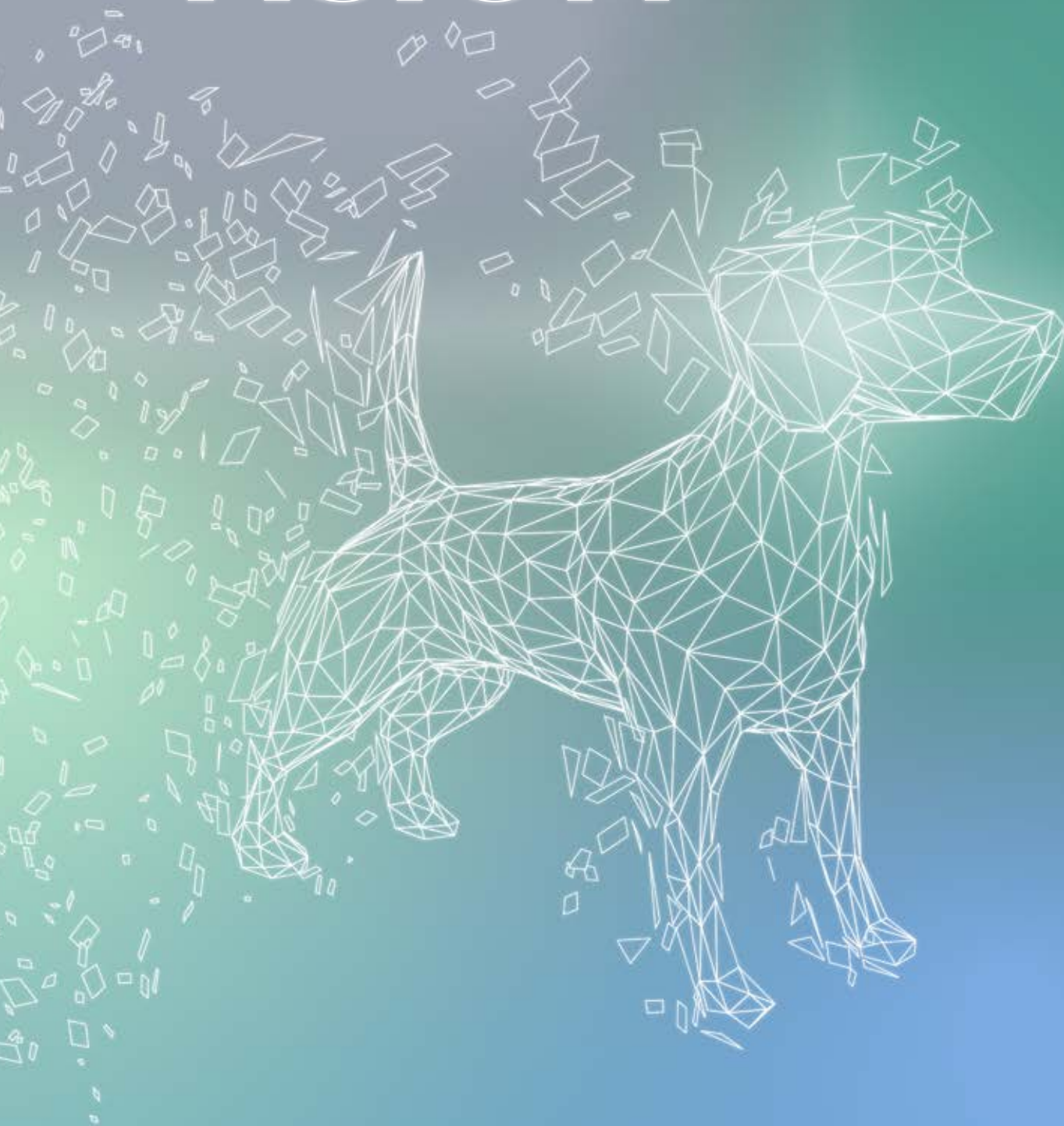


BEYOND VISION



NEWTOM
CONE BEAM 3D IMAGING

HIGH DEFINITION CONVENIENCE

Ultra-high image quality - which remains a defining feature of the entire range - is combined with the practicality and convenience of film thanks to the CR system for X-PSP VET intraoral X-rays developed by NEWTOM.

