

VSP

# VATECH VSP

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# 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)*

# VSP

**3.3 kg**  
*small and light*



**Yes**  
*Multi-user practices*



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



**4-inch**  
*LCD touch screen*



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



**233x141x191**  
*Dimension (HxWxD mm)*



# 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



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# 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)



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# 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



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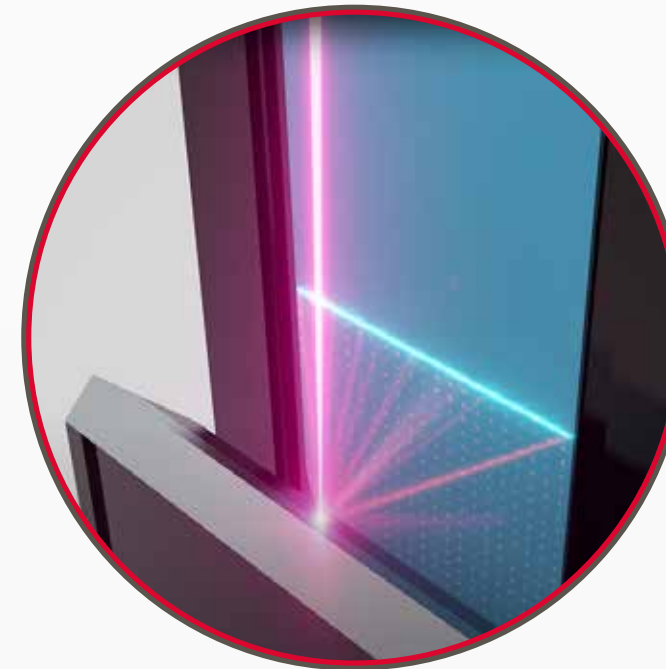
# VSP

## **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

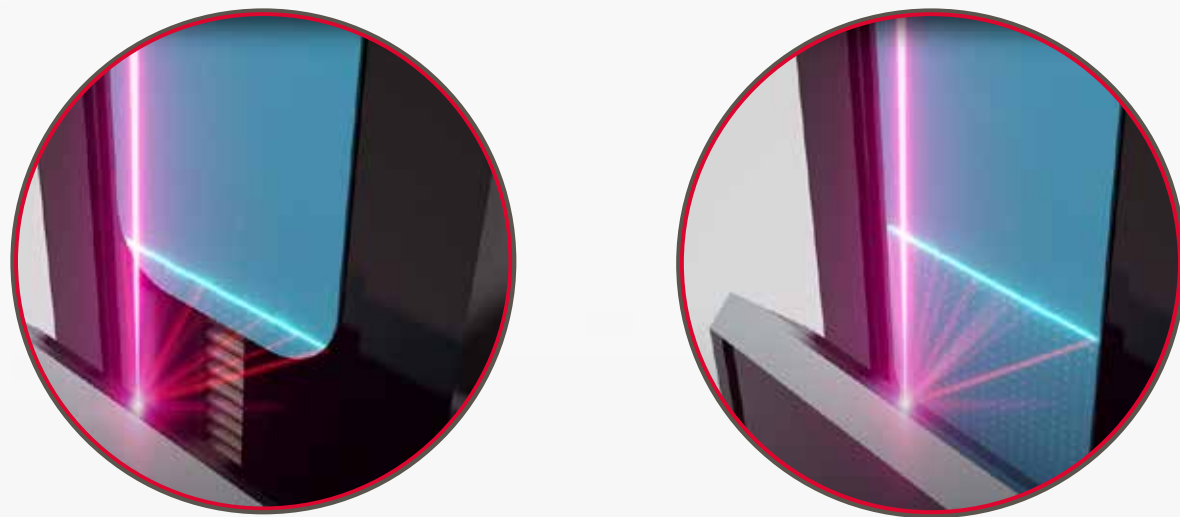


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## ***PMT vs. MPPC***

*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**

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

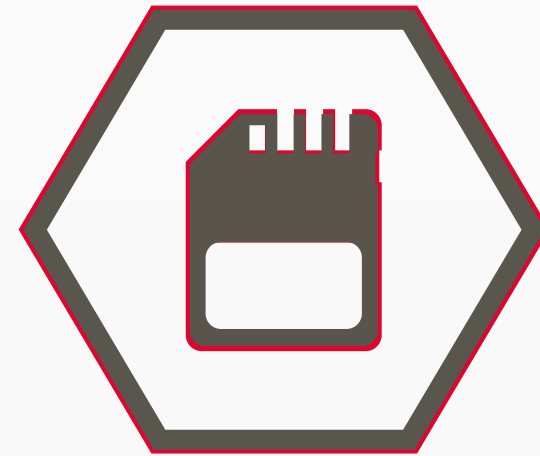


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## Store up to 500 HR images

