CR 35 VE**T**win

The only ALL IN ONE Image Plate Scanner

Dental & Full body imaging
in one digital system

FROST & SULLIVAN

2014 BEST PRACTICES AWARD

GLOBAL
VETERINARY COMPUTED RADIOGRAPHY IMAGING
NEW PRODUCT INNOVATION LEADERSHIP AWARD

hand made in Germany

DÜRR MEDICAL

What is CR? How does it work?

Basics

Computed Radiography (CR) is the digital replacement of conventional analog X-ray film while maintaining the practice's existing workflow. The technology is more eco-friendly and reduces the time until the doctor has a diagnosable image. In addition, digital images can be shared directly with other users and easily archived.

Key advantages of CR include:

– Reusable IPs

– No dark room or chemicals required

– Exposure and processing times reduced

– Easy workflow and image optimization with imaging software

– Images are simple to share and archive

CR technology consists of a 3-step process

The image plate (IP) is exposed with X-ray radiation, which causes the phosphor layer in the plate to store a latent image.

During the scanning process, a focused laser beam in the device releases the latent image information stored on the plate in the form of visible light photons.

The emitted light is detected, captured and converted into electrical signals, which are digitized and then displayed as a digital image on the screen.

The internal in-line eraser removes the residual data from the IP, which is then ready for the next exposure.

Finely Focused Laser

The finely focused laser beam plays a crucial role when high resolution images are needed. To illustrate, imagine trying to draw a fine stroke with a broad brush.

This principle is the same for scanning with a fine laser beam. The finest lesions or fractures are visible only with a tightly-focused laser beam.

Why CR technology from DÜRR MEDICAL?

The **CR 35 VET*twin*** combines the best mobility, robust design and highest resolution for all applications of an innovative veterinary practice.

The scanner can be used for mobile and stationary work.

With its innovative DualFoc technology it is the best device for practices being active in both dental and full body imaging.

Perfect results are always guaranteed.

▶ **High resolution**

▶ **Cost reduction**

▶ **Improved workflow**

▶ **Increased efficiency**

Dual Focus Technology - What are the advantages?

DualFoc TECHNOLOGY

What is DualFoc technology?

Normally, image plate scanners only have a fixed laser beam diameter for capturing data from image plates.

With the new DualFoc technology from DÜRR MEDICAL, new optics make it possible for the first time to set two different laser beam diameters within the same scanner.

What is the advantage?

Unlike all other devices on the market, the **CR 35 VET*twin*** is the only scanner fully utilizing the properties of both intraoral and extraoral image plates.

Being limited to just one fixed laser beam diameter for scanning the image plate means you are forced to find a compromise between high resolution and low signal noise. Through the use of two different foci, it becomes possible for the first time, to define perfect parameters both for high-resolution intraoral plates and for the plates generally used for full-body images.

The operating principle

High resolution blue image plates for dental radiography are scanned automatically with a laser beam focused to 12.5 µm (25 lp/mm). This way images of unrivaled quality are created.

High resolution image plates
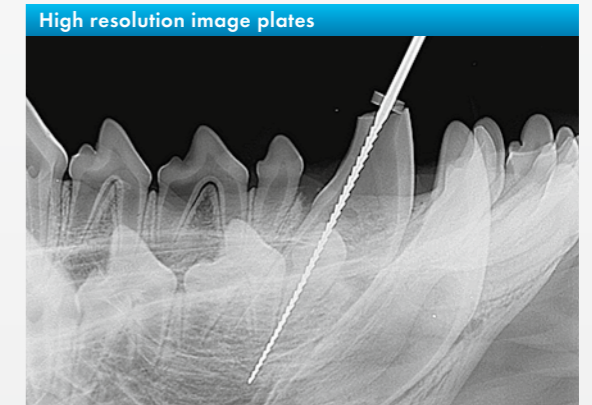
When conventional image plates are used for non-dental radiography, the laser beam diameter is focused to 50 µm (10 lp/mm), which guarantees brilliant low-noise images with high contrast for best diagnosis.

