

# EzRay Air™ Wall

## WEIGHT INNOVATION

WALL-MOUNTED INTRAORAL X-RAY



## **WEIGHT INNOVATION WITH CNT (CARBON NANO TECHNOLOGY)**

The wall mounted EzRay Air Wall is a lightweight x-ray device designed for easy handling and stable positioning for optimal image quality on your intraoral x-rays.

The EzRay Air Wall's lightweight tube head provides users with a stable and easy to use x-ray source which maximizes image clarity and optimizes workflow.



## **SMART DIAL FOR ALL FUNCTIONS**

The operating panel located on the tube head creates a much simpler and much faster workflow. Using the smart dial, practitioners will notice a decrease in preparation time and less of a need to remember complicated control buttons and configurations.

## **SECURE CLEAR IMAGES WITH A 0.4MM FOCAL SPOT**

Compared to other intraoral x-rays on the market, the EzRay Air Wall provides optimal image quality and additional diagnostic value with a 0.4mm focal spot.



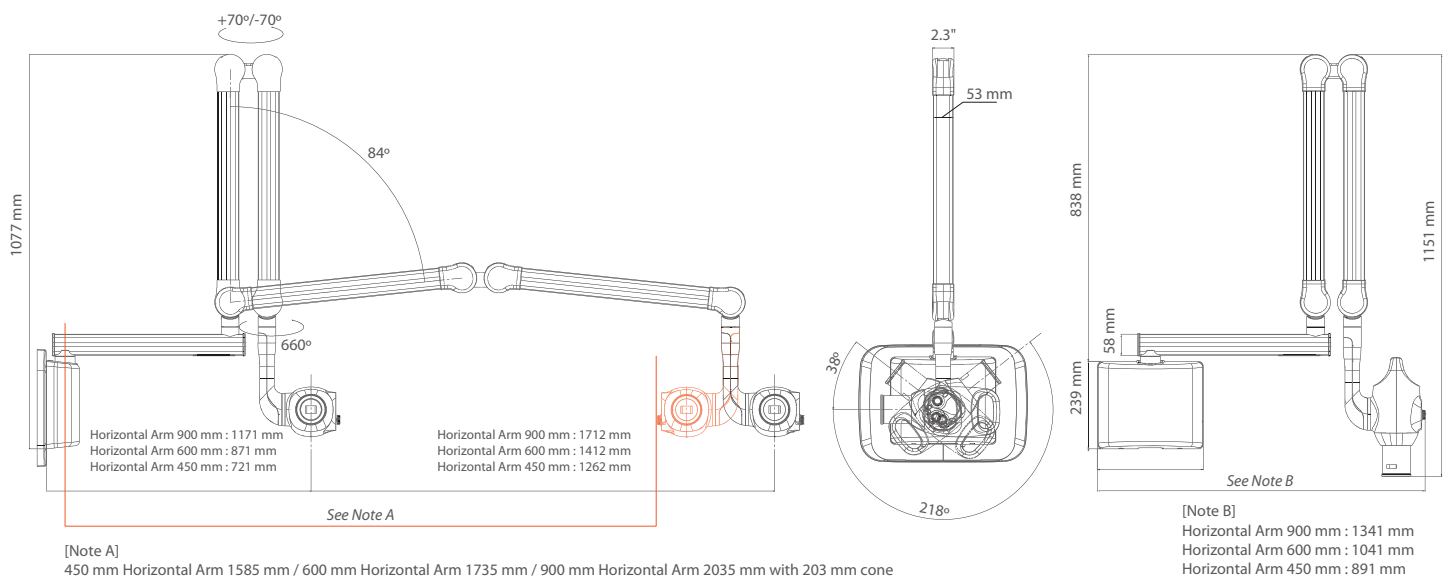
\* Exposure Condition : 65kV, 3.0mA

## SPECIFICATIONS [EzRay Air Wall : VEX-S300W]

Focal Spot	0.4 mm (IEC 60336)
Tube Voltage	65 kV
Tube Current	3.0 mA
Exposure Time Range	0.05 ~ 0.5 (0.01s increment)
Source to Skin Distance	Min. 20 cm
X-ray Field	<b>Default:</b> : 60 mm Round, 30x40 mm Rectangular / <b>Optional:</b> 20x30 mm Rectangular
Arm Length [Option]	62" / 68" / 80" *See note A
Accessories	Remote Exposure Switch (Hand Switch / Doorbell Switch)
Weight	15.9 kg (Arm Length 450 mm)
	16.6 kg (Arm Length 600 mm)
	17.9 kg (Arm Length 900 mm)

\* The specifications are subject to change without prior notice.