NEWTOM X-PSP VET

- NEWTOM X-PSP VET is the CR (Computed Radiography) system that combines advanced digital diagnostic technology with the advantages of traditional film plates. Stylish and compact, the system is fast and simple to use. In just a few seconds, the X-PSP VET reader can import and digitalize every image from the relative phosphorous film plates in rapid sequence, allowing their immediate display on PC or, via the app, on an iPad. Images are high resolution, a must for reliable diagnosis.
- Thin and ergonomic, but with the advantages of digital sensors, phosphorous film plates are simple to position and comfortable for patients. AUTO-READ technology allows automatic recognition of plate size; this means plates can be inserted without having to act manually on the reader to adjust slot width.
- Moreover, adaptive Multi-User Technology also simplifies the acquisition phase when the surgery performs X-rays on different patients in the same time frame in Multi-User mode.



VERSATILITY

Five different sizes and adaptive filters for multi-level display ensure versatility and a broad diagnostics scope.

HI-TECH RELIABILITY

Hi.Res technology (17 lp/mm): provides accurate high definition images with outstanding contrast, ensuring reliable diagnosis.

ERGONOMICS

The simplicity of film and a design that optimises ergonomics, combined with the quality and speed of digital.

CONNECTIVITY

The software dialogues with management systems, streamlines data sharing directly in DICOM and optimises Multi-User workflows.

