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New as of: 11.2013

sirona
The Dental Company

SIROInspect

Operating Instructions

English



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1 Before you begin …

Intended use

SIROInspect aids detection and monitoring of carious tooth substance during excavation of previously opened cavities.

Contraindications

Do not **use** SIROInspect in conjunction with caries detection dyes!

Do **not** use SIROInspect if you have red-green color blindness or visual impairment.

Target group

This product is intended only for use by trained dental personnel in dental practices and laboratories.

1.1 Identification of the danger levels

To prevent personal injury and material damage, please observe the warning and safety instructions provided in this document, which are highlighted as follows:

⚠ DANGER

Imminent danger that could result in serious bodily injury or death.

⚠ WARNING

Potentially dangerous situation that could result in serious bodily injury or death.

⚠ CAUTION

Potentially dangerous situation that could result in slight bodily injury.

NOTICE

Potentially harmful situation which could lead to damage of the product or an object in its environment.

IMPORTANT

Instructions for use and other important information.

Tip: Information for simplifying work.

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1.2 Formats and symbols used

The formats and symbols used in this document have the following meaning:

✓ Prerequisite **1.** First action step **2.** Second action step or ➢ Alternative action ↳ Result	Requests you to do something.
See “Formats and symbols used [→5]”	Identifies a reference to another text passage and indicates the relevant page number.
• List	Identifies a list item.
"Command / menu item"	Identifies commands / menu items or a quote.

1.3 Symbol description

RX only

Only for the (treating) physician

CE marking pursuant to Council Directive 93/42/EEC. Verifies the compliance of SIROInspect

This label stands for meeting the requirements of the Canadian Standards Association (CSA)

REF

Sirona reference number

LOT yyxx

Batch number: yy = week / xx = year



Year of manufacture



Manufacturer



This product has only an electronic operation manual



The disassembled handpiece sleeves and fiber optics may be sterilized only in autoclaves with saturated water vapor at minimum sterilization values of 134 °C (273.2 °F), 3 min. holding time, and 2.04 bar (29.59 psi) overpressure.



Refers to Directive 2002/96/EC and EN 50419
Do not dispose with domestic waste



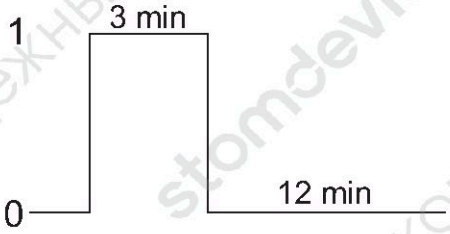
Electrical equipment complies with protection class according to IEC 60601-1

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Type BF applied part according to IEC 60601-1



Intermittent operation

1.4 Abbreviations

LED	Light-emitting diode
V	Volt
mAh	Milliampere hour
mW	Milliwatt
m	Meter
nm	Nanometer
°C	Degree Celsius
°F	Degree Fahrenheit

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2 Safety instructions

Obligations of the user

- ➢ Use only fault-free materials that do **not** deviate from the specified data [→ 11].
- ➢ Protect yourself, patients, and others against any foreseeable dangers. To do this, follow the safety information.
- ➢ Use the equipment as intended.
- ➢ You should always keep these operating instructions within reach for further reference.

Preventing the spread of infections and cross contamination

Prevent the spread of infections and cross contamination between patients, users, and third parties. Sterilize equipment after each patient.

Take the appropriate hygiene measures, e.g. wear protective gloves.

Before startup

Sterilize the new light guide prior to initial start-up.

Periods of non-use

In the event of prolonged non-use, SIROInspect must be cleaned and disinfected in accordance with the instructions. Sterilize the light guide. Observe the instructions for storing the battery [→ 14].

Normalization phase

An adequate normalization phase must be maintained following transport before initial operation.

Glare

Do not shine directly into the eyes.

Do not switch the SIROInspect on until it is in the patient's mouth to avoid glare. The glare is not harmful, but may temporarily impair vision.

UV radiation

LED product of risk class 0. SIROInspect emits UV light. Prevent unnecessary exposure of the oral mucosa to UV radiation.

Flammable materials

Do **not** use SIROInspect in the vicinity of flammable gases.

Fiber optics

Make sure the SIROInspect is in good condition and that the fiber optics fit tightly prior to every use.

If the glass of the fiber optics has shattered or has sharp edges, there is a risk of cutting injuries. Prevent cuts by not using damaged fiber optics.