## DIMENSIONS [Unit: mm]





# EzRay Air<sup>TM</sup> Portable

*WEIGHT INNOVATION*

WORLD'S FIRST CNT (CARBON NANO TECHNOLOGY) PORTABLE X-RAY

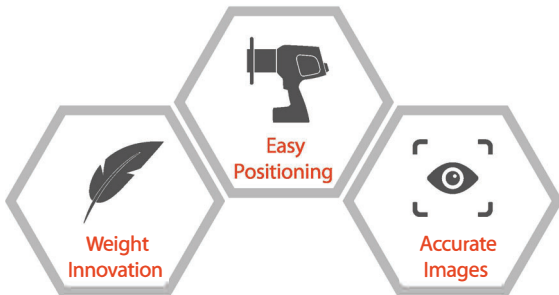
FASTER WORKFLOW



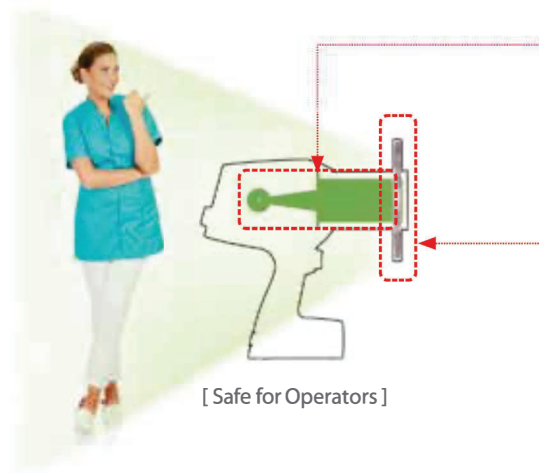
## WEIGHT INNOVATION WITH CNT (CARBON NANO TECHNOLOGY)

The world's first dental application of Carbon Nano Technology.

The EzRay Air Portable is a lightweight portable x-ray device that is designed for easy handling and stable positioning, delivering optimal image quality for your intra-oral x-ray images.



## DOUBLE SCATTER SHIELD DESIGN FOR OPERATOR SAFETY



### INTERNAL SHIELDING

The internal radiation shielding is perfectly designed to protect the operator from radiation leakage.

### EXTERNAL BACKSCATTER SHIELDING

Exposure to radiation results from the beam interacting with the surface of the patient, causing radiation to bounce off as radiation scatters in different directions. The backscatter shield significantly reduces the amount of radiation being reflected.

## LOWER COOLDOWN TIMES, FASTER WORKFLOW

The EzRay Air Portable's unique carbon-nano technology efficiencies, which are not available in traditional x-ray generation methods, means there is a 75% reduction in cool-down time between shots, when compared to leading competitor's devices. This allows users to spend less time waiting for their x-ray to be ready and more time diagnosing and treating the patient.



## NO WARMUP TIME

With no initial start-up delay for conventional x-ray sources to warm up, the EzRay Air Portable's Carbon Nano Technology optimizes workflow by allowing for quicker exposure after you initially turn on the device.

