

# Processing intraoral images the digital way

INTRAORAL CAMERA SYSTEM VISTACAM DIGITAL

# Fully

# digital

**New ergonomic start by hand replaces the foot pedal**



*VistaCam Digital is the first fully digital intraoral camera that can create a live image without an additional base station directly via USB 2.0 in the PC or laptop – now without foot pedal.*



*The functions Still/Live and Save are actuated with a round sensor on the handpiece.*



*Dürr Iris Focus Control (IFC) – the perfect optic for extraoral and intraoral images as well as macro images.*

## VISTACAM



DÜRR  
DENTAL

# Impressive images are far more convincing

DIGITAL IMAGE QUALITY - EFFICIENT IMAGE COMMUNICATION

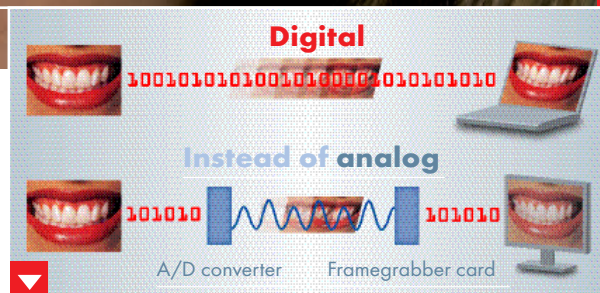


Ergonomic control by hand in all scanning situations

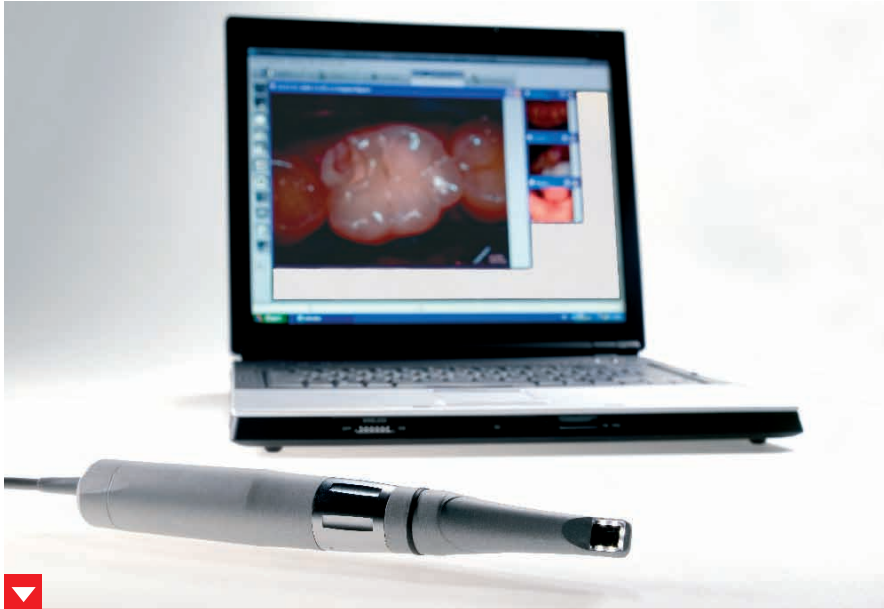
## VistaCam Digital – the fully digital alternative for all areas of application

Image communication in the surgery has now been considerably simplified: Boxes, units, foot pedals or additional PC cards, which are costly and time-consuming in installation, are now no longer needed. As of now, it is possible to transfer digital video images from the new Dürr VistaCam Digital without loss of detail. The results are brilliant:

- ▶ Precise and noise-free representation of the tiniest structures on the monitor, also for still images, thanks to a loss-free image transmission
- ▶ Pixel-free displays of intra and extraoral dental situations thanks to the highly advanced Dürr IFC optics – almost distortion-free at up to 100x enlargement
- ▶ Bright and true colour displays down to the molars through LED illumination at the camera tip and a light-sensitive CCD chip
- ▶ Plug & Play using USB 2.0 – simple and economical installation in the PC or laptop (medical product approval not required), without base station or frame grabber card
- ▶ At the same time, the new integrated actuation by hand now replaces the additional foot pedal



VistaCam Digital transfers images directly to the laptop or PC – with fully digital image quality and without any devices in between.



