

Intraoral 2D Imaging

# IO Sensor & Portable X-ray

[www.hdxwill.de](http://www.hdxwill.de)



**With**  
SENSOR



# 4.5 mm ULTRA-SLIM

## Digital Intra-oral Sensor

WITHSensor1.0 (Pluto0001X)

WITHSensor2.0 (Pluto0002X)



| APS CMOS technology |

| Smart AED-Compatible for variety X-Ray sources |

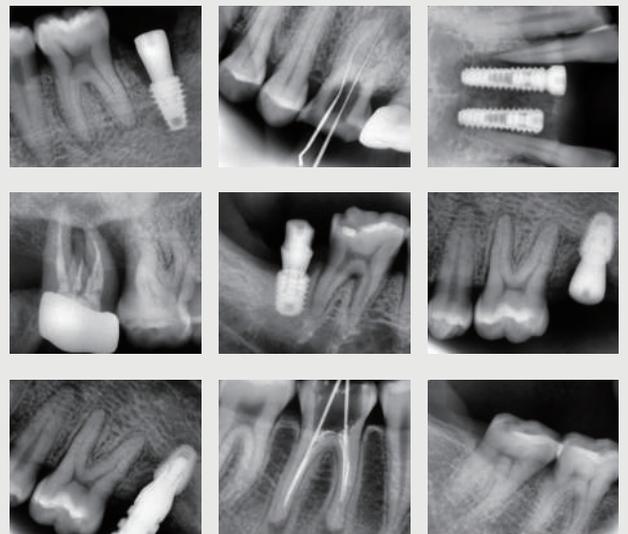
| Direct deposition CSI - Lower dose imaging |

| USB 2.0 direct connection |

| Slim, rounded corner and thumb position |

| IP68 - High reliability |

Support TWAIN protocol



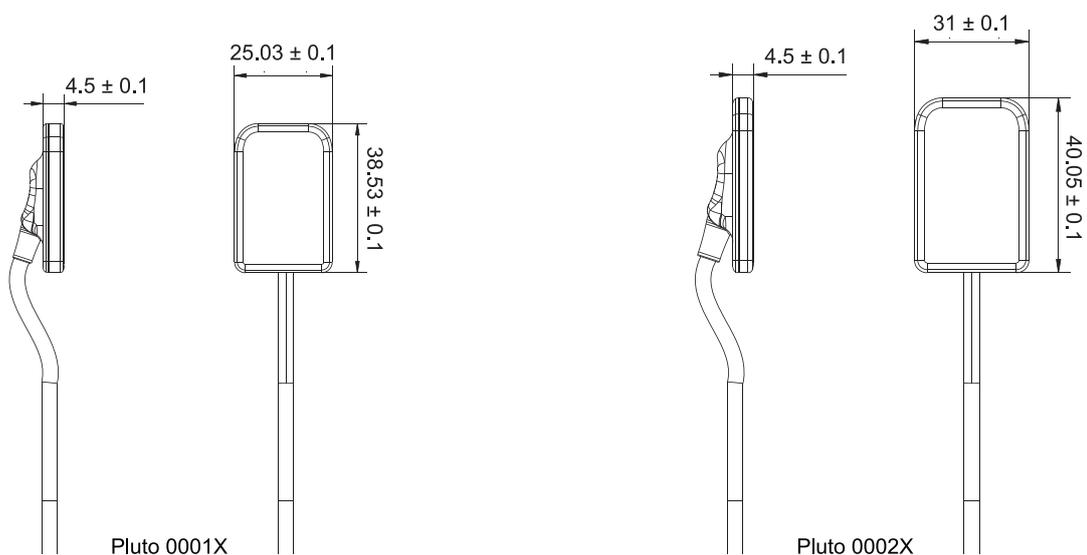
## Technical Specifications

Pluto 0001X / Pluto 0002X

Products	Pluto 0001X	Pluto 0002X
Mechanical Dimensions (mm <sup>3</sup> )	25.0 × 38.5 × 4.5	31.0 × 40.0 × 4.5
Active Area (mm <sup>2</sup> )	20 × 30	26 × 36
Pixel Matrix	(1.5 M) 1000 × 1500	(2.34 M) 1300 × 1800
Color		
Sensor Technology	APS CMOS	
Scintillator	Directly deposited CsI:TI	
Length of Cable (m)	Standard 3m / Option 5m	
Pixel Pitch (μm)	20	
Spatial Resolution (lp/mm)	Theoretical: 25 lp/mm Actual: 14 ~ 16 lp/mm (High Sensitivity) 18 ~ 20 lp/mm (High Resolution)	
Gray Level	16 bit, 65535 grade	
Exposure Mode	Smart AED	
Ingress Protection	IP68 for Soak disinfection	
Additional	Support TWAIN protocol	
Operation System	Windows 7 and above, 32 / 64 bit	

