

## Features of Inspire

### 3in1

**Camera provides more than 1 way to detect intraoral diseases**  
3 in 1 feature: Dental camera, Transillumination, and Fluorescent technology all in one device.

### Multi function

**Seamless treatment**  
User can use all the device functions of an intraoral camera, transillumination, and fluorescent seamlessly by simple key press without stopping treatment.

**Able to select appropriate disease detection mode**  
User can take a single image or multiple images at once depended upon the mode they choose.

### Image quality

**Macro to infinity**  
Camera is able to focus from macro mode (close) to infinity that includes a full arch and face shot.

**Auto-focus**  
Camera is able to focus in any position not only inside of oral cavity but also full arch and face shot.

**FHD image support**  
The device shows FHD (1080p) in live image supported by a 5M sensor.

**Color impressions**  
Adjust the color impression on camera to fit different monitors or screen.

**Black&White function**  
Capture and save X-ray film image to PC

### Ergonomic design

**Dental handpiece design**  
Most familiar design for dentists.

**Metal body case**  
Metal body case increases product durability.

**Slim head & Retraction head design**  
Slim head design makes it easier to approach the oral cavity with camera. And retract patient's tongue and cheek to get better image.

**Dual capture buttons**  
Capture buttons are placed on the top and bottom side of camera to make for an easy capture in any position

**LED indicators**  
LED indicators show the device status and mode.

### Convenience

**Mouse function**  
Built-in mouse function for user convenience.

**Zoom function**  
Ability to enlarge the image with zoom feature to support user convenience.

**Support twain driver**  
Support twain driver allows for use in almost any dental imaging software.

**Software compatibility**  
Able to be used with almost any dental imaging software in the market.

**Detachable USB cable**  
Detachable USB cable makes it easy to move the camera to other dental chairs.

### Good Doctors Wireless Solution

Good Doctors Wireless Solution	Caries Detector	Wireless Intraoral Camera	Wired Intraoral Camera	Apex Locator	Curing Light
IC-AD	IC-WHCD100 IC-DCCDU75	IC-WHT60 IC-DCAM70 IC-EZAM80	IC-WHM400 IC-EZAU81 IC-DCCU74 IC-DCAU71	AL-DF420 AL-DF10	CL-DC20 CL-DF40 CL-DF41 CL-DL10



### Zoom function

Ability to enlarge the image with zoom feature to support user convenience.



\* Need to install "Zoom function" program on the PC.



### Software compatibility

Able to be used with almost any dental imaging software in the market.



## 1 Specification

Model	IC-WHCD100					
Camera	Operation voltage	5V 600mA	Measurement	Approx. 128 x 21.5 x 32 mm	Weight	Approx. 61g
	Resolution	FHD (1920x1080)	Sensor	5M Sensor CMOS / Liquid	Focusing	Auto Focus
	Focus range	Macro to Infinity	USB cable	length	Approx. 3 M (9.8ft)	

## 2 Recommended PC system

PC system:	3.3GHz CPU, 4GB RAM
OS:	Windows 7
USB port:	USB 2.0

The wireless pack make the product to be wireless dental disease detector.



**GoodDrs**



# Multipurpose Intraoral Disease Detector

AutoFocus Dental Camera with Mouse



Macro to Infinity Dental Camera Mode  
**MI mode**

**Macro to Infinity**  
Camera is able to focus from macro mode (close) to infinity that includes a full arch and face shot.