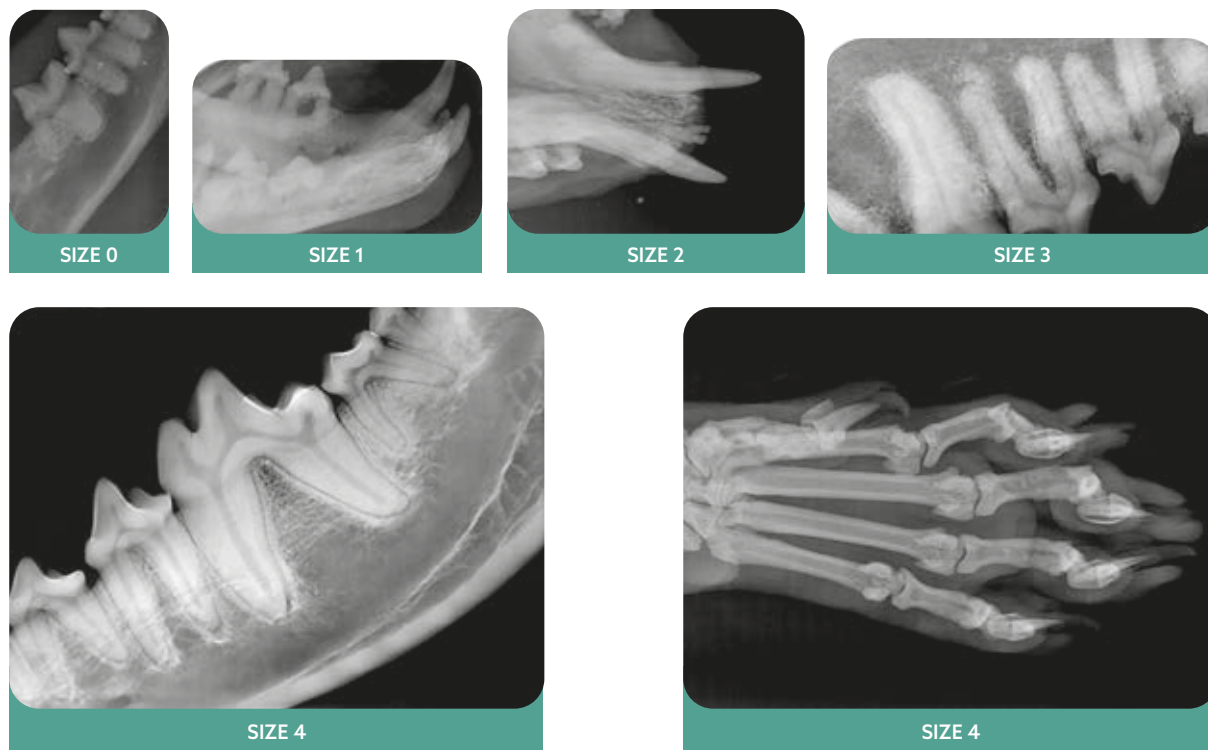
CUTTING-EDGE QUALITY

High quality X-rays in every application thanks to Adaptive MultiVision mode which uses innovative filters to optimise image yield.

NEWTOM X-PSP VET is the CR (Computed Radiography) system that combines advanced digital diagnostic technology with the advantages of traditional film plates. Stylish and compact, the system is quick and simple to use and provides high definition images with a resolution of up to 34 pixel/mm. Once the plate of the selected size is positioned, either in the mouth or on the limb to be diagnosed, the X-rays are taken. If the clinic is a multi-surgery establishment then the reader can be booked for acquisition. Inserting the plates in the reader one at a time, the high definition images are acquired and then transferred to the local PC and/or sent to the client who reserved the reader; images can immediately be consulted, shared and saved with NNT software or another viewer, printed and e-mailed.

INTRAORAL, EXTRAORAL AND ORTHOPAEDIC VETERINARY DIAGNOSTIC APPLICATIONS FOR SMALL ANATOMICAL AREAS

Compatible with 5 sizes for the acquisition of images with a pixel size of 30µm.

