

THE DENTAL
SOLUTIONS
COMPANY™



Sirolnspect

Don't let caries become a repeat offender

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Procedural Solutions

Preventive
Restorative
Orthodontics
Endodontics
Implants
Prosthetics

Enabling Technologies

CAD/CAM
Imaging
Treatment Centers
Instruments

Dentsply Sirona

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The secret: light for an optimal view

Every day you have to make important decisions with regard to caries. This is often not as easy as it sounds. We are now able to simply help you make the right decision during caries excavation: SiroInspect with FACE® technology immediately puts the spotlight on bacterially infected dentine – so all you need to do is drill where the bacteria actually are.

SAFE

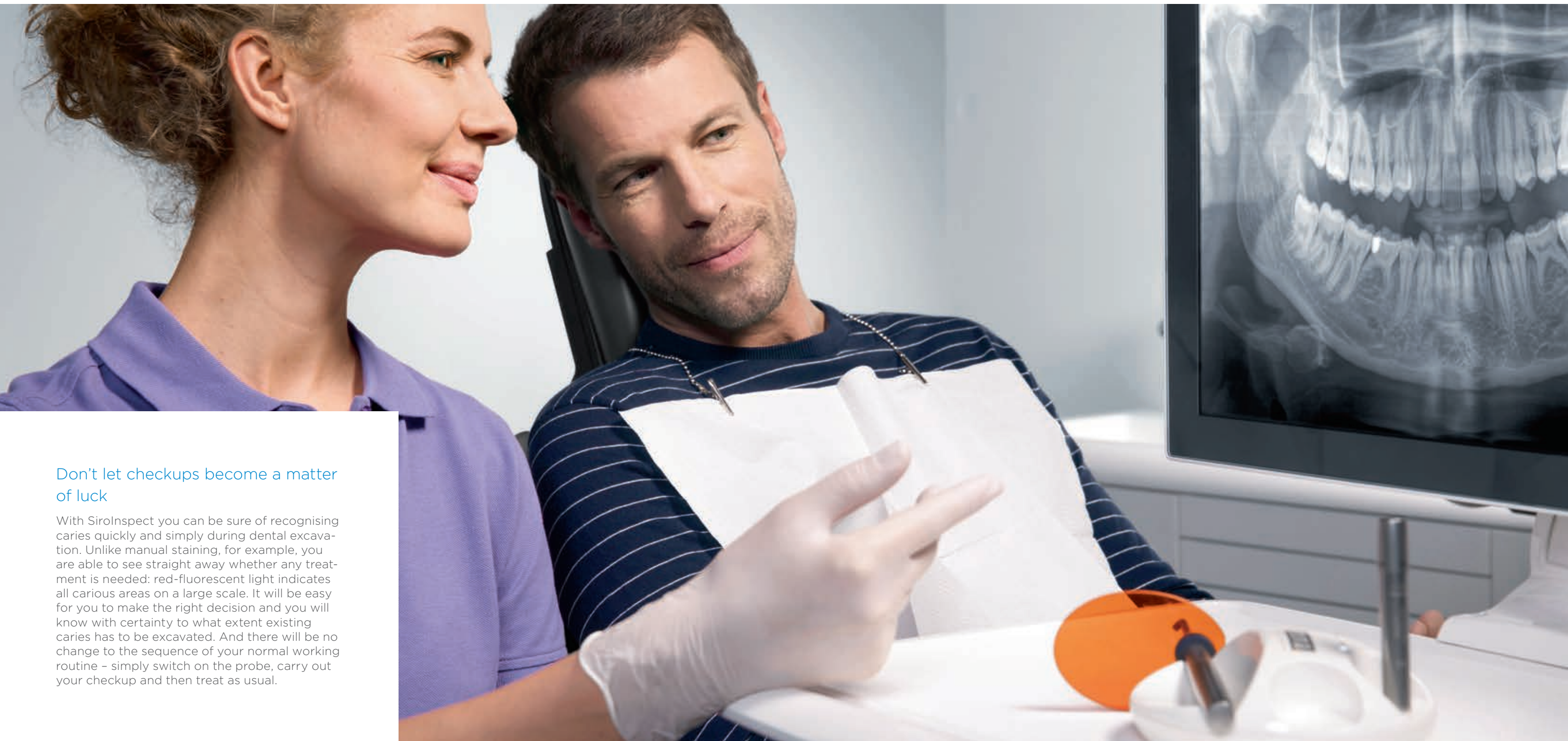
SiroInspect is a reliable aid for your decisions. Making your work minimally invasive and patient friendly.

FAST

It takes a few seconds for stains to work. SiroInspect needs just the simple press of a button – and you will immediately see where excavation is needed.

SIMPLE

SiroInspect is easy to operate and can be flexibly integrated into your workflow. Its cable-free operation enables you to treat in more than one room with a single instrument.



Don't let checkups become a matter of luck

With SiroInspect you can be sure of recognising caries quickly and simply during dental excavation. Unlike manual staining, for example, you are able to see straight away whether any treatment is needed: red-fluorescent light indicates all carious areas on a large scale. It will be easy for you to make the right decision and you will know with certainty to what extent existing caries has to be excavated. And there will be no change to the sequence of your normal working routine – simply switch on the probe, carry out your checkup and then treat as usual.

SiroInspect: the highlights

SiroInspect is the result of many years of research. During its development we paid particular attention to ease of handling as well as technical innovation. SiroInspect with FACE® technology can be easily integrated into your workflow and you will soon see that controlling caries becomes safer and simpler than ever before.

