Features of *Inspire*

Multi function

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.

Seamless treatment
User can use all the device functions of an intraoral camera, transillumination, and flourescent 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.

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

FHD **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 **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.

Twain **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.

Dental Camera		Curing Light		Apex Locator	
-IC-WHT60	-IC-WHW61	-CL-DLT30	-CL-DL10	-AL-DF10	-AL-DFA20
-IC-DCAM70	-IC-DCAU71	-CL-DC20	-CL-AT24		
-IC-EZAM80	-IC-EZAU81				
-IC-WHMA90	**-IC-WHCD100**				

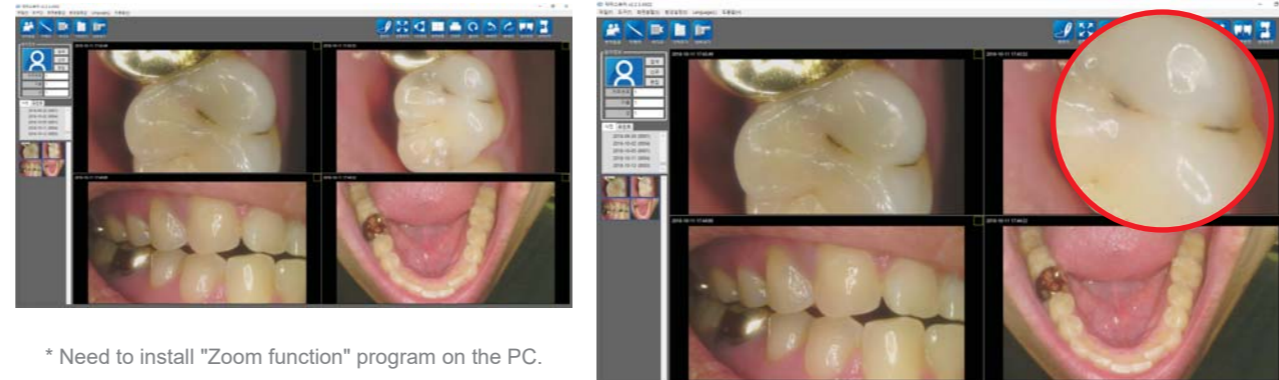**Zoom function**
Ability to enlarge the image with zoom feature to support user convenience.

* 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	Power source	5V (USB power)
	Size	Approx. 129 x 21.5 x 32 mm
	Weight	Approx. 61g (2.2oz)
	Sensor type	5M CMOS sensor
	Lighting	LED
	Focusing	Auto-focus
	Focus range	Macro to infinity
USB cable	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

Full HD 1080p

Inspire

Multipurpose Intraoral Disease Detector

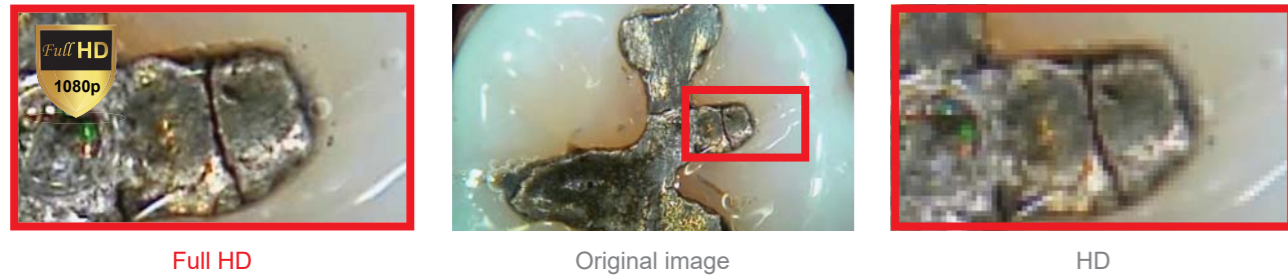Autofocus Dental Camera with Mouse

CE

Patent pending
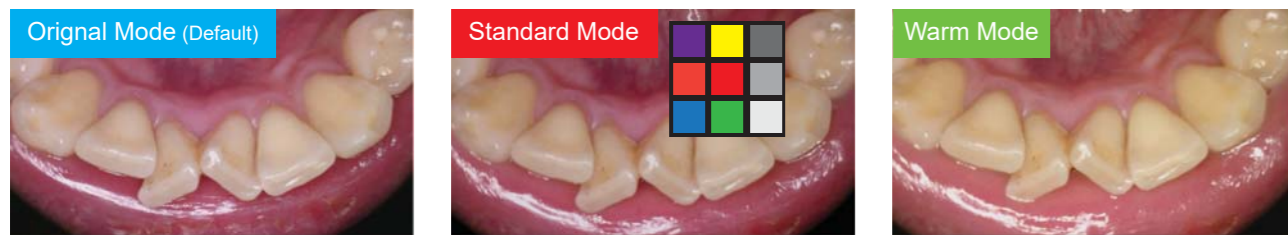
Macro to Infinity Dental Camera Mode
MI mode

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

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

Full HD   Original image   HD

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

Orignal Mode (Default)   Standard Mode   Warm Mode

Same color chart image with x·rite

Slim head size
Capture button
Efficient brightness
Dental handpiece type design
Capture button