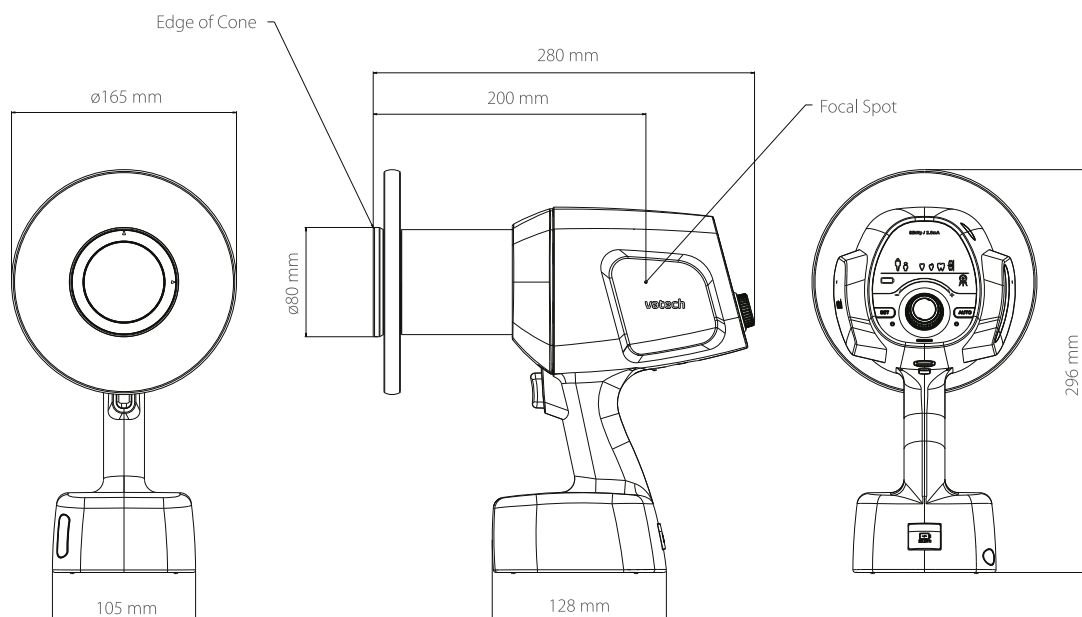


## SPECIFICATIONS [EzRay Air Portable: **VEX-P300**]

Focal Spot	0.4 mm (IEC 60336)
Tube Voltage (kV)	65 kV
Tube Current (mA)	2.5 mA
Exposure Time	1.0 sec
Total Filtration	Min. 1.5 mm Al
Source to Skin Distance	200 mm
X-ray Field	<b>Default:</b> 60 mm Round, 30 x 40 mm Rectangular / <b>Optional:</b> 20 x 30 mm Rectangular
Maximum Duty Cycle	1 : 60
Power Input	21.6 V
Weight	3.75 lbs. (1.7 kg)

\* The specifications are subject to change without prior notice.