**FHD**  
The device shows FHD (1080p) in live image supported by a 5M sensor.



**Color impressions**  
Adjust the color impression on camera to fit different monitors or screen.

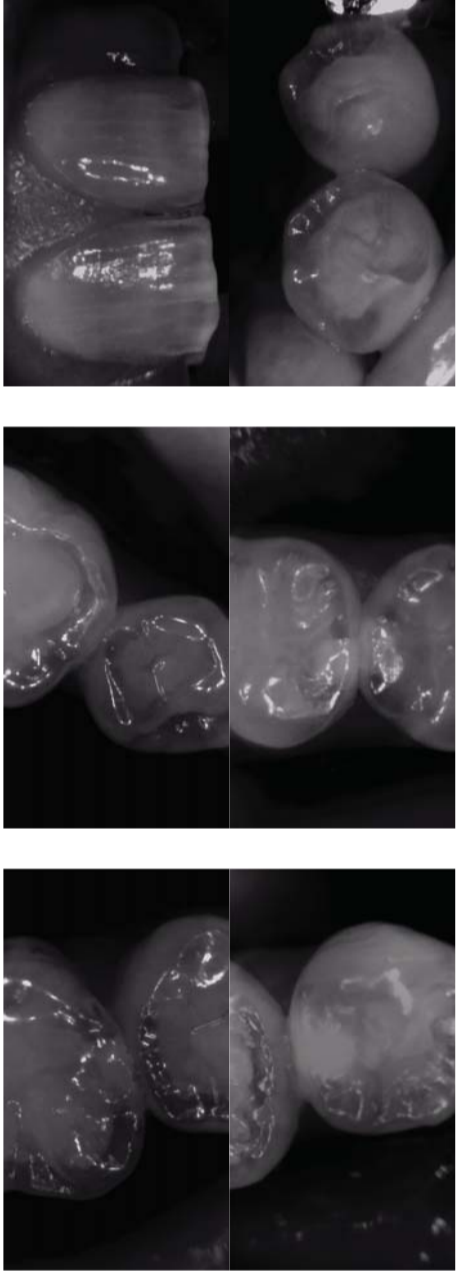


Same color chart image with xrite



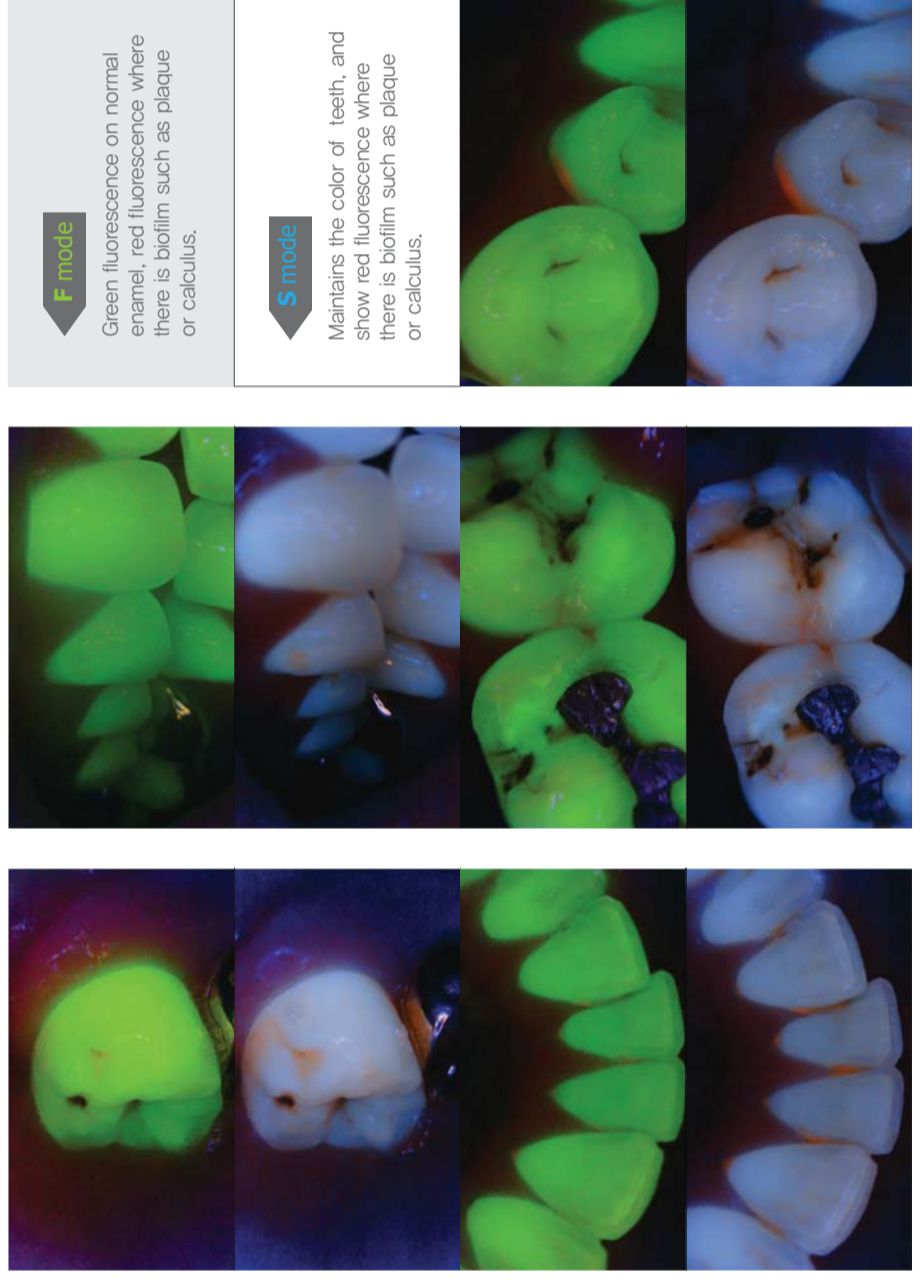
Transillumination mode  
**TR mode**

- This camera mode provides the ability to examine the inside of enamel by use of a high transparency light source.
- Useful for detecting proximal caries and micro cracks.
- Advanced technology that allows for an image showing enamel penetration without x-ray radiation.



Fluorescence mode  
**FL mode**

- Disease detection technology using natural fluorescence that occurs under specific illumination.
- The FL mode provides simple ways to detect disease: User will see green fluorescence on normal enamel and red fluorescence where there is bio-film such as plaque or calculus.
- Florescence loss where there is early caries (white spot).
- The FL mode provides the ability to detect early caries, tooth crack, and secondary caries.
- The FL mode is able to detect residual composite resin.