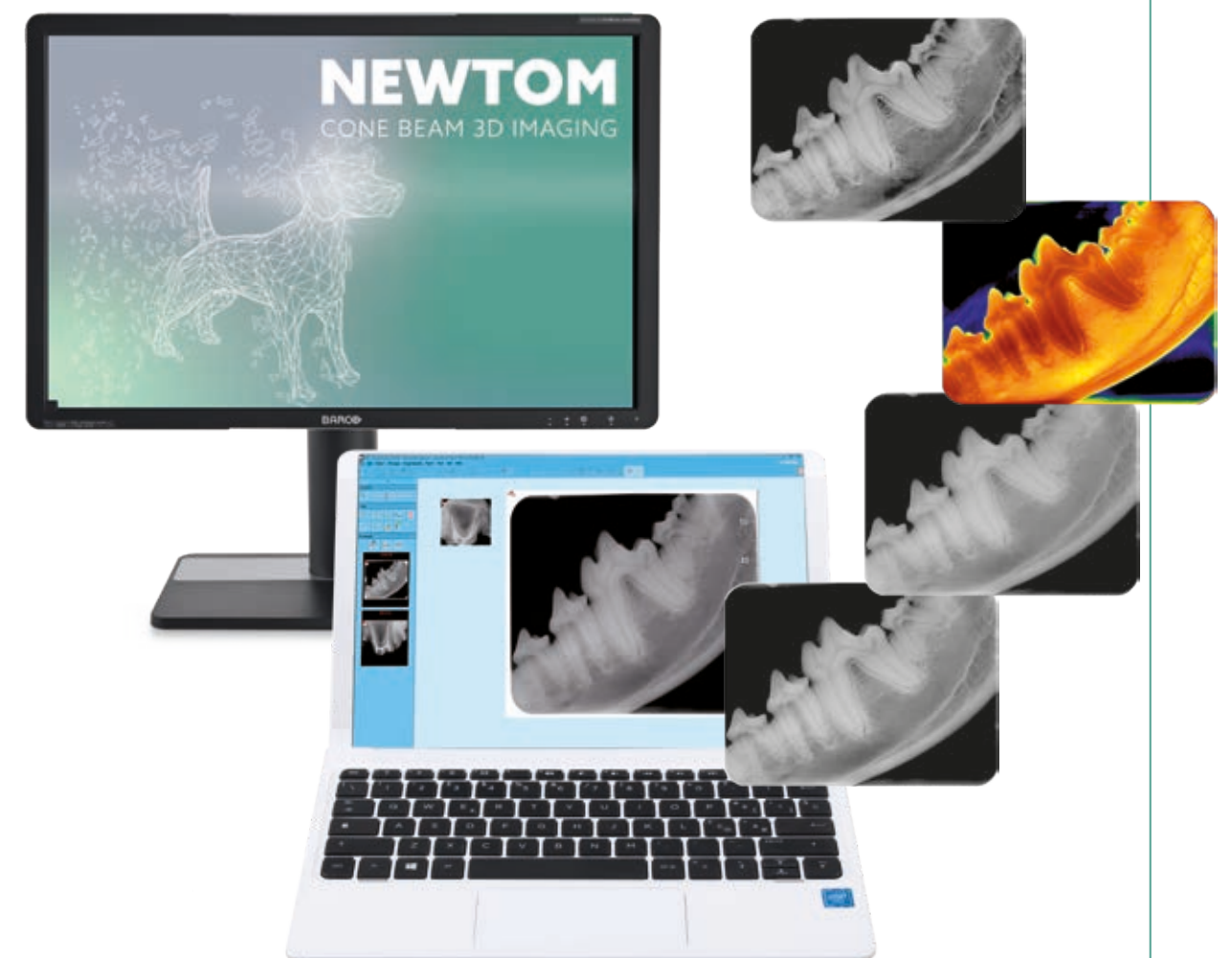


MULTIPLE DIAGNOSTICS - APPLICATIONS

Five different plate sizes let users take intraoral X-rays or obtain X-rays of small anatomical areas such as limbs of reptiles or small rodents, all within a very short time span. The system applies the Hi.Res technology (17 lp/mm) that provides accurate high definition images with outstanding contrast, ensuring reliable diagnosis.

NEWTOM ADAPTIVE MULTIVISION

Innovative NEWTOM ApT (Adaptive Picture Treatment) filters have been developed to allow ever-more effective, accurately targeted diagnosis. Thanks to proprietary algorithms optimized for phosphor film plates, this function provides, with each acquisition, a set of images (up to 5) that has been specifically improved to highlight anatomical details with different levels of sharpness. With NNT software, X-PSP VET lets the vet adopt more advanced, versatile image processing filters in Adaptive MultiVision mode.



NNT CONNECTIVITY

Maximum connectivity and integration thanks to the modern systems adopted by NEWTOM. Ever-simpler, better-performing clinical and diagnostic workflows.

A fully automated workflow for fast diagnosis. Import data from any network workstation thanks to the ETHERNET connection.

Save and display captured X-ray images on the PC using all-in-one NNT diagnostic software featuring the VET diagnostic interface with the convenient iPad viewer app or with any other control programme or image viewer with a TWAIN or DICOM interface.

INTERFACE WITH MANAGEMENT SYSTEMS

An open system designed for fast, efficient interfacing with the main veterinary clinic management software solutions via various standard (VDDS, TWAIN) and/or proprietary (NNTBridge) modes. IHE conformity allows communication with RIS/PACS systems and DICOM printers. Complete set of services available: Print, Worklist, Storage Commitment, MPPS and Query/Retrieve.

REMOTE ASSISTANCE

Configuring the X-PSP VET to use the veterinary clinic's internet connection makes it possible to monitor the device and perform any remote technical servicing.

IMAGE SHARING

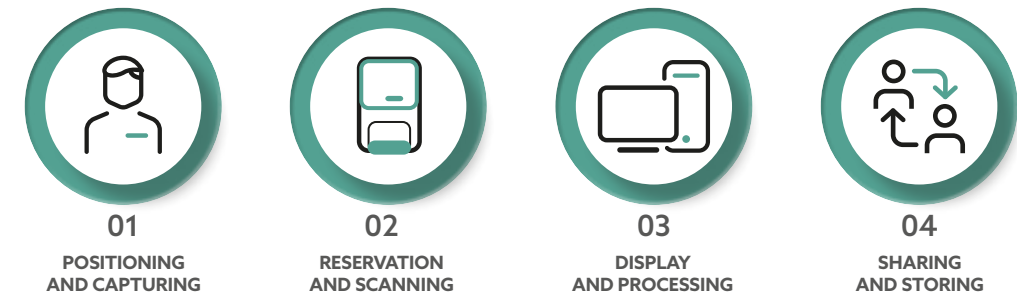
Exams can be shared with colleagues and pet owners by providing the display programme directly on CD, DVD or USB storage device or by sending them in digital format.