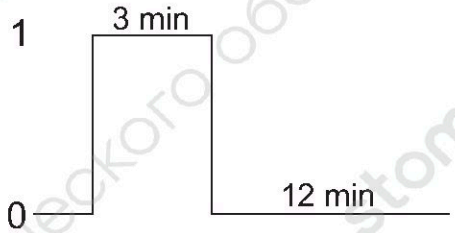
The fiber optics and SIROInspect must not be dropped or knocked. Inspect the fiber optics for damage if they or the SIROInspect have been dropped.

Temperature rise

SIROInspect can heat up to 50° C (122° F) during operation.

Operating mode

Intermittent operation with an on/off time of 3 min/12 min.



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Malfunction or damage

Immediately discontinue use in the case of malfunction or damage. Damaged instruments may cause injury. Notify the dental depot or the manufacturer.

Spare and accessory parts

Use only original Sirona parts or parts approved by Sirona. Safe operation is **not** guaranteed for parts that have not been approved by Sirona.

Only the power supply unit provided may be used.

No unauthorized changes may be made. Position SIROInspect so it is easy to disconnect it from the power line.

If you have any questions, please contact your dental depot or the manufacturer.

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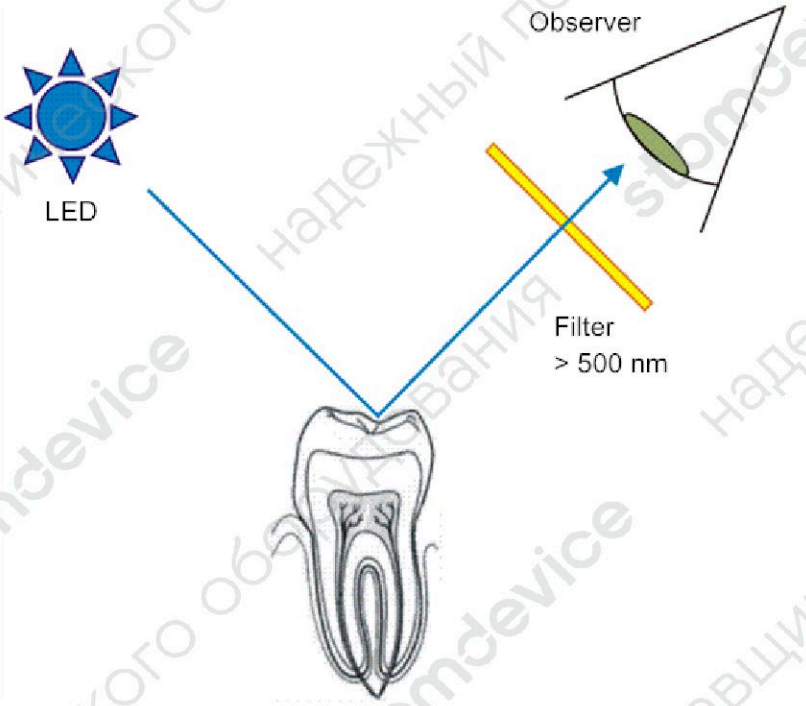
3 Technical description

3.1 Task

FACE ® (Fluorescence aided caries excavation) is a method which enables the practitioner to remove infected tooth material in a targeted manner, based on the special fluorescent properties of the decomposition products resulting from caries-causing bacteria.

