

## VistaCam iX



Only trained experts may position and install the appliance and start it up for the first time.

### Minimum system requirements

Imaging program	VistaSoft, VistaConnect, DBSWIN or VistaEasy by Dürr Dental Third-party software on request
Computer system	See "System requirements for computer systems for imaging" (9000-618-148/01)



## 1 Connection to computer

The USB connecting cable for the connection to the computer is included in the delivery contents. When the power supplied using a cable alone is insufficient then the USB-connecting cable with power unit (order number 2108-150-52) or an active USB-Hub should be used.

To extend the cable to 10 m, you need:

- active Hub (no need for USB connection cable with power supply)
- USB repeater 4,8 m (Order-No. 2106-155-63)
- USB extension cord, max. 2,5 m



Where a Tower or Desktop-PC is being used then always use one of the USB-connections at the back of the PC. Do not connect the camera to a front USB-connection.

## 2 VistaSoft/VistaConnect

### 2.1 Installation

#### VistaSoft

The camera can be used directly after connection. The installation of a unit driver is not necessary.

#### VistaConnect

- > Start driver installation under *Start > All programs > Duerr Dental > Driver Setup > Install Dürr Dental drivers.*
- > Select the required language.  
The *Dürr Dental Driver Setup* installation wizard opens.
- > Follow the instructions of the installation wizard.

### 2.2 Configuration

The camera is preconfigured in the imaging software and can be used directly.

#### Setting-up the unit



The unit settings are only available for units with firmware version 1.9 and higher (from serial number C001929; update firmware if necessary).

#### Acquisition settings

Camera triggering	Time at which the still image is created if the capture ring is pressed: – Focus and capture on pressing – Focus and capture on release
-------------------	---

#### Standby settings

Standby time	Time until automatic switch-off if the camera is not moved. Preset: 2 minutes (120 seconds)
--------------	--

- > Click on *Units* [Geräte].
- > Working in the list, click on the unit *VistaCam iX*.
- > Click *Configure* [Konfigurieren].

- > Click *Unit settings*.
- > Select „Settings“.
- > Close Flyout to save the changes.

#### Test camera

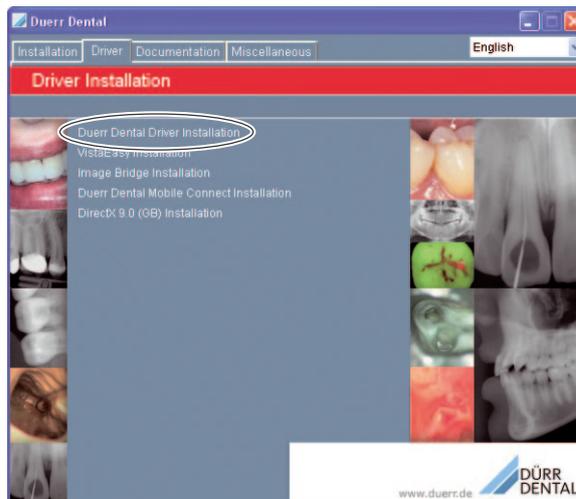
You can test the function of the capture ring and the recognition of the interchangeable head.

- > Click on *Units* [Geräte].
- > Working in the list, click on the unit *VistaCam iX*.
- > Click *Configure* [Konfigurieren].
- > Click on *Maintenance*.
- > Click on *Capture ring*.  
The option box is filled if the software recognises that the capture ring has been pressed.
- > Click on *Camera head*.
- > The option box is filled if the software recognises that the interchangeable head has been placed on.

## 3 DBSWIN/VistaEasy

### 3.1 Installation

- Close all programs.
- Insert the supplied DBSWIN DVD (from Version 5.2) into the DVD drive. The start screen appears.
- If the DVD does not start to play automatically, execute the file *CD\_Start.exe*.
- Select the required language.
- Open the *Driver* tab.



- Click *Duerr Dental Driver Installation*.



- Confirm the message with **OK**.  
The *Duerr Dental Driver Setup* installation wizard opens.
- Follow the instructions of the installation wizard.