## DIMENSIONS [Unit: mm]





# REDEFINING INTRAORAL SENSORS

## EzSensor HD™



EXPERIENCE THE HIGHEST RESOLUTION



4.8 MM ULTRA-SLIM DESIGN

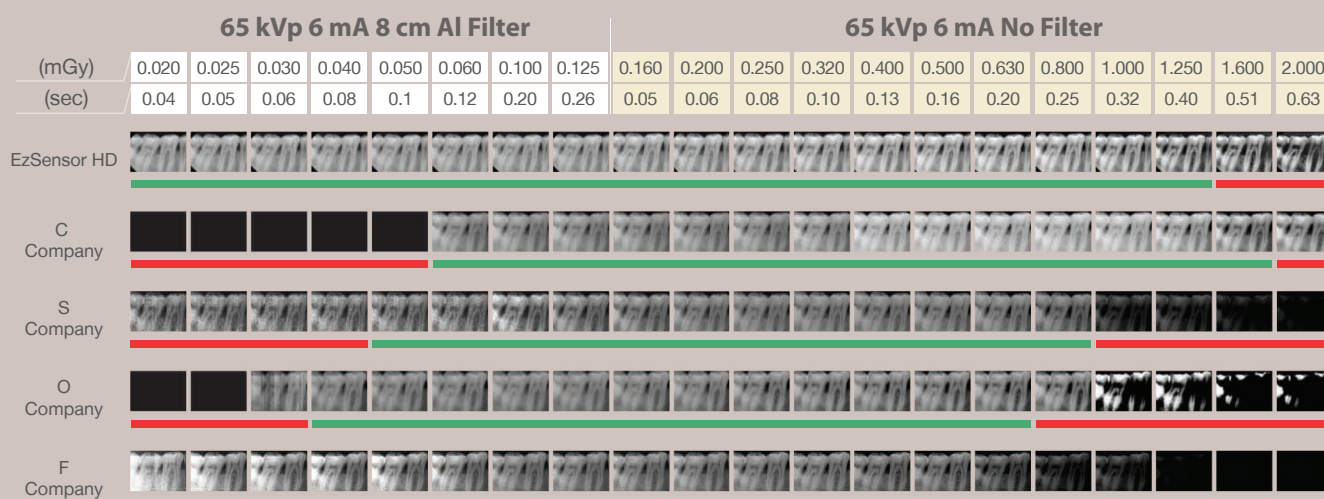


NEW CONTRAST FILTERS FOR YOUR PERFECT IMAGE



## HD EXPERIENCE THE HIGHEST RESOLUTION

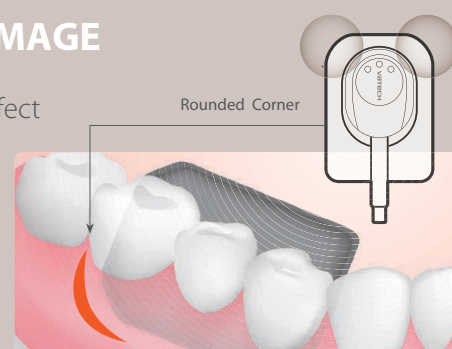
The EzSensor HD is clinically usable at a wide range of exposure settings and is more consistent than all of the other sensors in the market. Practitioners benefit from reducing exposure-related retakes and find it less time consuming. Also, patients benefit from the reduction of radiation exposure. With our high sensitivity sensor, you can capture diagnosable images under any condition, even when using an old x-ray source.



## CLEAR NEW CONTRAST FILTERS FOR YOUR PERFECT IMAGE

Switch quickly and easily among seven new contrast filters to find your perfect diagnostic image. Higher contrast filters can be utilized for periodontics, while lower contrast filters can be used for caries detection and restorative dentistry.

With the EzSensor HD, you will always have these filters at your disposal.



### SPECIFICATIONS (EzSensor HD : IOS-U10IF / IOS-U15IF / IOS-U20IF / IOS-U10VF / IOS-U15VF / IOS-U20VF)

Detector	CMOS	Pixel Size	14.8 $\mu$ m
Theoretical Resolution	33.78 lp/mm	Dynamic Range	12 bit
Active Area (WxL)	Size 1.0 : 20x30 mm Size 1.5 : 24x33 mm Size 2.0 : 26x36 mm	Dimensions (WxLxT)	Size 1.0 : 25.4x36.8 mm (1.00"x1.45") Size 1.5 : 29.2x39.5 mm (1.14"x1.55") Size 2.0 : 31.3x42.9 mm (1.23"x1.69")
Thickness	4.8 mm (0.19")	Cable Length	2.7 m

\* The specifications are subject to change without prior notice.

#### [ Intended use ]

An EzSensor HD is intended to collect dental x-ray photons and convert them into electronic impulses that may be stored, viewed, and manipulated for diagnostic use by dentists.