MULTI-STATION DISPLAY AND PROCESSING

Image storage on a shared database in a local network that is accessible from any workstation or iPad. Management of multiple archives and access to password-protected data.

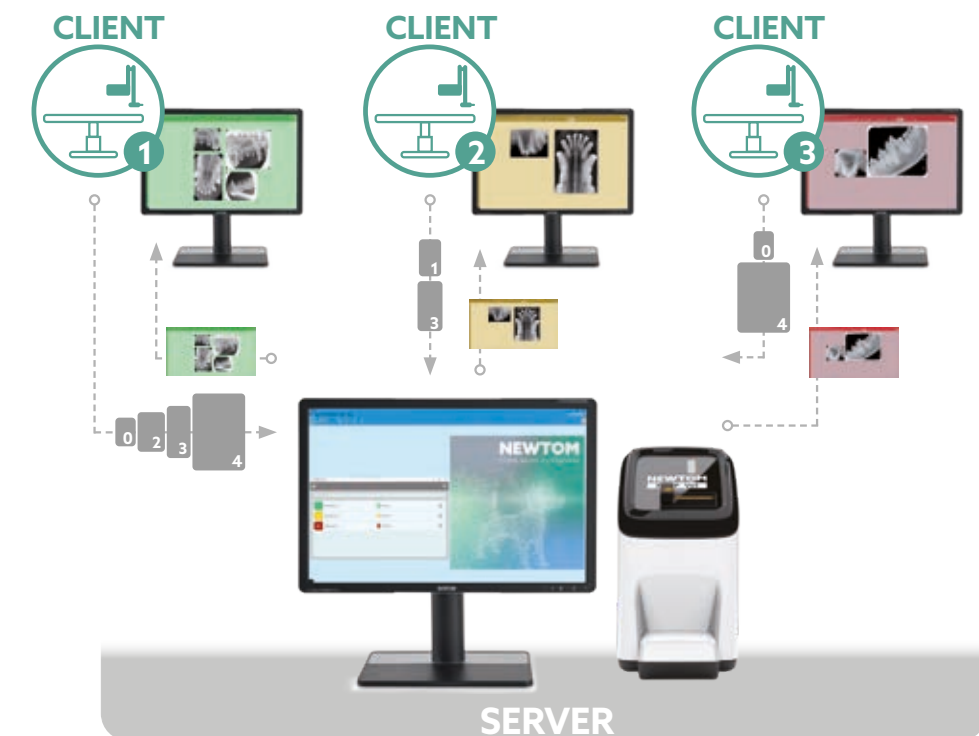


WORKFLOW OPTIMISATION



ADAPTIVE MULTI-USER TECHNOLOGY (aMUT)

X-PSP VET optimises workflows in multi-room veterinary surgeries. Thanks to the adaptive Multi-User Technology function, the remote read system (connected to the server PC) can be managed with reservations made directly from the workstation (Client PC). The patient is defined by a name and the colour of the surgery. Available in iCapture, the app automatically saves a series of remotely scanned images in the medical records of the patient who was pre-selected in NNT from the surgery where the reservation is made. These images will immediately be displayed on the Client PC and it will therefore be possible to show them to the pet owner in real time.



in according to
EN ISO/IEC 17065:2012

NNT: CERTIFIED SOFTWARE

NNT has been granted the ISDP®10003 international scheme for data protection certification, to assess compliance with the European Regulation 2016/679 concerning the protection of individuals with regard to the processing of personal data.