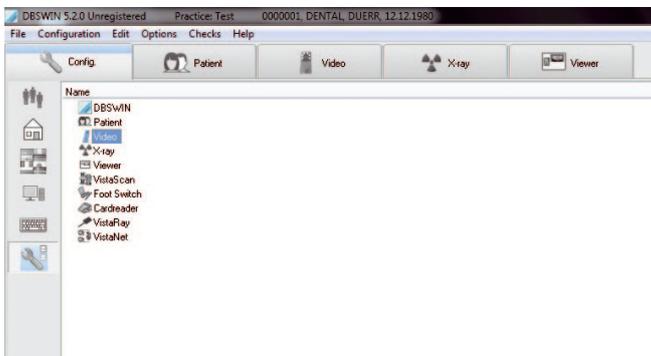
### 3.2 Configuration

The configuration differs depending on the imaging program used:

- DBSWIN: See „Setting up the configuration in DBSWIN“ (additional settings can be made in *VistaCamConfig*)
- VistaEasy and third-party software (e.g. Sidexis): See „Setting up the configuration in *VistaCamConfig*“

#### Setting up the configuration in DBSWIN

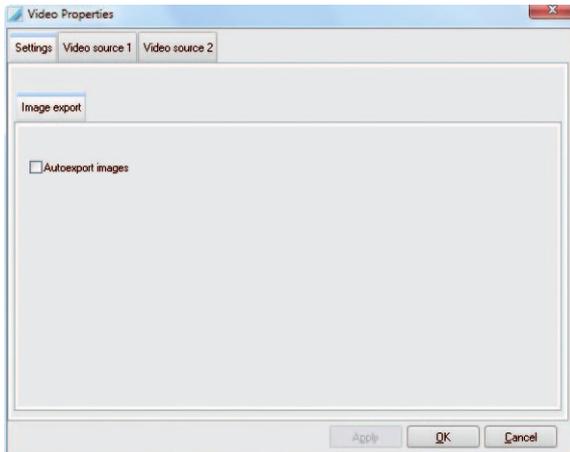
- Start DBSWIN.
- Choose *Options > Show configuration* from the menu.
- Click the *Modules* button.



- Double-click *Video*.  
The *Video Properties* window opens.

#### Setting up image export

- Go to the *Settings* tab.



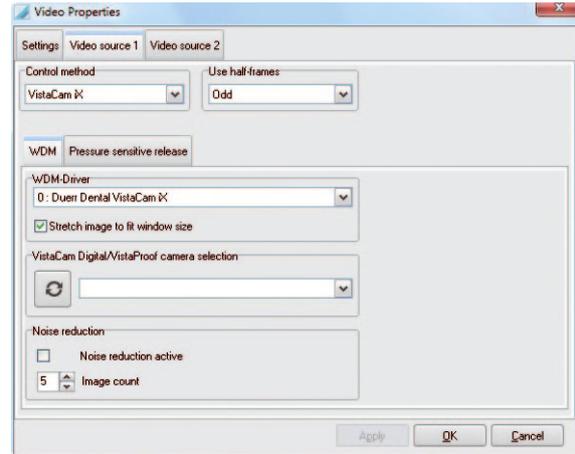
- Activate/deactivate *Autoexport images*.  
Each image is automatically copied to a defined path. The path, file format, and other settings can be made in the light table module.

#### Setting the video source

The camera is installed as *Video source 1*.

A second camera (e.g. *VistaCam CL.iX*) cannot be installed together with the *VistaCam iX*.

- Select option *Video source 1*.



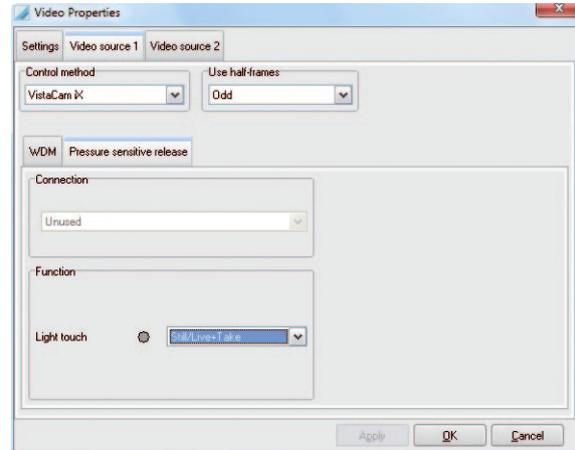
- Select *VistaCam iX*.
- In *Use half-frames*, select *Both (full frame)*.

#### Setting the WDM driver

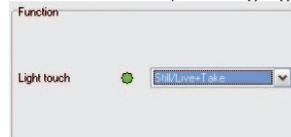
- Go to the *WDM* tab.  
The WDM-driver *Duerr Dental VistaCam iX* will automatically be selected.
- Activate/deactivate noise reduction.  
If noise reduction is active, the set number of images are captured one after the other for each imaging operation. The system uses these images to generate a new image that eliminates interference to the greatest extent possible.