3.2 Functionality

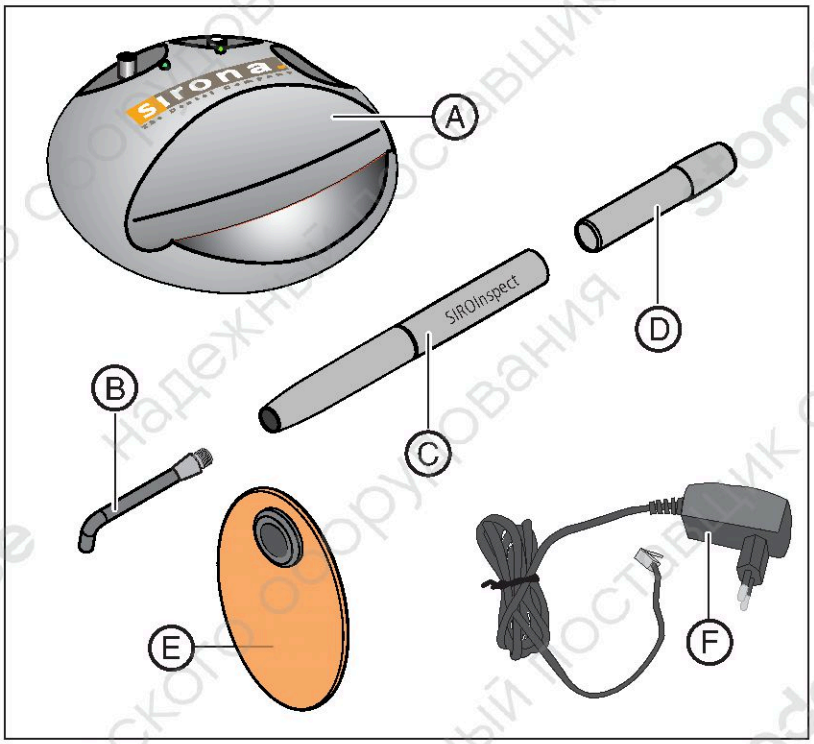
As shown in the illustration below, the tooth is illuminated with an violet light during the excavation. Carious tooth material and healthy dentin is excited to fluorescence. The operator views the cavity through a filter. Shorter wavelengths are thereby filtered out, in particular the violet excitation light. Light with higher wavelengths remains visible through the filter, so that the red-fluorescent sections of a caries can be precisely detected. The red-fluorescent carious tooth material can be easily detected and compared to neighboring green-fluorescent, normal tooth material. The carious tooth material can therefore be precisely removed with a bud bur or scraper.



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3.3 SIROInspect probe design



A	SIROInspect charging station	D	SIROInspect battery
B	SIROInspect 90° light guide	E	SIROInspect attachable filter
C	SIROInspect base body	F	SIROInspect power supply unit

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3.4 Scope of supply

Basic equipment, SIROInspect diagnostic set, REF 63 25 174

Quantity	Designation	REF No.
1	SIROInspect base body	63 75 401
2	SIROInspect 90° light guide	63 75 419
1	SIROInspect charging station	63 75 435
1	SIROInspect EU power supply unit	63 75 567
2	SIROInspect battery	63 75 443
2	SIROInspect attachable filter	64 30 057
1	Clinical guidelines	63 75 492
1	SIROInspect operating instructions	63 79 650
1	SIROInspect brief operating instructions	63 90 848

Special accessories

Designation	REF No.
Complete SIROInspect probe	63 75 534
SIROInspect 140° light guide	63 75 542
SIROInspect 140° light guide (3 pcs.)	63 75 559
SIROInspect 90° light guide (3 pcs.)	63 75 484
SIROInspect clip-on for magnifying glasses	63 75 583
SIROInspect diagnosis goggles (orange)	63 75 518
SIROInspect diagnosis goggles (yellow)	63 75 450

3.5 Technical data

LED and diagnosis goggles

LED radiation output in mW	60 - 250
LED wavelength in nm	approx. 405
Filter of diagnosis goggles in nm	> 500

Storage battery

Battery voltage in V	2.4
Battery capacity in mAh	400

Charger

Voltage in V	6
Maximum power consumption in VA	6

Power supply

Input voltage in VAC	100 - 240
Maximum input current in A	0.2
Input frequency in Hz	50 - 60

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Electrical protection

Protection class	Charger: Class II ⧈ Handpiece: "Internal power supply"
Type of protection against electric shock	Fiber optics applied part: Type BF 

Level of protection against penetration of solid materials and water

Charger	IP20
SIROInspect base body	IP20

Operating conditions

Ambient temperature	10° C to 35° C (50° F to 95° F)
Relative humidity in %	30 - 95
Air pressure in hPa	700 - 1060

Storage and transport conditions

Ambient temperature:	-20° C to +70° C (-4° F to 158° F)
Relative humidity in %	10 - 95
Air pressure in hPa	500 - 1060

CE

This product bears the CE marking in accordance with the provisions of Council Directive 93/42/EEC of June 14, 1993 concerning medical devices.

3.6 Service life of Sirona instruments

When used as intended:

- The battery has a typical service life of up to 12 months
- The light pens have a typical service life of approx. 2 years or 2000 sterilization cycles

No warranty claim can be inferred here, as wear may occur earlier or later than indicated above depending on use, frequency of sterilization, and frequency of maintenance.