Retraction head design
Right button   M button
① ② ③
LED indicators   Left button   Detachable USB cable
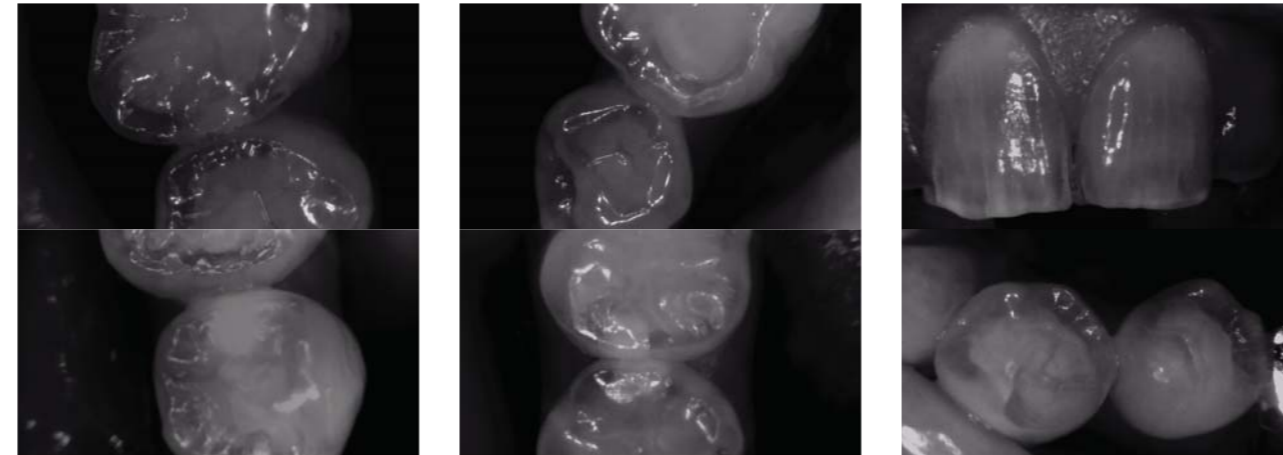
Transillumination mode
TR mode

· 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.   · The FL Mode supports 2 mode types: F mode and S mode.

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.
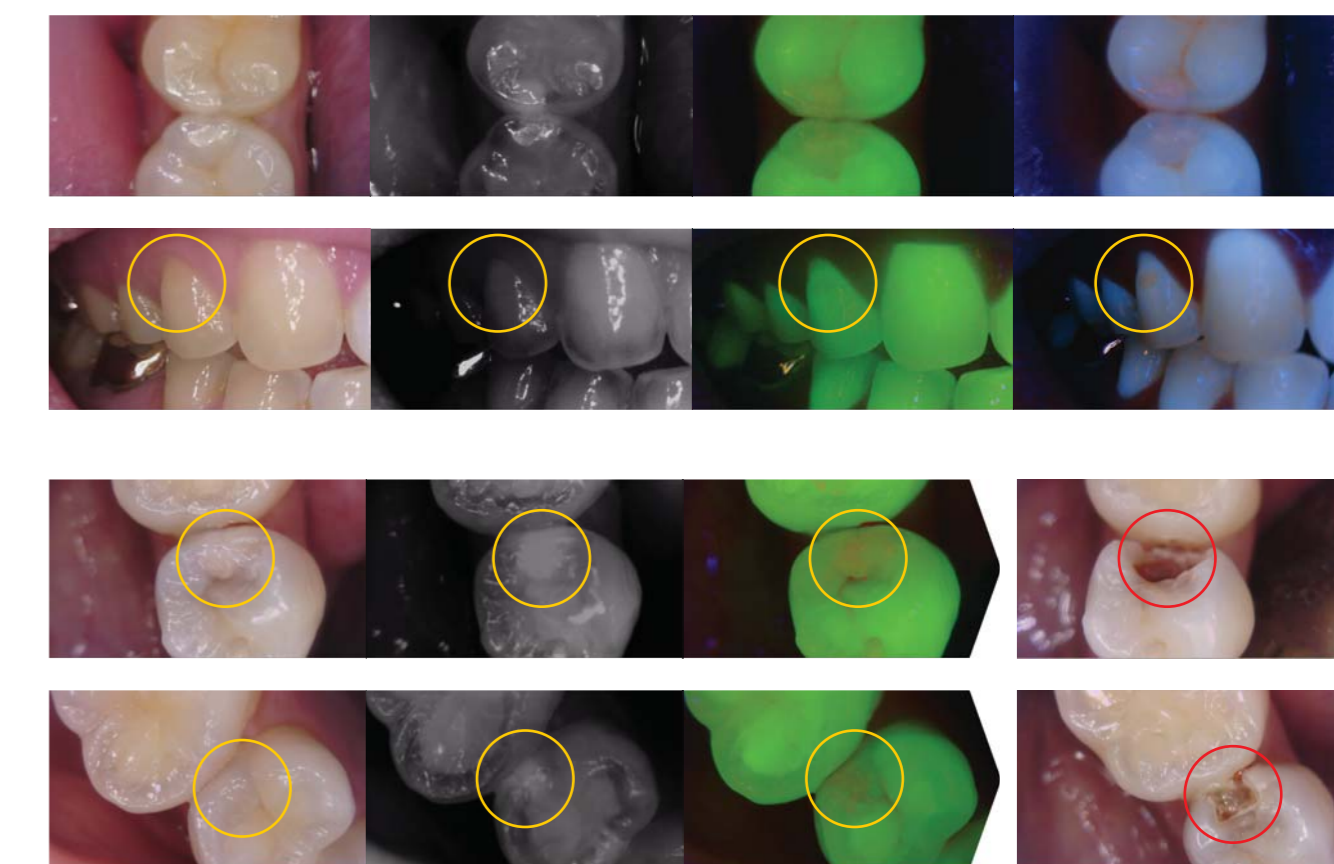
3 in 1 mode
Multi mode

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 abnormally 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 in1 shooting for comparative analysis.

3in1 3in1 shooting example.

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