



PRÜFTECHNIK

ROTALIGN® touch

Safety and general information

Sicherheits- und allgemeine Hinweise

Informations générales et de sécurité

Información general y de seguridad

Veiligheids- en algemene informatie

Säkerhet och allmän information

Bezpečnostní a všeobecné informace

Informação geral e de segurança

安全信息

This safety and general information document contains safety and information symbols that are relevant while using the system. The document contains detailed laser safety information. The following handling aspects are also dealt with: storage, care, maintenance, disposal and transport. Safety specifications, FCC requirements, notes on data storage, general information, and system warranty form part of this document.

Contents subject to change without further notice, particularly in the interest of further technical development.

Safety and general information

Symbols

	The CAUTION symbol denotes information which must be followed in order to avoid damage to equipment.
	The WARNING symbol denotes information which must be followed in order to avoid personal injury.
	The laser safety warning symbol denotes laser radiation.
	The Note symbol denotes general information and tips regarding use of ROTALIGN touch.
	The Electrical hazard symbol is used to identify electrical hazard and high voltage areas.
	Denotes conformity to relevant Australian standards.
	Denotes conformity to requirements of European Union and European Free Trade Association.
	Denotes conformity to relevant South Korean EMC standards.
	Denotes that any waste electrical and electronics parts of the ROTALIGN touch system including memory sticks must be disposed of according to applicable safety and environmental regulations.
	Denotes that the product is made of parts that are recyclable.

Laser safety

The system uses a Class 2 laser according to the requirements of IEC 60825-1:2007. This laser complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. The laser operates at a wavelength of 635 nm and has a maximum radiant power <1 mW. No maintenance is necessary to keep the product compliant as outlined above.

- ▶ Do not look directly into the laser beam at any time. (The natural blink reaction of the human eye is normally sufficient to protect the eyes from any dangers posed by looking at the laser beam briefly. But as natural blink reaction may fail to occur, care should be taken to avoid staring into the beam.)
- ▶ Do not insert any optical devices into the beam path.
- ▶ The LED on the front of sensALIGN laser illuminates whenever the laser beam is emitted.
- ▶ CAUTION – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



To prevent eye damage and personal injury:

- ▶ Do not point laser directly at persons or animals or indirectly off reflective surfaces.
- ▶ Do not look directly into the laser with optical tools (for example : binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.
- ▶ Use the system only as specified or hazardous laser radiation exposure can occur.
- ▶ Do not open the system. The laser beam is dangerous to eyes. Have the system repaired only through an approved technical site.



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General safety

To prevent possible electrical shock, fire, or personal injury:

- ▶ Read all safety information before you use the system.
- ▶ Carefully read all instructions.
- ▶ Use the system only as specified, or the protection supplied by the system can be compromised.
- ▶ Make sure machines are locked out, tagged out, and cannot be started accidentally or deliberately during maintenance.
- ▶ Do not use the system around explosive gas or vapour.
- ▶ Use only the external mains power supply included with the system.
- ▶ Do not charge the system while inside its carrying case.
- ▶ Do not use the system if it operates incorrectly.
- ▶ Use only specified replacement parts.
- ▶ Have an authorized PRÜFTECHNIK service centre repair the system.



Handling precautions

ROTALIGN touch and the sensALIGN heads (sensor and laser) are precision instruments and should not be dropped or subjected to physical shock.

Storage

Use the provided case to transport ROTALIGN touch and its related components. If the sensALIGN heads are mounted on standard brackets while within the case, the clamping levers must remain in the “open” position and not locked.

If the system is not used for an extended period, remove the related lithium-ion batteries from the components and store both the batteries and the components in a cool, dry and well-ventilated location.

Observe the storage temperatures and humidity specified in the “Safety specifications” section.



Care

All optical surfaces (laser aperture, sensor lens) must be kept clean. Use the supplied lens cleaning cloth. Avoid vigorous polishing to preserve the anti-reflective coatings of the glass elements. ROTALIGN touch computer housing may be wiped clean using a soft cloth dampened with a mild, non-abrasive detergent (use soapy water with only 1% mild soap in water). The display should be cleaned using a soft lint-free dry cloth.

Maintenance

Although the ROTALIGN touch system is essentially maintenance-free, the following points should be observed:

- ▶ The calibration accuracy of both sensALIGN sensor and laser should be checked every two years as indicated by the coloured date wheel label located at the bottom of their respective housings.
- ▶ Please return the sensALIGN heads to your authorized PRÜFTECHNIK service center for inspection by the date indicated.