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4 Operation

4.1 Connect the power supply unit

⚠ CAUTION

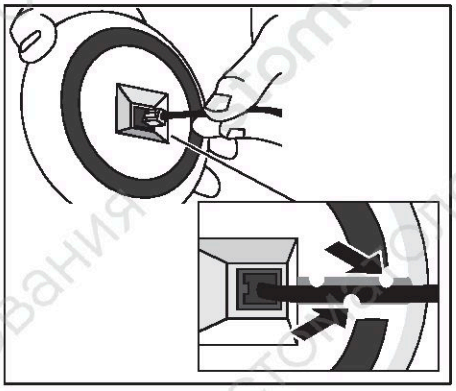
The power supply with the charging station and the SIROInspect handpiece form a medical system. SIROInspect may be operated only with the power supply type GTM41076-0606 from GlobTek. Operation with other power supplies can lead to a defect or destruction of the charging station. If any power supply other than the one recommended is used, the approval of the entire unit automatically becomes void and the warranty granted by Sirona Dental Systems GmbH expires.

⚠ CAUTION

Never touch the contacts of the charging station and the patient at the same time.

IMPORTANT

Check that the power supply voltage corresponds with the voltage data on the power supply unit before connecting the power supply cable.



1. Click the power cable connector into the connecting socket on the bottom of the charging station.
2. Place the cable into the channel adjacent to the connecting socket and clamp the cable in under the holders.

IMPORTANT

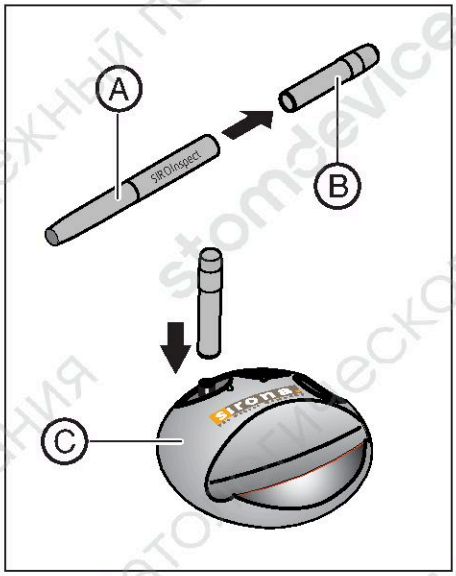
Position the device at least 1.5 m away from the patient on a stable, horizontal surface. Position the unit so it is easy to disconnect it from the power supply.

➢ Pull out the plug to disconnect the unit from the power supply.

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4.2 Replace and charge the battery



The battery can operate continuously for up to 25 minutes. Once the battery has been completely discharged, a full recharge takes approx. 1 hour. The light pen starts to blink when the battery is running low.

The batteries can be stored for 4 months. Once this period has expired, the battery must be charged. If this is not the case, it may cause the battery to have reduced charging capacity or to fail completely. Sirona recommends storing the battery on the charging station.

As a general rule, the batteries included with the delivery have a service period of up to 12 months. After this period, power decreases accordingly. Please check the usage period based on the LOT number (definition of LOT = week week year year e.g. 0212 for calendar week 2, 2012).

⚠ CAUTION

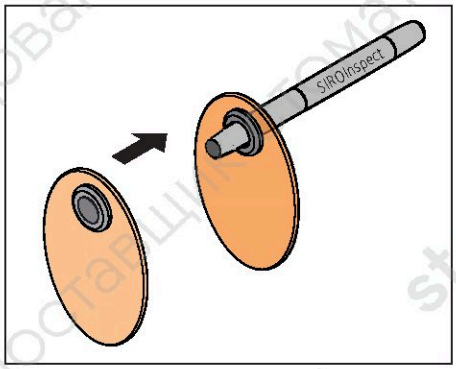
Risk of crushing

When sliding open the battery, the skin on your fingers may become trapped.

➢ Hold the battery as far back as possible.

1. Remove the discharged battery (B) from SIROInspect (A).
2. Insert the charged battery into SIROInspect until it audibly clicks into place.
3. Position the discharged battery onto the charging station (C) until it audibly clicks into place.
   ↳ As soon as the charging light switches on, the battery is fully charged.

4.3 Install attachable filter

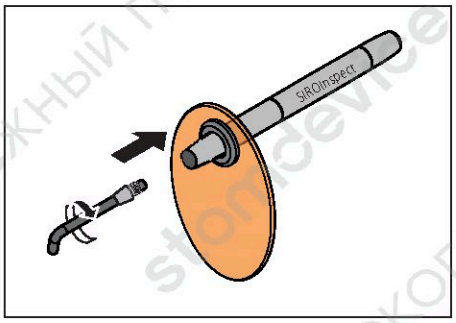


➢ Slide the attachable filter from the front onto the base body. Press the silicone ring with the fingers until the attachable filter is firmly in place.