VistaCam Digital with actuation by hand – directly at the laptop with Dürr DBSWIN 4 via USB 2.0

## Versatile tool for winning and retaining patients

The VistaCam Digital incorporates new technology and expands the range of applications from diagnosis at the treatment chair and communication with the patient through to software-supported screen diagnosis and documentation for therapy support, for example in endodontics and surgery. The display of pin-sharp images right down to the root canal underlines this potential with preparations in the close-up area and identification of detail via the monitor down to 12 µm.



The new 360° actuation by hand offers optimum ergonomic control in all scanning situations.

## Ergonomic actuation by hand

The VistaCam Digital is equipped with a 360° control sensor, enabling the perfect use of the functions Still/Live and Save in all scanning situations. Even in the molar range of the upper jaw, this intraoral camera saves images without shaking with an excellent quality. The operator twists the camera, not the hand: Slight pressure on the 360° sensor freezes the image, a stronger pressure saves it. The sensitivity of the sensor can be adapted individually to each operator.

## Economical integration in the surgery

The cable-operated camera has a USB plug with an additional power supply. The separate power supply does not require PCs conforming to MPG guidelines. Integration into workstations will thus present no problems nor consequently will upgrading of existing treatment units in accordance with MPG.

## Dürr Iris Focus Control (IFC) – the highly advanced optic for extraoral and intraoral images as well as macro images.

- ▶ A quick twist simultaneously changes the iris and the focus (saving time and avoiding setting errors)
- ▶ Combination of iris opening and lens focusing geared to actual practice use ensuring optimum sharpness together with optimum image brightness at all times
- ▶ High depth of field avoiding need to refocus in the mouth for maximum time saving
- ▶ 3 ranges of sharpness – 1 lens (no need to change lenses)
- ▶ Automatic iris control for close-ups prevents overexposures
- ▶ Close-ups at 100x enlargement enable detecting of D1 lesions, cracking at the edges, cracks in the enamel
- ▶ High resolution for excellent recognition of detail down to 12 µm structure size



Adjustable metal ring enables a precise setting.

## Changing the application with just a quick twist

### Extraoral



Front teeth area after treatment

### Intraoral



Intra oral overview image

### Close-up



Close-up of a root canal

# Digital technology for excellent image quality

## INTRAORAL CAMERA SYSTEM VISTACAM DIGITAL

Technical data	VistaCam Digital
Resolution	470.000 pixels
Intraoral depth of field	24 mm, for structures down to 60 µm
Weight	200 g
Length of handpiece	207 mm
Diameter	max. 27 mm
Power supply	via additional cable to USB plug, power supply conforms to MPG
Transmission	3 m (+ optional 2 m) digital via USB 2.0 cable
Connections	USB 2.0
Multiple-user	operation Plug & Play, can be plugged in and unplugged
Optical system	6 LEDs with light-collecting lens, highly advanced optics, light-sensitive 1/4" color CCD sensor, non-fogging
Software	Dürr DBSWIN or other software with integrated video module
Image storage	Sensor integrated in the handpiece with the functions Still/Live, Save
Image display	correct reading or mirrored via PC/laptop
System solution	optimum PC/laptop solution; simple integration into existing treatment units

The Dürr VistaCam concept provides practice-oriented solutions. A suitable variant can thus be selected individually.

	Resolution (pixels)	IFC optics with close-up	Fully digital image transmission	Wireless camera solution (handpiece)	Video solution	PC capability	Multiple-user capability
VistaCam Digital	470.000	✓	✓	-	-	✓	✓
VistaCam CL	470.000	-	✓	✓	✓	✓	✓
VistaCam Freeze	470.000	-	✓	-	✓	-	✓
VistaCam Easy	320.000	-	-	-	✓	✓	✓



Image processing and archiving software  
Dürr DBSWIN 4



The power supply of the VistaCam Digital is ensured with a separate and direct power supply at the USB plug in accordance with MPG.



Optional: Foot pedal control set USB

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