ERGONOMIC AND VERSATILE

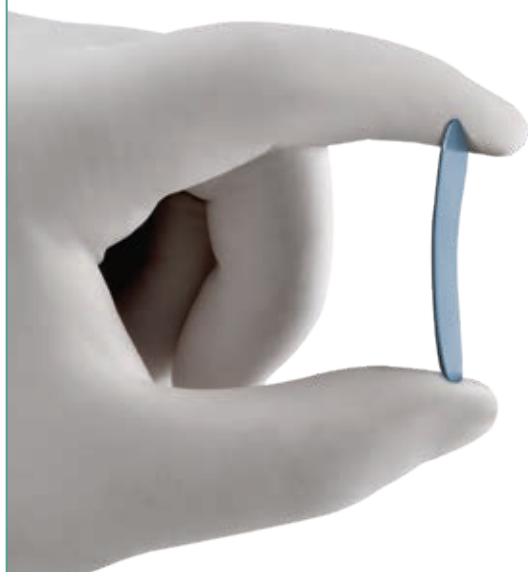
Compact and well designed, X-PSP VET applies automatic plate size recognition technology to speed up the acquisition process.

Designed to take up as little space as possible in the veterinary clinic, the X-PSP VET reader can be installed in the position that best suits personnel. The removable drawer has been designed to maximise reader compactness also when it is installed and the 45° angle of the upper part of the device makes plate insertion easier.

Phosphor plates ensure the same flexibility of use and comfort as dental film. They also have the clear advantage of being reusable and ensuring excellent, long-lasting diagnostic quality. Compared to traditional film, the X-PSP VET system offers the advantage of fast image display directly in digital format, zero processing costs and greater workflow efficiency.

SMART ACQUISITION (AUTO-READ TECHNOLOGY)

The plate consists of a phosphor layer and a magnetic layer that speeds up the reading process with an automatic acquisition sequence start. Plate size recognition is also automatic; the plate is extracted from its protective wrapping inside the reader, shielding it from any exposure to light or hand contact. The highly dynamic system and the correction of any over- or under-exposure minimise the risk of having to re-scan.



BETTER ERGONOMICS

Thin, flexible and without any positioning limits, the plates have 100%-equivalent active area.

ECO DOSE

Thanks to ultra-high plate sensitivity, images of optimum quality can be captured with minimum X-ray doses.

WALL-MOUNT OPTION

The X-PSP VET is suitable for any surgery. It can be placed on a horizontal worktop or wall-mounted with a bracket.



STATUS LED

A luminous indicator positioned above the plate slot provides instantaneous information on reader status.

ETHERNET CONNECTION

Fast, secure image transfer to the PC next to the workstation or directly from the server with adaptive Multi-User Technology.

REMOVABLE DRAWER

Lets users collect and carry the just-used plates with ease.



PLATE HOLDER ORGANIZER

Solution allowing tidy storage of plates until they are ready to be used.