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4.4 Inserting the light guide

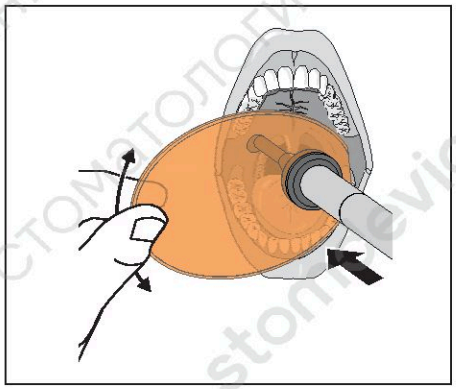


After 2000 sterilization cycles or 2 years which marks the end of the service period, the light guides will have reached their wear limit.

Please check the usage period based on the LOT number (definition of LOT = week week year year e.g. 0212 for calendar week 2, 2012). Please replace the light pen accordingly. The optical output can be reduced and distinction between red and green fluorescence is therefore not so clearly depicted.

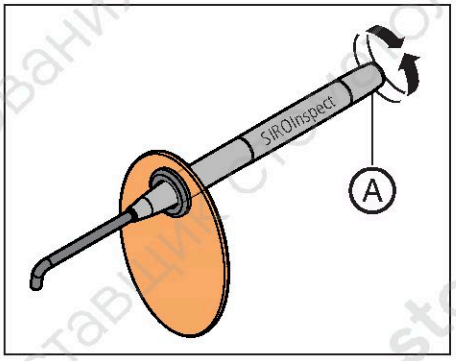
➢ Screw the light pen (90° or 140°) into the base body until it reaches the end stop.

4.5 Align attachable filter



1. Hold the base body behind the attachable filter.
2. Look through the attachable filter to the light guide.
3. Grasp the attachable filter on the outside edge.
4. Turn the attachable filter into the desired position.

4.6 Switching SIROInspect on/off



⚠ CAUTION

Avoid glare!

If the probe is shone directly into the eyes, it may cause blinding. This is not harmful, but can temporarily impair vision.

➢ Switch SIROInspect on only when it is in the patient's mouth.

➢ Never shine SIROInspect directly into the eyes.

1. Hold the SIROInspect in the patient's mouth.
2. Align the attachable filter.
3. Operate the rotary switch (A) ("on - off") with your other hand. A 90° rotation is performed. The direction of the rotation is not important here.

   ↳ SIROInspect is switched on.
4. If the rotary switch (A) ("on - off") is operated again, i.e., rotated either backwards or forwards, the SIROInspect is switched off.

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4.7 Treatment

SIROInspect assists operators when excavating caries in already open cavities and functions as a visual detection and monitoring tool. It works by highlighting carious tooth material in fluorescent red and healthy tooth material in fluorescent green.

SIROInspect cannot assess initial caries.

Use SIROInspect if an initial diagnosis has been made and a decision has already been made on how the caries is to be treated and if the cavity is open.

The fluorescent results of SIROInspect provide extensive information, which can be used for treatment. The final decision as to whether treatment is performed and how long it should last is made by the user.

Avoid external sources of light to ensure that the distinction between red and green fluorescence is clearly maintained. Turn the OP lights away or switch them off while using SIROInspect.

While excavating a deep caries, the fluorescent light may appear brown near the pulp. The reason for this has not been fully established. In this case in particular, a further detection tool (e.g. probe) can be used to decide on the course of treatment.

After removing carious tooth material, we recommend checking the cavity with SIROInspect before finishing the process.

Clinical guidelines illustrate how to use a treatment process and fluorescence. The red fluorescence alters depending on the degree of treatment.

The clinical guidelines can also be downloaded from the Internet.

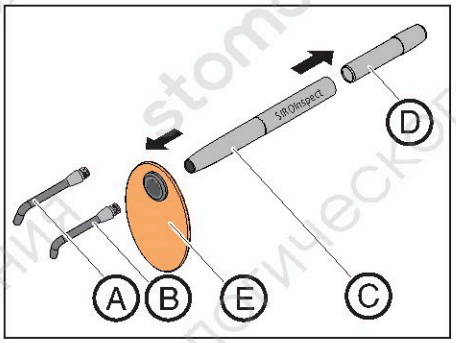
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5 Care and maintenance

5.1 Dismantling SIROInspect

The SIROInspect can be dismantled for cleaning, disinfection or sterilization.