# VSP

## VATECH VSP

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VSP

vatech

# VSP

## **Vatech VSP Overview**

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*Vatech VSP is a user-friendly scanner, it's small and light so it can be set up in small-sized dental clinic efficiently.*

*Vatech VSP has a 4-inch LCD touch screen as a high-end device. It provides to show the largest preview image.*

*Ethernet cable enables rapid image transfer from scanner to PC. We developed Vatech VSP as a simple, fast, and easy diagnosis of patients on chairside.*



*Image preview on a 4-inch touch screen*



*High durability minimizes after-sales service occurrences*



*Support multi-user practices*



*Easy to install and use (Network set up automatically)*

**vatech**

# VSP

**3.3 kg**

small and light

**4-inch**

LCD touch screen

**Yes**

Multi-user practices

**20 lp/mm**

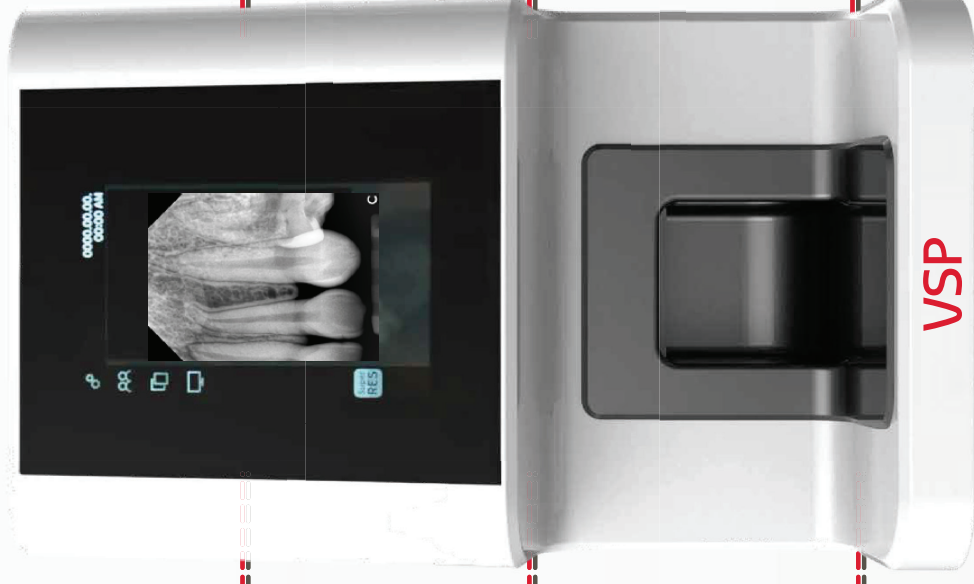
Resolution (SR/HR)

**0/1/2/3**

Supported IP size

**233x141x191**

Dimension (HxWxD mm)



**VSP**

**vatech**

# VSP

## ***One of the smallest PSP***

*The weight is only 3.3 kg and with dimension of 233x141x191.5 mm, Vatech VSP is one of the smallest and lightest PSP Scanners.*

*Vatech VSP can be easily moved and installed in every practice without constraints.*



**3.3 kg**  
*small and light*



**vatech**



# VSP

## **PERFECT IMAGES**

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Quick and accurate scanning system will bring satisfaction to both doctors and patients.

You will achieve perfect images for patient diagnosis. In any case VSP output image quality will be in SR or HR (20lp/mm in Super Resolution / 10lp/mm in High Resolution mode) so you can use it without worrying about the settings.



