Instructions for use Twain / WIA Software für DIAGNOcam 2170



Always be on the safe side.



#### Manufacturer:

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# Distributed by:

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1 Description of the Product | 1.1 Application area

# 1 Description of the Product

# 1.1 Application area

With the Twain / WIA software, the user can transmit DIAGNOcam images to other software such as to X-ray software or to image processing programs that support Twain or WIA.



#### Note

From today's perspective, we recommend using Twain as the application software or X-ray software run on 32 bit. WIA supports future 64 bit applications. WIA cannot be used on computers with XP operating systems.

## 2 Commissioning

**Requirement** Carry out installation as administrator!

2.1 Installation with XP, WIN 7 32/64 bit WIN 8 32/64 bit

This chapter describes the procedure following the insertion of the CD.

 Double click the file, DIAGNOcam.... .exe in the root directory of the CD. This starts the installation.

| 😵 Benutzerkontensteuerung 💦 🔭 |  |   |  |  |
|-------------------------------|--|---|--|--|
| ۲                             | Möchten Sie zu<br>unbekannten I<br>vorgenommen   | alassen, dass durch das folgende Programm von einem<br>Aerausgeber Änderungen an diesem Computer<br>a werden? |  |  |
|                               | Programminame:<br>Herausgeber:<br>Dateiursprung: | DIAGNOcamStandaloneCompleteSetup.V2.4.1.6456.exe<br>Unbekannt<br>CD/DVD-Laufwerk                              |  |  |
| ·                             | Details anzeigen                                 | Ja Nen  |  |  |
|                               |  | Anzeigezeitpunkt für die Benachrichtigungen ändern  |  |  |

• Confirm the user account control with "Yes", XP does not provide this window.

|   |                                   |                                     | and the second |   |
|---|-----------------------------------|-------------------------------------|--|---|
| 1 | Wählen Sie die<br>Installation be | e Sprache aus, d<br>nutzt werden so | lie während der<br>bll:  |   |
|   | Deutsch                           |                                     | 1  | • |

Select language and confirm with "OK".



Confirm setup by clicking "Continue".

| <b>el-Ordner wählen</b><br>Wohin soll KaVo DIAGNOcam Driver/              | TWAIN/WIA Wrapper in            | stalliert werden?            |
|---|---------------------------------|------------------------------|
| Das Setup wird KaVo DIAG  | NOcam Driver/TWAIN/W            | /IA Wrapper in den           |
| Klicken Sie auf "Weiter", um fortzufa<br>anderen Ordner auswählen möchter | hren. Klicken Sie auf "Di<br>n. | urchsuchen", falls Sie einen |
| C:\Program Files (x86)\KaVo\DIAGN   | OcamSetups                      | Durchsuchen                  |
|   |                                 |                              |
|   |                                 |                              |
| Mindestens 106,1 MB freier Speicher                                       | rplatz ist erforderlich.        |                              |

It is recommended to select the proposed folder and to proceed by clicking "continue".

| Setup - KaVo DIAGNOcam Driver,  | /TWAIN/WIA Wrappe          | r                       |                      |
|---|----------------------------|-------------------------|----------------------|
| Installationstyp auswählen<br>Welche Komponenten sollen install       | liert werden?              |                         |                      |
| Wählen Sie die Komponenten aus,<br>wenn sie bereit sind fortzufahren. | die Sie installieren möcht | en. Klicken Sie auf "We | eiter",              |
| Vollständige Installation   |                            |                         |                      |
| DIAGNOcam driver<br>Wia driver<br>TWAIN driver                        |                            | 24,<br>13,<br>1,        | 4 MB<br>4 MB<br>0 MB |
| Die aktuelle Auswahl erfordert min                                    | 1. 120,4 MB Speicherplatz  |                         | _                    |
|   | < <u>Z</u> urück           | <u>W</u> eiter > Al     | bbrechen             |

Select installation type according to the requirements of the imaging software, then proceed with "continue".