Conventional image plates
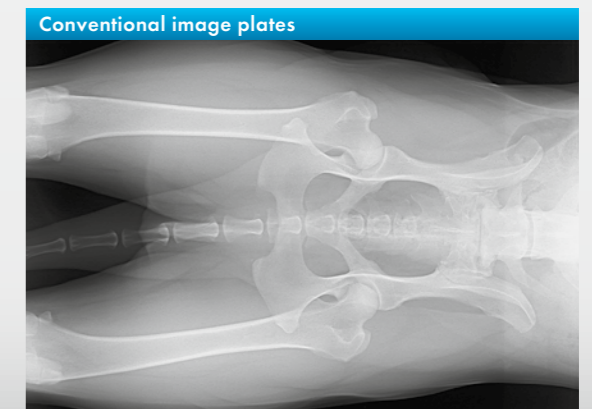
Benefit
Significant reduction of consumables

Acceptance
Perfect image quality – film-like or better

VET-specific
Intuitive operation, focused on the veterinary practice

Efficient
Workflow tailored to your needs

Crystal clear
Automatic laser adjustment for low-noise images

Intraoral
High resolution images for best diagnosis

Wireless LAN
Wireless connection to the network

Experience
Awarded technology proven in more than 25.000 units

CR 35 VET*win* • The portable solution for on-site operation

CR 35 VET*win* • Digital Radiography has never been this intelligent!

Impressive functions in a single device

Integrated display and mini-PC

In combination with the built-in mini-PC, the high resolution full-color display, integrated into the housing, allows to operate the device fully independently.

Internal storage or direct data transfer

For mobile operation, an SD memory card with up to 32 GB capacity can be used, enabling you to store several hundred images. For stationary operation, you can choose between WLAN or an Ethernet connection.

Battery operation

Using the optional external battery, it is possible to operate the device fully independently for a whole day.

▶ **High resolution display**

▶ **Integrated mini-PC**

▶ **Fully independent operation**

Workflow

Stationary operation

During stationary operation, all functions are controlled via the connected PC. Here the integrated touch screen enables the user to check patient and workflow.