#### Pressure sensitive release

- Go to the *Pressure sensitive release* tab.



- Select the function for the manual capture ring:
  - Record
  - Still/Live
  - Full
  - Activate
  - Press
  - Still/Live+Record (preset)
- Check manual capture ring signal using the control lighting.



#### Saving the configuration

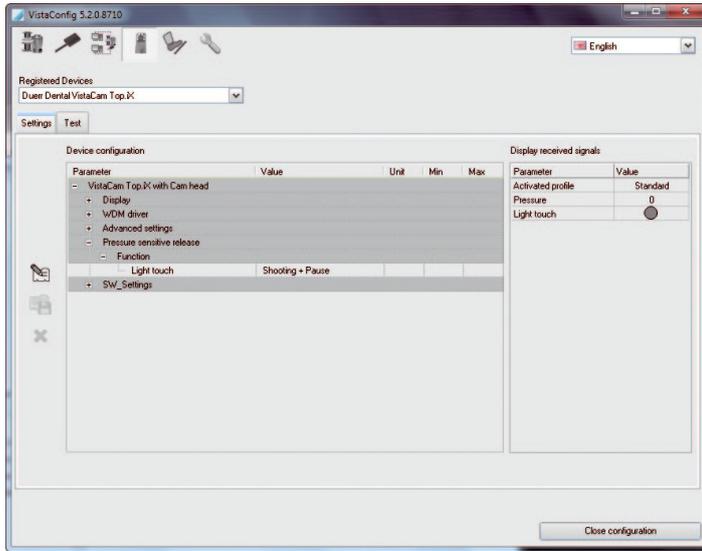
- Click *Apply*.
- Click *OK*.  
The window closes automatically.

## Setting up the configuration in VistaCamConfig

- Start VistaCamConfig using *Start > All programs > Duerr Dental > VistaConfig > VistaCamConfig*.  
The camera is automatically detected and activated.

## Changing settings

- Go to the *Settings* tab.



Display The best possible values are automatically entered here during the installation.

WDM driver The best possible values are automatically entered here during the installation.

## Advanced settings

LED intensity configuration Not possible with VistaCam iX. This setting has no effect.

## Pressure sensitive release

Function Select the function for the manual capture ring:

- Shooting
- Shooting + Pause (preset)
- Switch between Pause/Live
- Full image viewing

## SW\_Settings

CAM\_Activate\_Delay\_Time Time between removal from handpiece holder and activation of camera - the optimum value is preset.

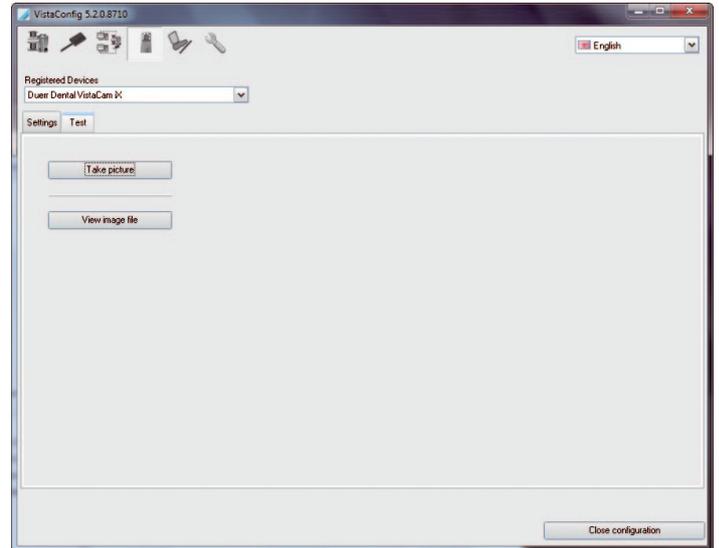
- To change the configuration, click .
- Change the settings.
- Check manual capture ring signal using the control lighting if necessary.

Display received signals	
Parameter	Value
Activated profile	Standard
Pressure	500
Light touch	<input checked="" type="radio"/>

- To save the configuration, click .
- To cancel the changes to the configuration, click .

## Testing the camera and configuration

- Go to the *Test* tab.



- Click *Take picture*.  
VistaEasyView starts up.
- Capture an image with the camera.
- Close VistaEasyView.
- To check the image file, click *View image file*.

## Saving the configuration

- Click *Close configuration*.  
The configuration is saved. The window closes.

## 4 Electrical safety test

- Carry out an electrical safety test in accordance with national and local regulations (e.g. measure the leakage current for the patient).
- Record the results.