**20 lp/mm**  
Resolution (SR/HR)

**vatech**

# VSP

## **4-inch preview touch screen**

*Vatech VSP has a 4-inch LCD touch screen as a high-end device. This allows the largest preview of the scanned image.*

*Using the latest technologies brings satisfaction for both doctors and patients.*



**4-inch**  
LCD touch screen



**vatech**

# VSP

## **Multi pixel photon counter**

*The world's first PSP Scanner was created using MPPC.*

*MPPC is short for Multi pixel photon counters. What sets MPPC apart from the existing PMT is immunity to magnetic fields, high resistance to mechanical shock.*

*Also, the MPPC is lower than 10 times voltage operation, and more than that 10 times high gain can be obtained when compared to PMT (Photo Multiplier Tube). And it is a small size.*

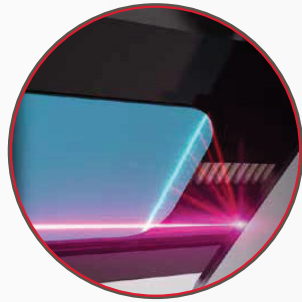


**MPPC**  
*The world's first*

**vatech**

## PMT vs. MPPC

As shown in the table, MPPCs can be driven at a low voltage, are small in size, and are inexpensive without being affected by surrounding magnetic fields, so they have many advantages from the standpoint of manufacturing.



## PMT *vs* MPPC

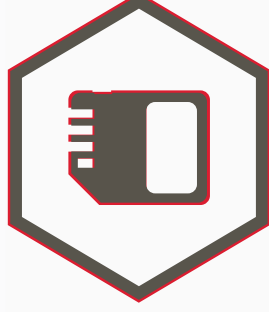
Shape	Tube	Semiconductor
Gain	$\sim 10^6$ ★	$\sim 10^6$ ★
Photon Detection Eff.	$\sim 30\%$	$\sim 40\%$ ★
Response	Fast ★	Fast ★
Photon Counting	Yes	Great ★
Magnetic Field	Sensitive	Insensitive ★
Robustness	Weak	Strong ★
Bias Voltage	$\sim 1,500V$	$\sim 60V$ ★
Size	Not small	Small ★
Cost	Expensive	Economical ★

# VSP

## **Store up to 500 HR images**

*The Vatech VSP has a built in memory, so you can store up to 500 scan images without PC connection.*

*It is possible to verify that imaging is done normally through the LCD preview screen even when scanning without PC. Scan images are stored normally on the equipment, so dental clinics can reduce the list of image loss.*



**500  
images**  
can be stored in VSP



**vatech**



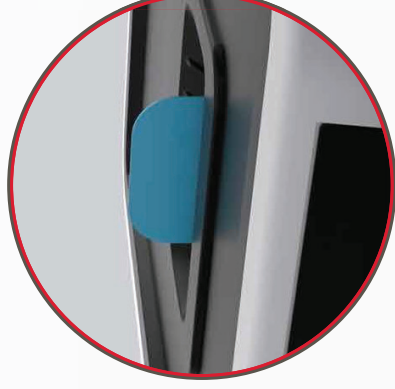
# VSP

## ***Flexible imaging plate***

*Flexible imaging plates come in 4 different sizes.*

*Cableless, thin and soft imaging plates optimally stick to various oral shapes to provide high quality images while maintaining maximum comfort for the patient.*

*Image plates are highly durable and reduce the risk of damage. At the same time Ultra-thin imaging plates can be reused over and over while keeping great image quality. Everything put together makes the product highly economical.*