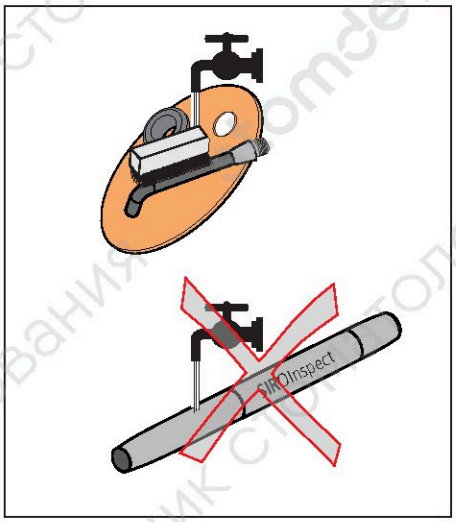
NOTICE

Risk of short circuit

The battery (D) and the base body (C) **must not under any circumstances** be immersed in liquid. These components can only be disinfected by wiping them down.

1. Pull the battery (D) out of the base body (C).
2. Unscrew the light pen (A or B) from the base body.
3. Slide the attachable filter (E) off the base body.
4. Carry out cleaning, disinfection, and sterilization.

5.2 Cleaning the outer surface



Manual cleaning must always be combined with disinfection.

The SIROInspect must **not** be cleaned or disinfected with a machine.

1. Remove the silicone ring from the attachable filter.
2. Clean the light guide, the silicone ring and attachable filter by placing it under running water (< 38 °C, water must be at least drinking water quality).
3. Wipe down the battery and base body with a damp cloth. **NOTICE!** The battery and base body must **not** be cleaned under running water.

NOTICE

Never clean in an ultrasonic bath!

5.3 Disinfecting the surface

The SIROInspect must **not** be cleaned or disinfected with a machine.

SIROInspect can be disinfected by wiping it. **NOTICE!** The battery and base body must **not** be disinfected by immersion.

NOTICE

Never immerse in disinfectants!

NOTICE

Use only disinfectants that comply with the requirements of your national authorities and whose bactericidal, fungicidal and virucidal properties have been tested and properly certified.

Sirona recommends using MinuteWipes from Alpro. In the US: Caviwipes™.

Observe the instructions of the disinfectant manufacturers.

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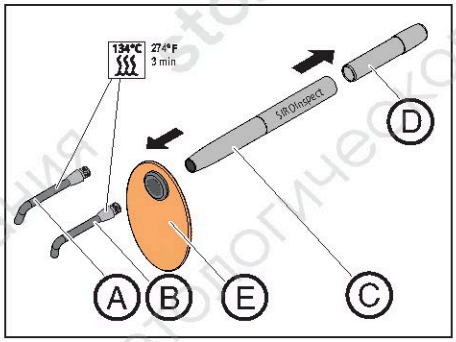
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✓ The disinfectants that are approved in your country must have proven bactericidal, fungicidal and virucidal properties.

➢ Disinfect by wiping the parts down according to manufacturer documentation.

Please observe the manufacturer's instructions for using instrument disinfectants.

5.4 Sterilization instructions



1. Clean and disinfect the components.
2. Sterilize the light guides (A/B) in the autoclave with saturated steam at 134 °C (274 °F) and 3 min. holding time (2.04 bar; 29.59 psi overpressure). **NOTICE! Never** sterilize the battery (D), attachable filter (E) or the base body (C).

Steam sterilizers are permitted, but must correspond either to EN 13060 class B (for example, DAC PROFESSIONAL) or to EN 13060 class S and in addition, must be suitable for the sterilization of dental instruments and products.

NOTICE

Sterilize the light guides in a packing material suitable for sterilization and storage so as to prevent scratching or chipping the light guides in the autoclave.

Do **not** exceed a temperature of 140 °C (284 °F) during the drying cycle. Do **not** abort the drying cycle before it has ended.

Do **not** try to accelerate the cool-down process by placing the light guides in cold water. This could cause the light guides to crack.

⚠ CAUTION

Store all components so that they are protected against contamination.

Sterilize again once the storage period has elapsed.

5.5 Repair

Do **not** make any repairs yourself. Please contact your local dental depot or an authorized customer service department for technical support.