Mobile operation

During mobile operation, the user is guided through the entire imaging process by easy to understand pictograms on the integrated touch screen.
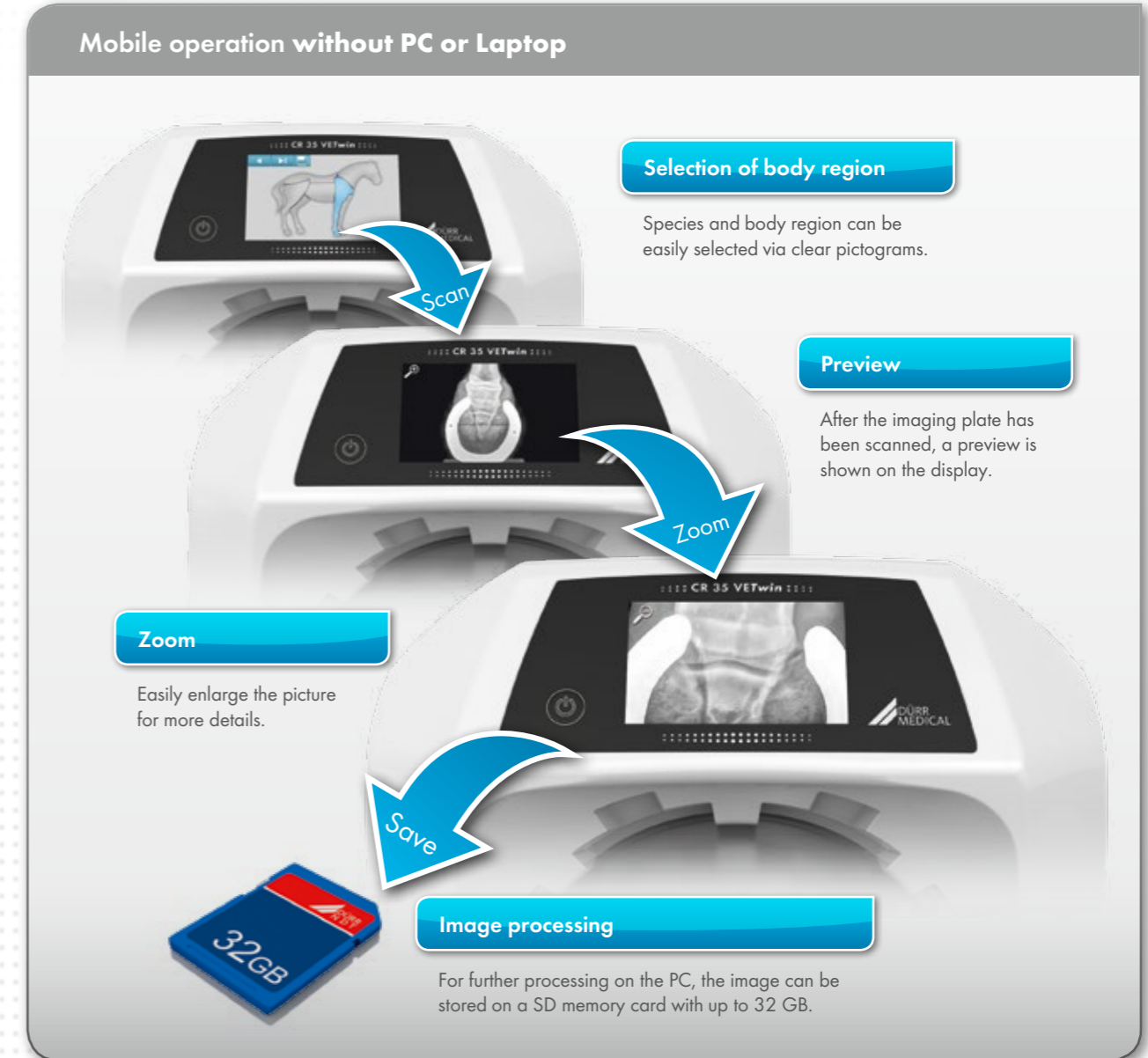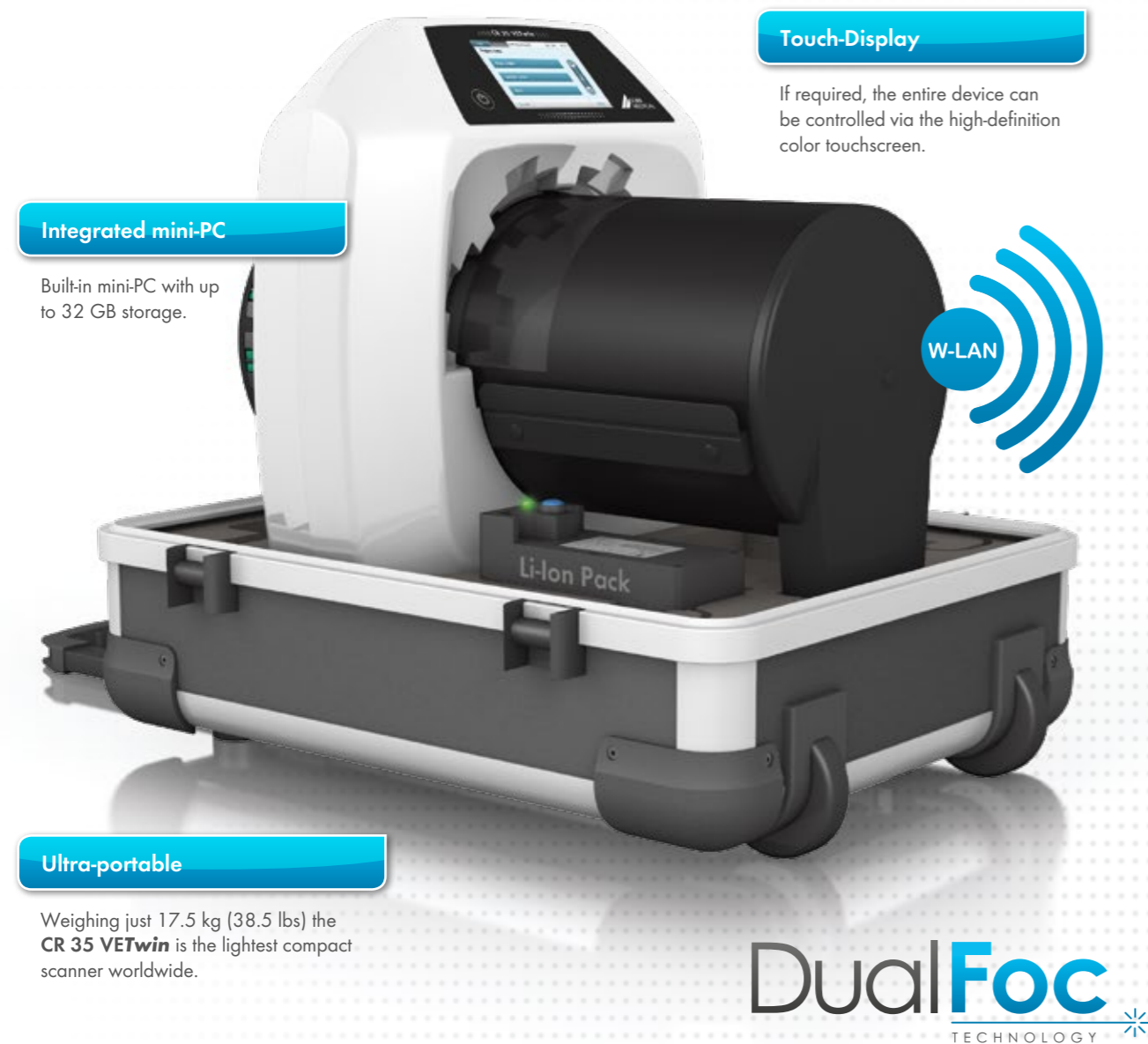
At the end of the process, the captured X-ray image is displayed on the screen as a preview. Based on this preview image, it may be decided whether the image can be used for diagnosis or if another exposure needs to be taken.