1 Probe

We couldn't have made it easier for you! All you have to do is switch on the probe and start the check-up. Since it runs on a rechargeable battery, you are completely flexible in your movements

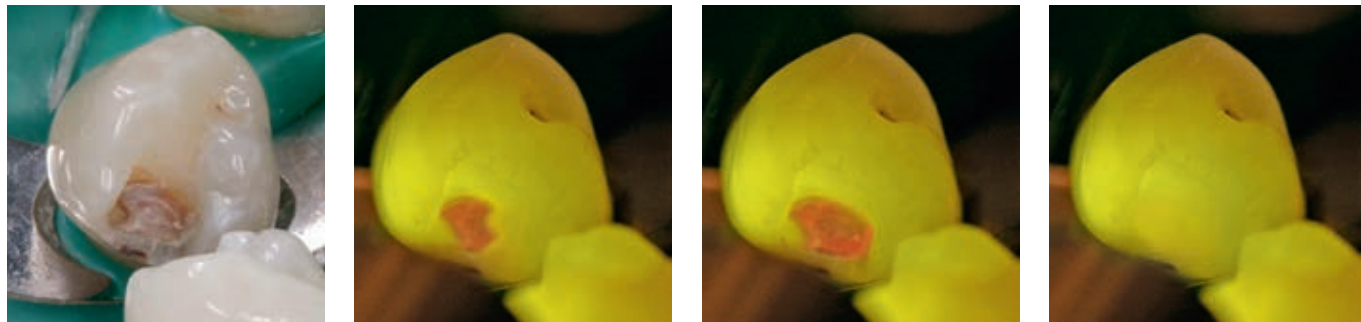
2 Fibre optic light source

The two fibre optic light sources can be sterilized and are very small in diameter, offering you the best view of the area to be prepared. This guarantees excellent accessibility.

3 Battery charger and diagnostic glasses

A space saving battery charger will recharge the two storage batteries in just one hour; with the clip on filter, the whole system is easy to use and flexible. The diagnostic glasses offer a wide range of uses and are also suitable for wearers of glasses.

Red fluorescence for caries
And your check-up becomes a mere “thumbs up”



© Prof. Dr. Wolfgang Buchalla

This is how it works:

During excavation the probe illuminates the tooth with violet light (approx. 405 nm). This stimulates both decomposition products of caries bacteria as well as healthy dentine to fluoresce. The “clip on filter” supplied with the SiroInspect filters out short wavelengths below 500 nm. Light of higher wavelengths remains visible thanks to the filter. In this way, red fluorescing carious areas can be recognised both quickly and safely. Healthy tooth material differs in this respect by fluorescing green.



1



2

3

SiroInspect: tried and tested and found to be outstanding

Our innovations are subjected to numerous tests before being brought to the market. SiroInspect and FACE® technology were also put through their paces in various scientific trials and user studies to check for any teething problems. The result: SiroInspect with FACE® technology works with greater reliability than other control methods for the prevention of secondary caries.

98%

of red-fluorescing dentine could clearly be brought into association with porphyrins, the decomposition products of caries bacteria.*

* Buchalla, Porphyrins Are the Cause of Red Fluorescence of Carious Dentine Verified by Gradient Reversed-Phase HPLC, 2008.



“With SiroInsect I was able to make the right decision. In this respect I feel much more self-assured.”

Dr. Simone Suppelt, Alsbach-Hähnlein



“Actually, with SiroInspect I work exactly as I did before - but now with greater certainty and with overall better quality.”

Dr. Johannes Heimann, Frankfurt



“Whereas I used to have to wait for the stain to work, today I am already halfway through the treatment.”

Dr. Michael Dunker, Mannheim



“Fits perfectly to our minimally invasive therapy concept. I simply switch it on and can see directly if the cavity is free of caries.”

Dr. Bernhard Kirn, Freiburg

Advantages over conventional methods

System	Sensitivity		Specificity	
	Study*	Study**	Study*	Study**
SiroInspect with FACE®-technology	94 %	100 %	83 %	91 %
Tactile probe	76 %	89 %	65 %	77 %
Caries detector	65 %	78 %	17 %	27 %

* Lennon, Residual Caries Detection Using Visible Fluorescence, 2002. ** Buchalla, Luminescence Assisted Caries Excavation, 2004.

Scope of delivery

Lieferumfang	Ref.
SiroInspect (incl. probe, battery charger with power adapter, 2 rechargeable batteries, 2 fibre optic sources 90°-sterilizable, 2 clip on filters, clinical guideline)	63 25 174
SiroInspect GB	64 08 749
SiroInspect USA, CA	64 08 756
SiroInspect AUS	64 08 764

The accessories*

Accessories	Ref.
Battery charger	63 75 435
Probe, complete (body, fibre optic source 90°, rechargeable batteries, 2 clip on filters)	63 75 534
Body (without fibre optic source, without rechargeable batteries)	63 75 401
Fibre optic source 90°	63 75 419
Fibre optic source 90° (pack of 3)	63 75 484
Fibre optic source 140°	63 75 542
Fibre optic source 140° (pack of 3)	63 75 559
Diagnostic glasses (orange)	63 75 518
Rechargeable batteries	63 75 443
Clip on filter (pack of 2)	64 30 057

* This product is supplied without a paper version of the instruction manual. This can be easily downloaded in pdf format at td.sirona.com.