The SIROInspect may be sent in for repair or for safety inspection only in its original packaging, including all accessories. Please disinfect and sterilize SIROInspect and accessories according to the relevant operating instructions before shipping.

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6 Electromagnetic compatibility

NOTICE

SIROInspect complies with all requirements for electromagnetic compatibility according to IEC 60601-1-2: 2007.

Definitions:

Emission (electromagnetic)
When electromagnetic energy is emitted by a source.

Interference immunity
The ability of a device or system to work without errors even if there is electromagnetic interference.

Immunity level
The maximum level of a certain electromagnetic interference that affects a particular device or system, where the device or system remains operative with a certain level of performance.

6.1 Electromagnetic emission

The **UNIT** is intended for operation in the electromagnetic environment specified below.

The customer or user of the **UNIT** should make sure that it is used in such an environment.

Emission measurement	Conformity	Electromagnetic environment – guidance
RF emissions according to **CISPR 11**	Group 1	The **UNIT** uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions according to **CISPR 11**	Class B	The **UNIT** is intended for use in all facilities, including residential areas and those directly connected to a public power supply, which also provides electricity to buildings used for residential purposes.
Harmonics according to **IEC 61000-3-2**	Class A	
Voltage fluctuations/flicker according to **IEC 61000-3-3**	Complies	

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6.2 Interference immunity

The **UNIT** is intended for operation in the electromagnetic environment specified below.

The customer or user of the **UNIT** should make sure that it is used in such an environment.

Interference immunity tests	IEC 60601-1-2 test level	Conformance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) according to **IEC 61000-4-2**	± 6 kV contact discharge ± 8 kV air discharge	± 6 kV contact discharge ± 8 kV air discharge	Floors should be made of wood or concrete or finished with ceramic tiling. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst according to **IEC 61000-4-4**	± 1 kV for input and output lines ± 2 kV for power supply lines	± 1kV for input and output lines ± 2 kV for power supply lines	The quality of the power supply should be that of a typical commercial or hospital environment.
Surge voltages according to **IEC 61000-4-5**	± 1 kV differential mode ± 2 kV common mode voltage	± 1 kV differential mode ± 2 kV common mode voltage	The quality of the line power supply should be that of a typical commercial or hospital environment.
Voltage drops, short interruptions and fluctuations of the power supply according to **IEC 61000-4-11**	<5% U_T for ½ period (>95% drop of U_T) 40% U_T for 5 periods (60% drop of U_T) 70% U_T for 25 periods (30% drop of U_T) <5% U_T for 5 sec. (>95% drop of U_T)	<5% U_T for ½ period (>95% drop of U_T) 40% U_T for 5 periods (60% drop of U_T) 70% U_T for 25 periods (30% drop of U_T) <5% U_T for 5 sec. (>95% drop of U_T)	The quality of the line power supply should be that of a typical commercial or hospital environment. If the user of the **UNIT** requires it to continue functioning following interruptions of the power supply, it is recommended to have the **UNIT** powered by an uninterruptible power supply.
Magnetic field of power frequencies (50/60 Hz) according to **IEC 61000-4-8**	3 A/m	3 A/m	Power frequency magnetic fields should at levels characteristic of those found in the business and hospital environment.
Remark: U_T is the alternating supply voltage prior to application of the test level.			
			Portable and mobile radio equipment are not used at a smaller distance to the **UNIT** and cables that is lower than the recommended working clearance, which is calculated according to the equation suitable for the transmission frequency. Recommended working clearance:

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Interference immunity tests	IEC 60601-1-2 test level	Conformance level	Electromagnetic environment – guidance
Conducted RF interference **IEC 61000-4-6**	3 V_{eff} 150 kHz to 80 MHz[1]	3 V_{eff}	$d = [1.2] \sqrt{P}$
Radiated RF interference **IEC 61000-4-3**	3 V/m 80 MHz to 800 MHz[1] 3 V/m 800 MHz to 2.5 GHz[1]	3 V_{eff} 3 V_{eff}	$d = [1.2] \sqrt{P}$ at 80 MHz to 800 MHz $d = [2.3] \sqrt{P}$ at 800 MHz to 2.5 MHz where P is the nominal transmitter output in watts (W) specified by the transmitter manufacturer and d is the recommended working clearance in meters (m). According to an electromagnetic on-site survey,[2] the field strength of fixed radio transmitters is less than the compliance level in each frequency range.[3] Interference is possible in the vicinity of equipment bearing the following symbol. 