AUTO-READ TECHNOLOGY

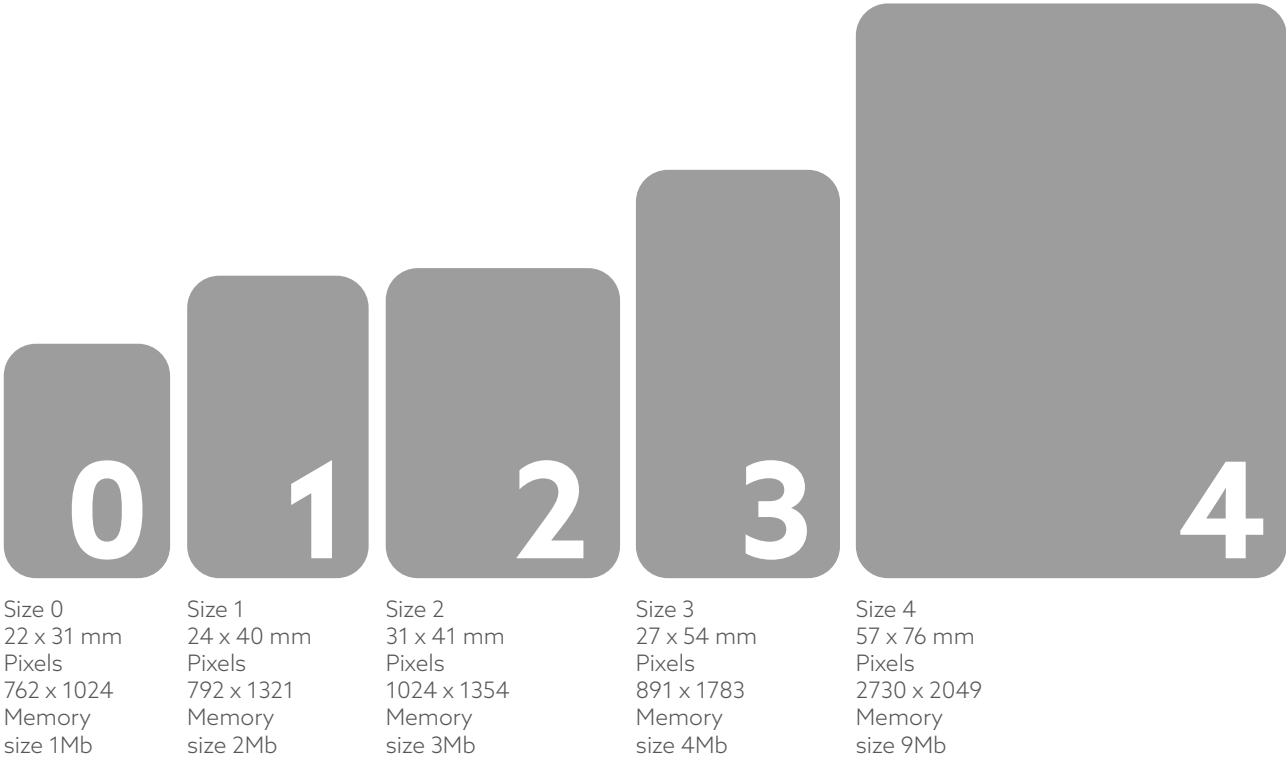
X-PSP VET auto-read technology ensures fully automatic acceptance and scanning of exposed plates. To maximise efficiency, the system recognises the size, imports the image into the PC and deletes plate data so it is ready for the next acquisition.