#### The installation procedure starts.

| $\sim$ |   |  |
|--------|---|--|
|        | • |  |
|        |   |  |
|        | ш |  |
|        |   |  |

### Note

The following window does not appear with XP, another window is displayed, confirm this by clicking "Continue installation".

| 📑 Windows-Sicherheit   |                                   | ×                      |
|--|-----------------------------------|------------------------|
| Möchten Sie diese Gerätesoftware installieren?   |                                   |                        |
| Name: Cypress Bildverarbeitungsgeräte<br>Herausgeber: NET New Electronic Technology Vertriebs                                    |                                   |                        |
| Software von "NET New Electronic Technology Vertriebs<br>" immer vertrauen   | Installieren                      | Nicht installieren     |
| Sie sollten nur Treibersoftware von vertrauenswürdigen Herausgebern insta<br>Gerätesoftware bedenkenlos installiert werden kann? | illieren. <u>Wie kann festo</u> e | estellt werden, welche |

The driver is installed by clicking "Install"



### Note

The following window does not appear with XP, another window is displayed, confirm this by clicking "Continue installation".

| 📑 Windows-Sicherheit   |  | ×                                       |
|--|--|---|
| Möchten Sie diese Gerätesoftware installieren?   |  |   |
| Name: KaVo Dental GmbH Bildverarbeitung<br>Herausgeber: KaVo Dental GmbH                                       | sgeräte                                    |   |
| Software von "KaVo Dental GmbH" immer vertrauen  | Installieren                               | Nicht installieren                      |
| Sie sollten nur Treibersoftware von vertrauenswürdiger<br>festgestellt werden, welche Gerätesoftware bedenken! | n Herausgebern ins<br>os installiert werde | stallieren. <u>Wie kann</u><br>en kann? |

• Software is installed with continue "Install", the installation procedure starts.

| Microsoft Wi                        | ndows   | X  |  |
|-------------------------------------|---|--|--|
| Der Com<br>damit die<br>Speichern S | puter muss neu gestart<br>Änderungen wirksam<br>ie alle geöffneten Dateien, und | tet werden,<br>werden.<br>I schließen Sie alle |  |
| Programme                           | Jetzt neu starten   | Später neu starten                             |  |

Select "Restart later"

2 Commissioning | 2.2 Driver installation of the USB user interface only for XP

It is recommended to restart the computer.
Select "Yes, restart computer now" and click "Finish".



2.2 Driver installation of the USB user interface only for XP



### Note

Every USB user interface must be installed on the PC / laptop the first time with XP only. This is no longer necessary with WIN 7 or WIN 8.

2 Commissioning | 2.2 Driver installation of the USB user interface only for XP

From the DIAGNOcam, connect the USB cable with the PC / laptop, the following window opens:

| Assistent für das Suchen neuer Hardware |  |  |  |
|---|--|--|--|
|   | Willkommen   |  |  |
|   | Es wird nach aktueller und aktualisierter Software auf dem<br>Computer, auf der Hardwareinstallations-CD oder auf der<br>Windows Update-Website (mit Ihrer Erlaubnis) gesucht.<br>Datenschutzrichtlinie anzeigen |  |  |
|   | Soll eine Verbindung mit Windows Update hergestellt werden,<br>um nach Software zu suchen?   |  |  |
|   | 🔘 Ja, nur diese eine Mal   |  |  |
|   | OJa, und jedes Mal, wenn ein Gerät angeschlossen wird  |  |  |
|   | 🚫 Nein, diesmal nicht  |  |  |
|   | Klicken Sie auf "Weiter", um den Vorgang fortzusetzen.   |  |  |
|   | <zurück weiter=""> Abbrechen</zurück>  |  |  |

 Select assistant for hardware search "No, not this time" and proceed with "continue".

| Assistent für das Suchen neuer Hardware |   |  |
|---|---|--|
|   | Mit diesem Assistenten können Sie Software für die folgende<br>Hardwarekomponente installieren:<br>KaVo DIAGNOcam |  |
|   | <zurück weiter=""> Abbrechen</zurück>   |  |

2 Commissioning | 2.2 Driver installation of the USB user interface only for XP

Select "Automatically install software" and proceed with "continue".