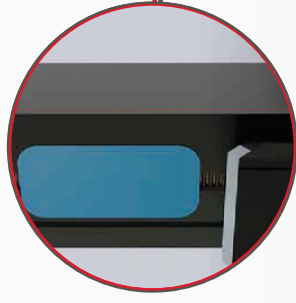
***0/1/2/3***  
Supported IP size

**vatech**

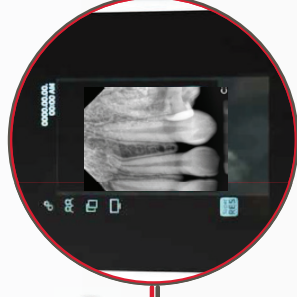
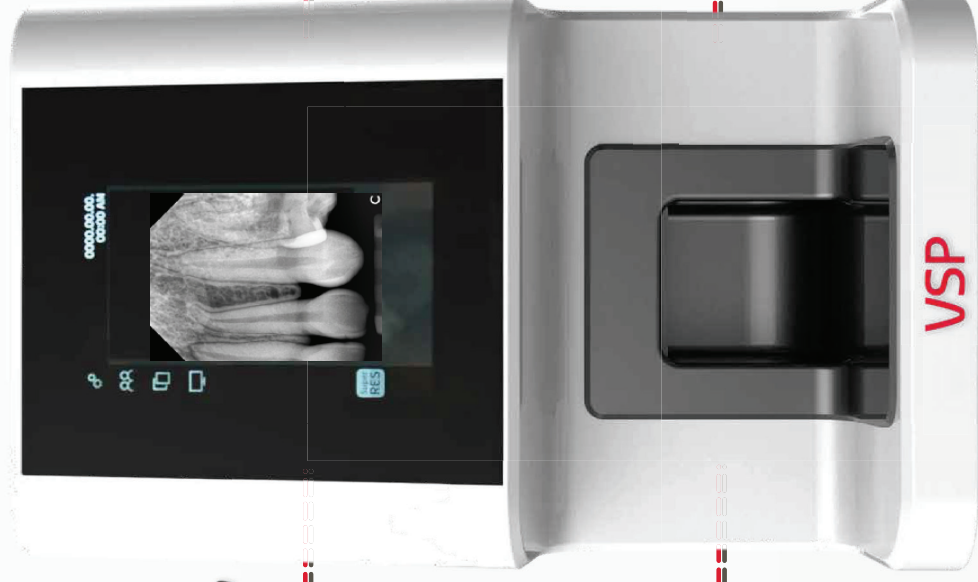
# VSP



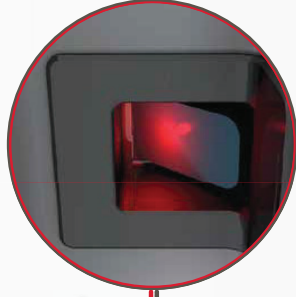
MPPC sensor for high  
image quality



Magnet rail system  
for anti vibration



4 inch touch screen



Internal IP eraser

vatech

# EzSensor Classic™

## EASY DIAGNOSIS AND GREAT EXPERIENCE WITH EZSENSOR CLASSIC



EzSensor Classic consistently provides high resolution and clear images for accurate diagnosis and treatment planning.

### VARIOUS SIZES (1.0 / 1.5 / 2.0)

Select the right sized sensor from the three size options to increase patient comfort.

### ERGONOMIC DESIGN

The EzSensor Classic has a slim design with rounded corners for easy positioning to ensure patient comfort.

### DURABILITY

The EzSensor Classic's unique design makes itself extremely durable. The exterior is made of rugged aluminum and the interior is designed to absorb the external shock. Furthermore, a reinforced, flexible cable attachment protects the sensor from excessive bending.



Square Corner



Rounded Corner



### SPECIFICATIONS (EzSensor Classic : IOS-U10IB / IOS-U15IB / IOS-U20IB / IOS-U10VB / IOS-U15VB / IOS-U20VB)

Detector	CMOS
Pixel Size	29.6 μm
Theoretical Resolution	17 lp/mm
Dynamic Range	12 bit
Active Area (WxL)	Size 1.0 : 20X30 mm Size 1.5 : 24X33 mm Size 2.0 : 26X36 mm
Dimensions (WxLxT)	Size 1.0 : 25.4X36.8 mm (1.00"X1.45") Size 1.5 : 29.2X39.5 mm (1.14"X1.55") Size 2.0 : 31.3X42.9 mm (1.23"X1.69")
Thickness	4.8 mm (0.19")
Cable Length	2.7 m

\* The specifications are subject to change without prior notice.

### [ Intended use ]

Intra-Oral Sensor is intended to collect dental x-ray photons and convert them into electronic impulses that may be stored, viewed and manipulated for diagnostic use by dentists.