## Dimensions

Unit: mm



## Portable CNT X-ray for digital dental diagnostics



- CNT digital X-ray source
- Convenient operation & Easy maintenance
- Can take high resolution of X-ray images
- minimal radiation
- Flexible power range
- Analogue film and digital sensor (70kV, 2mA)
- Ergonomic & user friendly design



## CNT(Carbon Nano Tube) Innovation

Commercialized the world's first CNT-based digital X-ray

CNT enables users to simultaneously control the X-ray in stable pulse, which is technically impossible with current analogue type tubes. The field of X-ray is falling behind the times as it has been using analogue tubes for over 100 years. CNT will open a new era of fully digitalized X-ray thanks to its technological advancements (High-speed, miniaturized, high-resolution, etc).



Analogue tube: Filament based



CNT

## Product features

- Easy control by using jog dial
- Can take max 800 shots with a fully charged battery, 150,000 images(lifespan)
- Light and compact device

## Easy and convenient jog dial panel

- Can customize options for each individuals (Radiation exposure time, tooth type, and sensor type)
- Can control the device easily by using jog dial



## VX-30 components

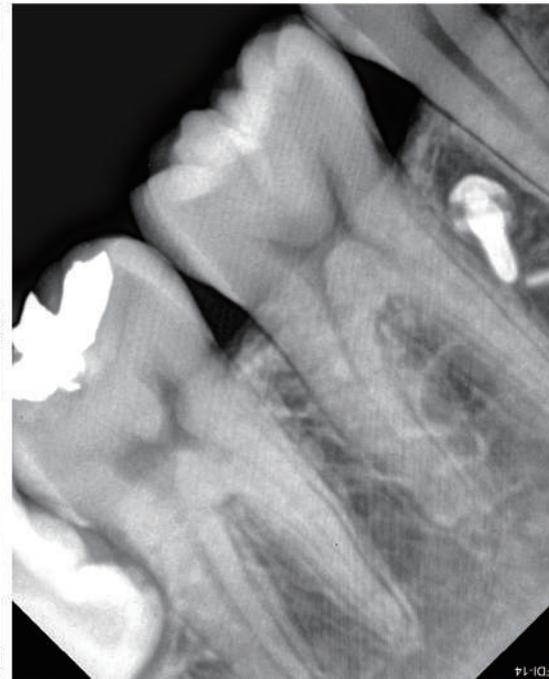


- ① Main body
- ② Cradle
- ③ Power adapter

## Product specifications

Model	VX-30
AC/ DC adapter power range	Input : 100-240 Vac, 50/60 Hz, 0.4 A / Output : 25.5 Vdc, 0.9 A
Power adapter power range	22.2 Vdc, 1460 mAh
Tube voltage	70kV (Fixed)
Tube current	2.0 mA (Fixed)
Exposure time range	0.12 s - 1.2 s
Focal spot size	0.4mm (complied with IEC 60336)
SSD	200mm
Total Filtration	2.6 mm Al
Anode angle	12.5°
Anode thermal capacity	200 W
Product dimension	360 X 100 X 253 (mm)
Product weight	1.5kg

\* X-rays images by VX-30





**1982**  
Establishment of HDX Corp.



**2010**  
DINNOVA CBCT Launch



**2008**  
Establishment of HDX WILL  
formerly known as Willmed Ltd.

## About HDX WILL Imaging

HDX WILL is a leading South Korean manufacturer of advanced imaging solutions with a focus on CBCT X-ray systems and artificial intelligence.

The HDX Corp., the parent company of HDX WILL, has been operating as a total solution provider for hospitals since 1982.

As a specialist in Imaging, HDX WILL offers 3D imaging systems for dentistry, orthodontics, and ENT. We have our subsidiaries in Germany, South Korea, the USA, China, and Malaysia.



**2012**  
DENTRI CBCT Launch



**2017**  
Q-FACE 5-in-1  
CBCT Launch



**2020**  
eco-x AI CBCT Launch



## HDX WILL Europe Headquarter

HDX WILL Europe GmbH, Hauptstraße 285, 65760 Eschborn, Germany

[info@hdxwill.de](mailto:info@hdxwill.de)

[www.hdxwill.de](http://www.hdxwill.de)

