 95%, non-condensing

Electromagnetic compatibility

Special precautionary measures apply to this device with regard to electromagnetic compatibility (EMC). To avoid electromagnetic disturbances that could have a serious effect on the patient or the user, the device may only be installed, operated and serviced in accordance with the instructions for use and using components supplied by Carl Zeiss Meditec.

Ambient conditions for intended use

With regard to electromagnetic compatibility, the instrument table is intended for use in the professional medical work environment.

The instrument table is neither intended to be used in private healthcare, such as e.g. in private, nursing and retirement homes, nor in special environments such as military facilities, heavy industry, medical facilities with high-current devices or radiology facilities (e.g. MRTs).

Restrictions on essential performance

The instrument table has no performance functions that are defined as essential performance functions according to IEC 60601-1. Therefore, no restrictions to the essential performance functions are expected as a result of electromagnetic interference.

It is possible, however, that a system consisting of an instrument table and one or more medical devices could result in one or more essential performance functions. An example of an essential performance function would be imperative holding of the lifting position during ophthalmic laser therapy.



CAUTION – RISK OF ELECTROMAGNETIC RADIATION

With the exception of the equipment combinations described in these instructions for use, use of the instrument table directly adjacent to or stacked with other devices must be avoided as this could lead to faulty operation. If such use is nevertheless unavoidable, this unit and other equipment must be monitored carefully to ensure that they are working properly.

CAUTION – GENERAL HAZARDS

Portable HF communications equipment (including peripheral devices such as antenna cables and external antennas) must not be used within a radius of 30 cm of the instrument table. This includes cables specified by the manufacturer. If this advice is not followed, a deterioration of the performance of the instrument table is to be anticipated.

**CAUTION – GENERAL HAZARDS**

The use of accessories, all types of transducers, and cables not specified in these instructions for use or not sold by Carl Zeiss Meditec as replacement parts may result in higher electromagnetic emissions or reduced immunity of the device and thus lead to faulty operation.

Replacement cables may be purchased from Carl Zeiss Meditec only.



Relevant accessories and cables:

- 1 cable extension 0.4 m
- 1 cable extension 0.7 m

Optional:

- 1 power supply cable 2.5 m (EU), diameter: 1.5 mm²
- 1 power supply cable 2.5 m (US), hospital grade, AWG 16



No regular inspections or maintenance are required in order to maintain electromagnetic compatibility (EMC).

If obvious damage to the device is detected (e.g. housing or cables), remove the device from service immediately, label it clearly as being out of service, and contact ZEISS Service.

It may still be possible to operate the instrument table, but there could be increased emissions and/or decreased immunity.

The following guideline applies exclusively to accessories specified for and delivered with the device by the manufacturer or seller.

Guidance and manufacturer's declaration – electromagnetic emissions	
The instrument table is intended for use in the electromagnetic environment specified below. The customer or the user of the instrument table must ensure that it is used in such an environment.	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions as per IEC 61000-3-2	Class A
Voltage fluctuations/flicker according to IEC 61000-3-3	Complies

Guidance and manufacturer's declaration – electromagnetic immunity			
The instrument table is intended for use in the electromagnetic environment specified below. The customer or the user of the instrument table must ensure that it is used in such an environment.			
Interference resistance tests	IEC 60601 test level	Compliance level	Electromagnetic environment guidelines
Electrostatic discharge as per (ESD) IEC 61000-4-2	±8 kV contact discharge ±15 kV air discharge	±8 kV contact discharge ±15 kV air discharge	Floors must be made of wood, concrete or ceramic tiles. If floors are covered with synthetic material, the relative humidity must be at least 30%.
Fast transient/burst immunity as per IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality must be that of typical commercial or hospital environments.
Surge as per IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Mains power quality must be that of typical commercial or hospital environments.
Voltage dips, short interruptions and voltage variations on power supply input lines as per IEC 61000-4-11	0 % U_T for ½ cycle 0 % U_T for 1 cycle 70% U_T for 25/30 cycles 0% U_T for 250/300 cycles	0% U_T for ½ cycle 0 % U_T for 1 cycle 70% U_T for 25/30 cycles 0% U_T for 250/300 cycles	Mains power quality must be that of typical commercial or hospital environments. If the user requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field) as per IEC 61000-4-8	30 A/m	30 A/m	Magnetic fields in the power frequency must correspond to the typical values that are found in business and hospital environments.
Note: U_T is the AC voltage supply before application of the test levels.			

Guidance and manufacturer's declaration - electromagnetic immunity		
The instrument table is intended for use in the electromagnetic environment specified below. The customer or the user of the instrument table must ensure that it is used in such an environment.		
Immunity test	IEC 60601 test level	Compliance level
Conducted HF disturbances as per IEC 61000-4-6	3 V _{effective value} 150 kHz to 80 MHz	3 V
	6 V _{effective value} ISM bands ^a	6 V
Radiated RF disturbances as per IEC 61000-4-3	3 V/m 80 MHz to 2.7 GHz	3 V/m
Radiated RF disturbances from near fields of wireless communication devices as per IEC 61000-4-3	27 V/m 380 MHz to 390 MHz	27 V/m
	28 V/m 430 MHz to 470 MHz, 800 MHz to 960 MHz, 1.7 GHz to 1.99 GHz, 2.4 GHz to 2.57 GHz	28 V/m
	9 V/m 704 MHz to 787 MHz, 5.1 GHz to 5.8 GHz	9 V/m
<p>Note 1: At 80 MHz and 800 MHz the higher frequency range applies.</p> <p>Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and persons.</p>		
<p>^a The ISM bands (frequency bands used for industrial, scientific and medical purposes) between 0.15 MHz and 80 MHz are 6.765 MHz to 6.795 MHz; 13.553 MHz to 13.567; 26.957 MHz to 27.283 MHz; and 40.66 MHz to 40.70 MHz.</p>		

Figures

Fig. 1	Warning and information labels on the instrument tables.....	9
Fig. 2	Device setup and control elements of the instrument tables.....	13
Fig. 3	Unpacking the instrument table.....	15
Fig. 4	Height-adjustable device feet.....	16
Fig. 5	Attaching the table mount extension.....	17
Fig. 6	Attaching the patient hand grips	18
Fig. 7	Drill holes on table bracket for fastening accessory units.....	21
Fig. 8	Rocker switch for adjusting table height	23
Fig. 9	Replacing the fuse.....	24
Fig. 10	Measuring points on instrument table	26
Fig. 11	Attaching the keyboard tray	27

Index

A

Accessories, optional.....	5
Accessory units, attaching.....	20

C

Classification of the device.....	6
Cleaning	25
Country-specific information.....	6

D

Description of the device.....	13
Disposal.....	8

E

Electrical connection.....	22
Electrical safety.....	26
External labels.....	9

F

Figures.....	35
Functional description.....	12

I

Installation.....	14
Intended use.....	7

K

Keyboard tray	27
---------------------	----

M

Maintenance.....	25
Maintenance and care	24
Manufacturer's declaration	6

O

Operation of the device	23
-------------------------------	----

P

Patient hand grips.....	18
Performance specifications.....	12

R

Replacing the fuses.....24

S

Scope of delivery5

Service life12

Symbols.....4

T

Table height23

Table mount extension17

Technical data28

U

Uneven floors16

Unpacking.....15

W

Warning and information labels.....9



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