# EzScan™



## *Expand Your Digital Workflow*



### ***Simple and Intuitive Interface for an Improved Scanning Experience***

- Clear and intuitive interface for ease of use
- Essential functionality for many treatment plans



### ***Case Sharing***

- EzScan Cloud is an easy-to-use file-sharing module for sharing digital impressions with the lab of your choice.



### ***Quick Scan Time for Workflow Efficiency***

- Full mouth scans in under 2 minutes from start to finish



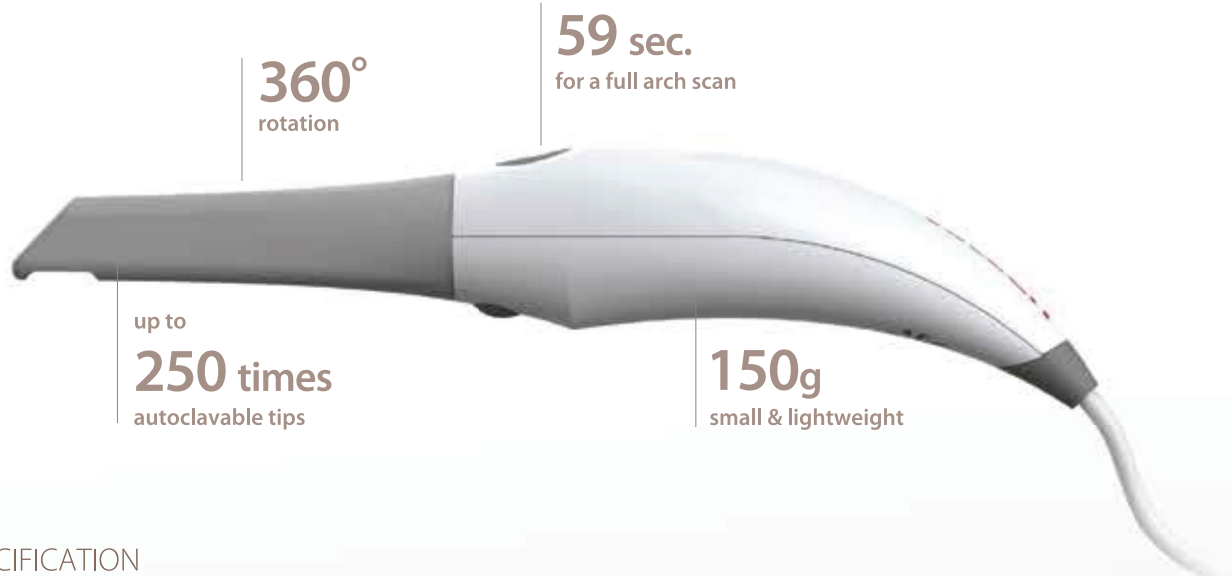
### ***Open Platform with No Continued Fees***

- Easy to export to your treatment planning software or to send it to the lab of your choice
- Maximize your ROI with no continued fees



## *Bring simplicity to your workday with an ergonomically designed lightweight scanner*

The EzScan is a digital 3D imaging solution designed to bring simplicity to your work. It is presented as a turn-key solution that takes under 10 minutes to unbox and setup. The solution includes a pre-calibrated scanner, three autoclavable tips, and an optimized acquisition PC with the EzScan software pre-installed to ensure that you spend less time installing and more time scanning. The EzScan-i features an intuitive, user-friendly interface that makes it easier than ever to meet all of your restorative, orthodontic, and implant needs.



### SPECIFICATION

FOV	12 x 14 mm	Features	True Color / Powder Free
Scan Time (Full Arch)	Less than 2 min.	File Output	STL, PLY, OBJ, DWOS
STL Converting Time (Full Arch)	Less than 1 min.	System	Open
Weight	150 g	Connector	USB Type-A