**F mode**

Green fluorescence on normal enamel, red fluorescence where there is biofilm such as plaque or calculus.

**S mode**

Maintains the color of teeth, and show red fluorescence where there is biofilm such as plaque or calculus.

3 in 1 mode  
**Multi mode**

**Limits on each detection mode**

Each disease detection method has advantages as well as has limits.

**MI mode**  
Macro to Infinity  
Dental Camera mode

Hard to detect early stage caries.

**TR mode**  
Transillumination mode

No quantitative measurement is produced

Subjective interpretation of whether a dark area on the gray-scale images is caries or a dental abnormality leads to many false positives

**FL mode**  
Fluorescence mode

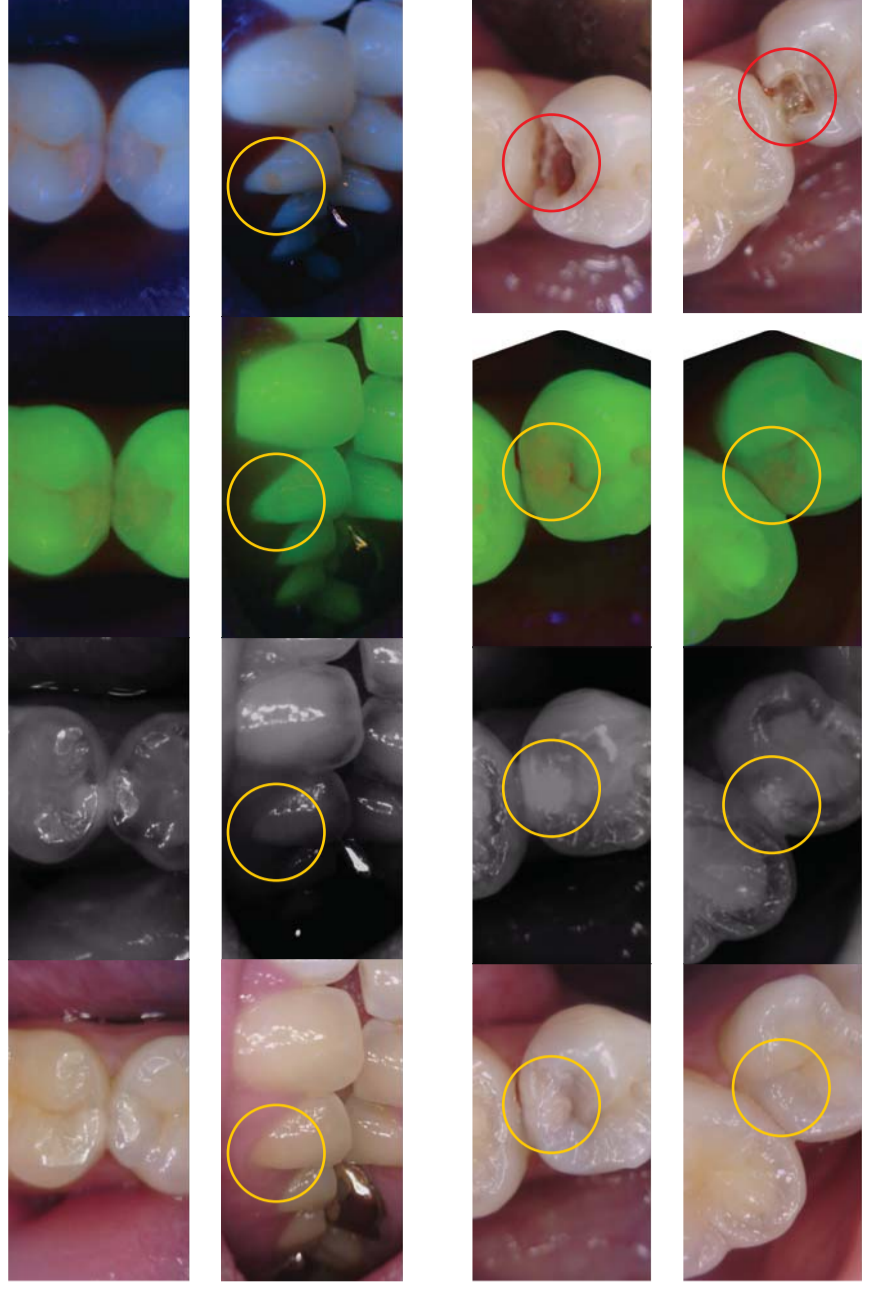
Bacterial porphyrins, stains, tartar, food debris, and prophylaxis paste all fluoresce under the wavelengths used in these device, whether or not caries is presents, they can lead to false positive readings and unnecessary treatment. In addition,

Streptococcus mutans and lactobacilli, the key bacterial initiators of caries, do not have porphyrins that fluoresce when exposed to the light emitted by the device.

Inspire takes advantages of each disease detection mode (MI, TR, FL), and to overcome limits of each detection mode it provide 3 in 1 shooting for comparative analysis.

**3in1**

3in1 shooting example.



\* 3in1 shooting may not be supported depending on dental imaging software