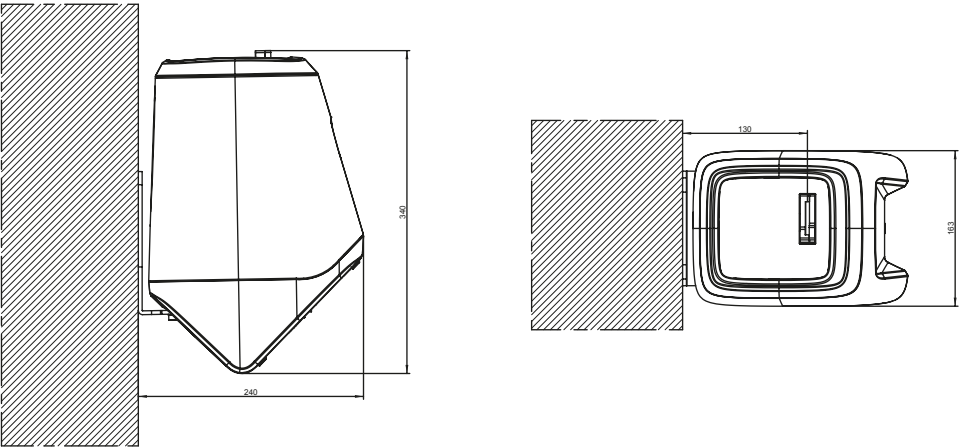
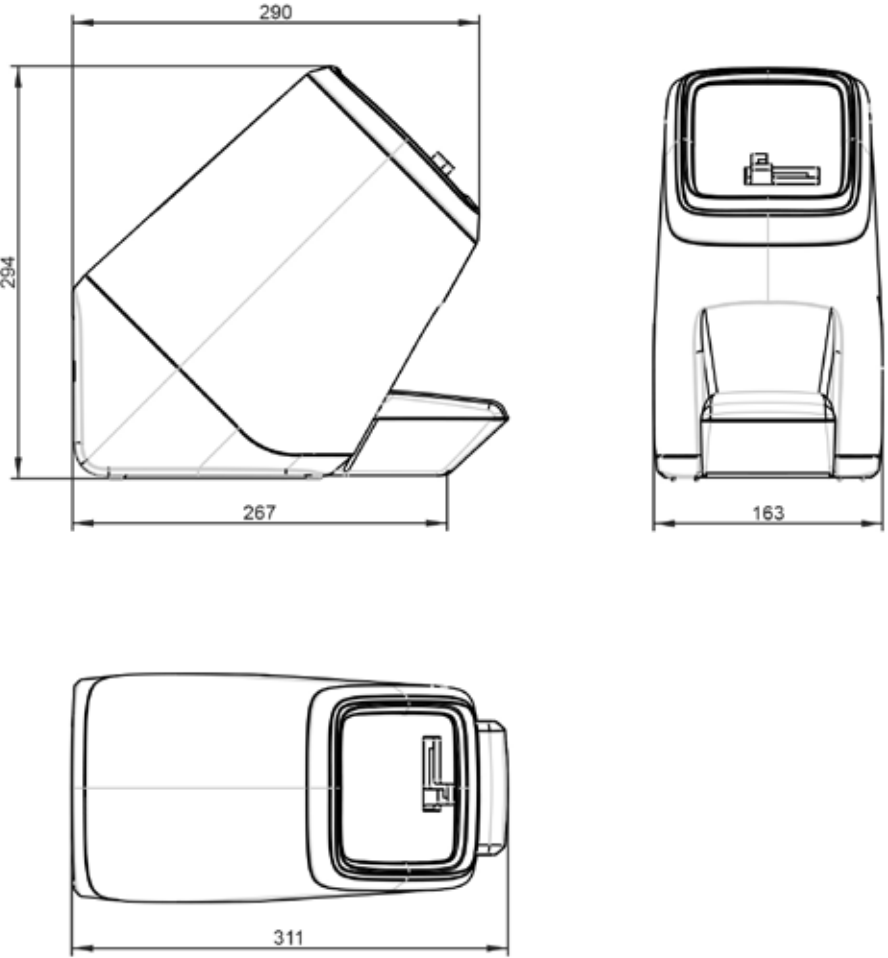
FAST IMAGE DISPLAY

The X-PSP VET ensures ultra-fast display of images that are always sharp. This increases diagnostic efficiency and enhances communication with animal owners.

Dimensions in millimetres



TECHNICAL SPECIFICATIONS	
Resolution (theoretical)	17 lp/mm
Image pixel size	30µm
Image grey levels	16 bit (65,536 grey levels)
Supported plate sizes	Size 0, 1, 2, 3, 4
Plate size selection	Automatic
Read time	4 - 12 s
Plate deletion	Automatic
Dimensions (H x L x D)	224 x 163 x 290 mm
Weight	5.7 kg
Power supply	110 - 240 V 50/60 Hz (24 Watts)
Connectivity	ETHERNET direct to PC or in LAN
Acquisition software (for PC)	iCapture with aMUT interface for third party software
Image management software (for PC)	NNT (compliant with ISDP®10003:2018 in accordance with EN ISO/IEC17065:2012 - certificate number 2019003109-3) and iPad NNT viewer App (free)
Supported protocols	DICOM 3.0, TWAIN, VDDS
DICOM nodes	IHE compliant (Print; Storage Commitment; SR document; WorkList MPPS; Query/Retrieve)
MINIMUM SYSTEM REQUIREMENTS	
Supported operating systems:	Microsoft® Windows® 10 Professional 64 bit
Display settings	1280 x 1024; 1344 x 768 or greater, 16 million colours
Port	PC Server: RJ 45 PC Client connected in LAN



NEWTOM

CONE BEAM 3D IMAGING



BU MEDICAL EQUIPMENT

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