Select "Continue installation" and continue.

| Assistent für das Suchen neuer Hardware |   |  |  |  |
|---|---|--|--|--|
|   | Fertigstellen des Assistenten                                   |  |  |  |
|   | Die Software für die folgende Hardware wurde installiert:       |  |  |  |
|   | KaVo DIAGNOcam  |  |  |  |
|   | Klicken Sie auf "Fertig stellen", um den Vorgang abzuschließen. |  |  |  |
|   | < Zurück Fertig stellen Abbrechen                               |  |  |  |

• Complete installation by clicking "Finish".

3 Operation | 3.1 Description user interface

# 3 Operation

## 3.1 Description user interface

- Plug in DIAGNOcam.
- Start the external software.
- Start from this SW Twain application (procedure according to the relevant SW).



### Note

Please use WIA if the software does not support TWAIN



Window 1 top left: Current live image Window 2 top right: Saved image Window 3 bottom: Selection bar for saved images

# 3.2 Changing the window size

- The window size can be changed by clicking and shifting the frame.
- This can be reversed by clicking the symbols "Reset layout" in the top bar of the screen.

# 3.3 Creating images

- Images can be saved by clicking the symbol "capture" or by a mouse click in window 1 or by activating the ring switch on DIAGNOcam.
- These are displayed in window 2 and in window 3 in the 1. position on the left. Further images are displayed in window 3 in the 1. position on the left whereby the previous images are shifted one position to the right.

3 Operation | 3.4 Comparing images



## Note

If the ring switch or capture is activated in the clipboard, only black images are saved.

## 3.4 Comparing images

Saved images in window 3 are displayed by clicking in window 2 and can be compared with the live image.

#### 3.5 Transmit to external X-ray software

Mark the images to be transmitted in window 3 by clicking (images will acquire blue frames) and transmit to external software by clicking the symbol "Save selected images".



#### Note

- Impact of the application or X-ray software on the image transmission
- 1. Although several images have been selected, only one can be transmitted.
- 2. The image selection sequence does not match with the image transmission sequence.
- 3. Availability of the images following the image transmission.
- 4. Twain/WIA does not close automatically after the image transmission.



Symbol "Capture", recording of images



Symbol "Select all", all images in window 3 are marked



Symbol "Save selected images", marked images are transmitted to the external software (X-ray software).



Symbol "Disable ring switch", ring switch is activated/deactivated by DIAGNOcam. 3 Operation | 3.5 Transmit to external X-ray software



#### Symbol "Camera options", selection of the control panel camera options

| /ideoProcAmp       |         |          |              |   |
|--------------------|---------|----------|--------------|---|
| Camera Controls:   |         |          | Auto         | - |
| Prinkhusse         |         | 128      |              |   |
| Contrast           |         |          | - <b>-</b> - |   |
| AGC:               | 100     | 0        | ~            |   |
| AEW:               |         | 140      |              |   |
| AEB:               |         | 130      | - F          |   |
| AEC                |         | <i></i>  |              |   |
| 🔽 AEC dig. Averagi | ng      | 🔽 Flip H | orizontal    |   |
| ✓ Sharpness        |         | 🔽 Flip V | ertical      |   |
| default            | DX Vers | ion:     |              |   |
|                    |         |          |              |   |

If the teeth are displayed too brightly, we recommend changing the AEW values accordingly.

By clicking "default", the values are reset to the factory setting.



Symbol "Delete images on close", on activation, all images are deleted after the closing of TWAIN/WIA.



Symbol "Reset layout", resetting of changed window sizes.



Symbol "Delete selected images", marked images are deleted.



Symbol "Close", Twain/WIA is closed.

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