*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



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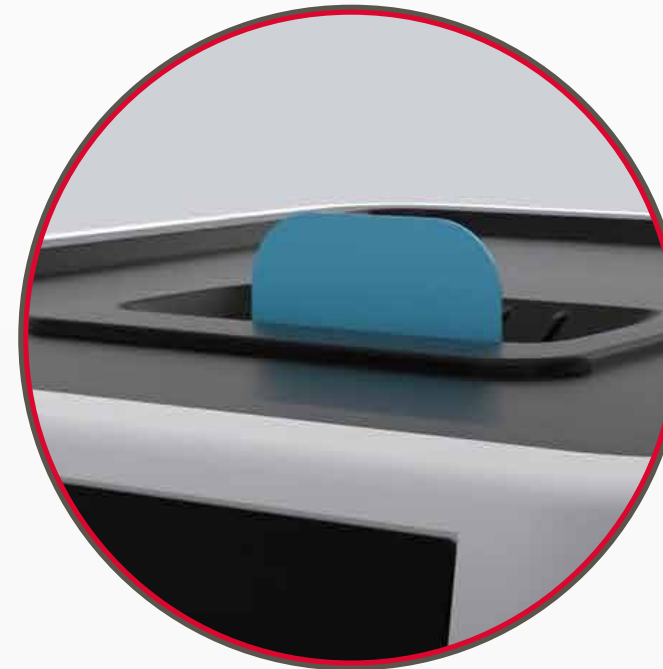
# VSP

## ***Flexible imaging plate***

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*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.*

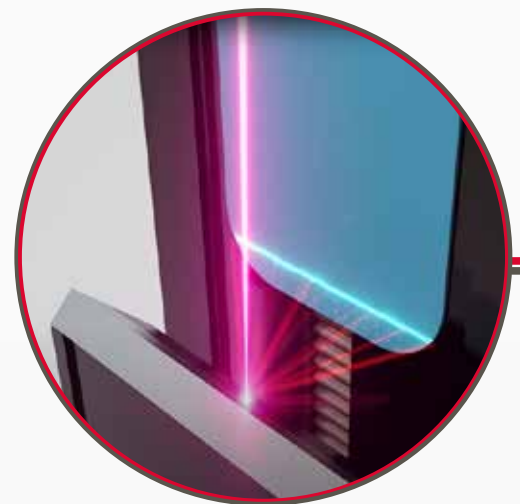


**0/1/2/3**  
Supported IP size



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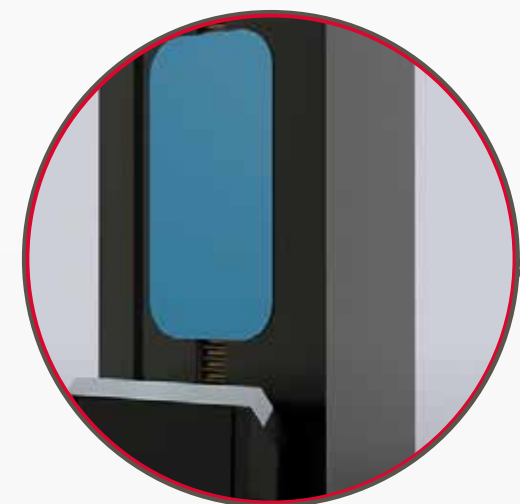
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*MPPC sensor for high image quality*

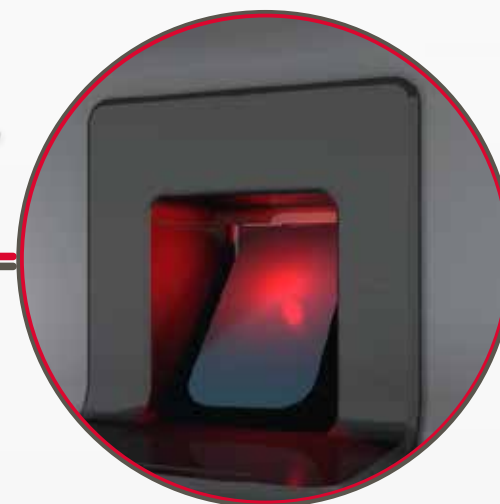


*4 inch touch screen*



*Magnet rail system for anti vibration*

*Internal IP eraser*



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