1. The higher frequency range applies at 80 MHz and 800 MHz.
2. Field strength from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile services, amateur radio stations, and AM and FM radio and TV stations, cannot be predicted beforehand with accuracy. An investigation of the location is recommended to determine the electromagnetic environment resulting from stationary HF transmitters. If the measured field strength in the location in which the **UNIT** is used exceeds the applicable RF compliance level specified above, the **UNIT** should be observed to verify normal operation. If unusual performance characteristics are observed, it may be necessary to take additional measures, such as a reorientation or repositioning of the **UNIT**.
3. Over the frequency range of 150 kHz to 80 MHz, the field strength is less than 3 V/m.

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6.3 Working clearances

Recommended working clearances between portable and mobile RF communication devices and the UNIT

The **UNIT** is intended for operation in an electromagnetic environment, where radiated RF interference is checked. The customer or the user of the **UNIT** can help prevent electromagnetic interference by duly observing the minimum distances between portable and mobile HF communication devices (transmitters) and the **UNIT.** These values may vary according to the maximum output power of the communication device as specified below.

Rated maximum output power of transmitter [W]	Working clearance according to transmission frequency [m]		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
	$d = [1.2]\ \sqrt{P}$	$d = [1.2]\ \sqrt{P}$	$d = [2.3]\ \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters whose maximum nominal output is not specified in the above table, the recommended working clearance d in meters (m) can be determined using the equation in the corresponding column, where P is the maximum nominal output of the transmitter in watts (W) specified by the manufacturer of the device.

Remark 1

The higher frequency range applies at 80 MHz and 800 MHz.

Remark 2

These guidelines may not be applicable in all cases. The propagation of electromagnetic waves is influenced by their absorption and reflection by buildings, objects and persons.

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7 Storage and transport conditions

Dispatch

Clean and disinfect the instrument or accessory used on the patient before sending it in.



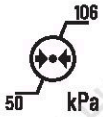
Protect from moisture



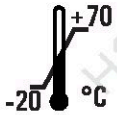
Sensitive contents



Relative humidity



Air pressure



Temperature

After a severe change in temperature, allow sufficient time for acclimatization.

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8 Disposal

To the best of our knowledge, apart from the battery, SIROInspectdoes not contain any environmentally hazardous substances.

- Disinfect the product prior to disposal.
- Please observe the disposal regulations applicable in your country.

Disposing of batteries and charging stations

Batteries must be disposed of according to disposal regulations and statutory provisions in your country.

Remove the battery from the base body of the SIROInspect probe before disposal.



Your product is marked with the adjacent symbol. Within the European Economic Area, this product is subject to Directive 2002/96/EC as well as the corresponding national laws. This directive requires environmentally sound recycling/disposal of the product. The product must not be disposed of as domestic refuse!

Please observe the disposal regulations applicable in your country.

Disposal procedure

Please note that this product is subject to the stipulations in EC Directive 2002/96 governing waste electrical and electronic equipment and must be disposed of in line with these special requirements within the European Union (EU).

Prior to disassembly / disposal of the product, it must be fully prepared (cleaned / disinfected / sterilized).

When disposing of equipment permanently, please proceed as follows:

In Germany:

To initiate return of the electrical device, please send a disposal order to "enretec GmbH".



1. You can find a form for placing a disposal order on the company's homepage (www.enretec.de) under the menu item "Entsorgung elektrischer und elektronischer Geräte" (Disposal of electric and electronic devices). The form can either be downloaded or completed online.
2. Fill the form out with the relevant information and send it as an online order or fax it to enretec GmbH at +49 (0)3304 3919 590.
   Alternatively, for initiating a waste disposal order or for questions, the following contact options are available:
   Telephone: +49(0)3304 3919 500;
   E-mail: pickup@eomRECYCLING.com
   ; Mailing address: enretec GmbH, Geschäftsbereich eomRECYCLING
   Kanalstraße 17, 16727 Velten

↳ Any nonpermanently installed equipment will be picked up at its installation site in the practice. Permanently installed equipment will be picked up curbside at your address by appointment.

All disassembly, transport and packaging costs are to be borne by the owner / operator of the equipment. The disposal itself is free of charge.

Worldwide (outside Germany):

Please contact your local dental equipment specialist for country-specific information on disposal.

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We reserve the right to make any alterations which may be required due to technical improvements.

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