▶ **One device for everything**

▶ **Intuitive operation**

▶ **Flexible use**

Touch-Display

If required, the entire device can be controlled via the high-definition color touchscreen.

Integrated mini-PC

Built-in mini-PC with up to 32 GB storage.

W-LAN

Ultra-portable

Weighing just 17.5 kg (38.5 lbs) the **CR 35 VET*win*** is the lightest compact scanner worldwide.

Li-Ion Pack

DualFoc
TECHNOLOGY

Mobile operation **without PC or Laptop**

Selection of body region

Species and body region can be easily selected via clear pictograms.

Scan

Preview

After the imaging plate has been scanned, a preview is shown on the display.

Zoom

Zoom

Easily enlarge the picture for more details.

Save

Image processing

For further processing on the PC, the image can be stored on a SD memory card with up to 32 GB.

32GB

CR 35 VET*win* • The only ALL IN ONE Scanner

Technical data	CR 35 VET*win*
Dimensions (H x W x D)	40 x 37 x 47 cm / 15.8" x 14.6" x 18.5"
Weight	17.5 kg / 38.6 lbs
	28 kg / 62 lbs (including transport case and battery pack)
Electrical	100 - 240 V / 50 - 60 Hz, < 140 W
Laser spot	Dual-Focus technology: 12.5 µm (40 LP/mm) and 50 µm (10 LP/mm)
Grey levels	16 bit (65.536)
Max. Plate size	35 cm / 14" wide, length virtually unlimited
Laser class extern	I (EN 60825-1: 1994-03 + A1: 2002-07 + A2: 2001-03)
Temperature range	10 to 35 °C / 50 to 95 °F
PC connection	Ethernet (TCP-IP protocol) or wireless LAN
Storage	SDHC, max 32 GB
Display	4.3" LCD - Touch
Software	DÜRR MEDICAL Vet-Exam[plus]
IT-Requirements	For requirements refer to www.duerr-medical.com

Accessories

Transport Case

Lightweight case for scanner transport.

Battery pack

Lithium-ion battery for stand-alone operation.

Image plates (IP)

Full body image plates size 18 x 24 cm to 35 x43 cm. Dental image plates and cassettes in all standard sizes S0–S4 and Special IPs, including rabbit-formats.

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The Veterinary Dental Company