When returning lithium-ion battery operated ROTALIGN touch system components to PRÜFTECHNIK for inspection, service or repair, ensure that the batteries are not defective. If you suspect a defect in the battery, DO NOT ship the unit with the defect battery back to PRÜFTECHNIK. You may contact your local representative for further information.

The relevant safety data sheets for all PRÜFTECHNIK batteries are posted on the PRÜFTECHNIK website at www.pruftechnik.com. The packaging and dispatch regulations for any given battery are described under section 14 in the safety data sheets.



Disposal

Any waste electrical and electronics parts of the ROTALIGN touch system including memory sticks must be disposed of according to applicable safety and environmental regulations.

Customers in member states of the European Union must adhere to the EU directive 2002/96/EC on waste electrical and electronic equipment (WEEE). PRÜFTECHNIK products that fall under this directive are marked with the shown crossed-out wheelie bin symbol and must be disposed of according to this directive.



- ▶ The marked components must be disposed of with PRÜFTECHNIK or their authorized disposal partners.
- ▶ Such parts must be taken to the nearest collection facility.
- ▶ If you have any questions regarding the WEEE Directive, please contact your local PRÜFTECHNIK sales representative.

Transporting magnetic brackets and other magnetic components

To ensure that stray magnetic fields do not affect the avionics in aircraft, the aviation industry has put forward stringent regulations for air transportation of magnetic material. The magnetic field strength of such components must not exceed specified limits. To comply with this regulation, a cover plate for all PRÜFTECHNIK magnetic components and brackets is available. The plate lowers the magnetic field strength significantly, keeping it well below the required limits and therefore causing no restrictions for air transportation. The relevant safety data sheets are available for download and reference on the PRÜFTECHNIK website at www.pruftechnik.com.

Notes regarding data storage

- As with any data processing software, data may be lost or altered under certain circumstances. PRÜFTECHNIK strongly recommends that you keep a backup or printed record of all important data.
- PRÜFTECHNIK assumes no liability for data lost or altered as a result of improper use, repairs, defects, battery replacement/ failures or any other cause.
- PRÜFTECHNIK assumes no responsibility, directly or indirectly, for financial losses or claims from third parties resulting from the use of this product and any of its functions, such as loss or alteration of stored data.

Safety specifications

Power supply

ROTALIGN touch computer	Lithium-Ion rechargeable battery: 3.6 V / 80 Wh
sensALIGN sensor	Lithium Polymer rechargeable battery: 3.7 V / 1.6 Ah 6 Wh
sensALIGN laser	Lithium Polymer rechargeable battery: 3.7 V / 1.6 Ah 6 Wh

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Temperature range

	ROTALIGN touch computer	sensALIGN sensor	sensALIGN laser
Operating	0°C to 40°C [32°F to 104°F]	-10°C to 50°C [14°F to 122°F]	-10°C to 50°C [14°F to 122°F]
Storage	-10°C to 50°C [14°F to 122°F]	-20°C to 60°C [-4°F to 140°F]	-20°C to 60°C [-4°F to 140°F]
Charging	0°C to 40°C [32°F to 104°F]	0°C to 40°C [32°F to 104°F]	0°C to 40°C [32°F to 104°F]

Camera LEDs (eye safety)

The system camera LEDs are considered Risk Group 1 according to IEC 62471:2006. DO NOT look directly at the operating LEDs, as eye injury may result.

FCC requirements

A) User information according to FCC15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

B) Statement for Class B digital device according to FCC 15.105

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/ TV technician for help.

sensALIGN sensor approvals

Australia	
Brazil	
China	CMIIT ID: 2015DJ1567
Indonesia	Cert-No: 39944/SDPPI/2015 Client-ID: 5055
Mexico	IFETEL: RCPPRAL15-0647
Nigeria	Connection and use of this communications equipment is permitted by the Nigerian Communications Commission
Pakistan	
Russian Federation	
Singapore	Complies with IDA Standards N0817-15
South Africa	
UAE	TRA REGISTERED No: ER39483/15 DEALER No: DA43636/15
USA	
Canada	
Europe	
Japan	

IC requirements

Statement according to RSS Gen Issue 3, Sect. 7.1.3

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Limited warranty

PRÜFTECHNIK warrants that the system which has been purchased from PRÜFTECHNIK is free from defects in materials or workmanship under normal use during the warranty period. If not otherwise stipulated, the limited warranty period for the system is 24 months from date of invoice. This warranty is valid only for the original purchaser, and excludes expendable parts.

EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY, PRÜFTECHNIK MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PRÜFTECHNIK EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERMS OF THIS EXPRESS LIMITED WARRANTY. The system must be returned to PRÜFTECHNIK, or an authorized PRÜFTECHNIK service centre.

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