



[www.dtco.vdo.com](http://www.dtco.vdo.com)

# DLKPro Inspection Key

Advanced Digital Tachograph Solution for legal checks

**VDO**

# Content

<b>1 General information .....</b>	<b>3</b>	<b>9 Technical specifications.....</b>	<b>41</b>
<b>2 DLKPro Inspection Key .....</b>	<b>5</b>	System requirements .....	41
Package contents .....	5	File extensions .....	41
Product overview .....	5	UTC time .....	41
<b>3 Getting started with the DLKPro .....</b>	<b>6</b>	Cleaning and maintenance .....	42
Synchronising the clock and downloading data for the first time .....	6	Reset function .....	42
Switching on the DLKPro .....	7	Disposal .....	42
Switching off the DLKPro .....	7	Declaration of Conformity .....	42
Charging the battery .....	7	Technical data .....	43
Creating a backup copy on the SDHC™ card .....	8		
<b>4 Performing a (roadside) inspection .....</b>	<b>9</b>		
<b>5 Downloading data .....</b>	<b>12</b>		
Downloading mass memory and driver cards .....	13		
Downloading a driver card with the DTCO 1381, Rel. 1.4 and later releases ..	14		
Downloading a driver card using the integrated chip card reader .....	15		
<b>6 The screen – the first data check .....</b>	<b>16</b>		
The screen elements .....	16		
Screen navigation .....	16		
The menu .....	17		
Selecting the tolerance profile .....	18		
Displaying possible infringements (driver card data) .....	19		
Displaying suspicious events (mass memory data) .....	19		
The icons and what they mean .....	20		
<b>7 Connecting to the computer.....</b>	<b>23</b>		
<b>8 “DownloadTools” PC programme.....</b>	<b>26</b>		
Displaying, checking and printing suspicious events .....	28		
Configuring the DLKPro and the infringement analysis .....	32		
Getting support .....	37		

# 1 General information

## **Caution – Danger of explosion!**

Please note that when using the DLKPro in vehicles used for the transport of hazardous goods and/or in areas which may be endangered by explosions, the following safety regulation must be adhered to: During loading and unloading of hazardous goods, the cover of the download interface must be closed. This means that no connection to the digital tachograph may exist and data downloading must **not** take place.

**Caution:** To prevent damaging the DLKPro, bear the following in mind:

- Do not use sharp-edged or pointed objects, e. g. ballpoint pens on the touch screen.
- Only insert authorised cards into the card slot. Cards with embossed printing and metallic cards may damage the card slot of the integrated chip card reader.

**Note:** The DLKPro is available in four versions:

- DLKPro Download Key,
- DLKPro TIS-Compact,
- DLKPro Inspection Key and
- DLKPro TIS-Compact (EE).

## **Social legislation and directives**

**Note:** The data will be checked for compliance with Regulation (EC) No. 561/2006, the European Commission Recommendation of 23rd January on best practice guidelines for checking digital tachographs (2009/60/EC) and Directive 2009/5/EC of 30th January 2009; see page 44.

## **Legal download obligation**

**Note:** Digital tachograph and driver card data must be regularly downloaded.

Please observe the regulations in force in your country for download intervals and for the data blocks which must be downloaded.

## **Archiving obligation**

**Note:** You must keep the downloaded files for the duration of the legally prescribed period.

Please observe the regulations in force in your country for archiving mass memory and driver card files.

## **Data transfer**

**Caution:** The DLKPro must never be pulled out of the download interface or removed from the computer during data transfer. The loaded data and the configuration files could be corrupted. Always wait until the data transfer process has finished.

**Note:** Do not use the DLKPro's USB interface while data is being downloaded from the digital tachograph or during the card download process. Otherwise the data download process will be aborted.

**Note:** Ensure that the DLKPro is not inserted while the vehicle is being driven. Otherwise the view of the digital tachograph display could be restricted. The DLKPro and the download interface of the digital tachograph could also be damaged in a collision, or if accidentally struck.

## Data protection

The Data Protection Act requires personal data to be protected from fraudulent use by third parties. Any infringement of the Data Protection Act will be prosecuted.

**Note:** Please take the following security precautions to protect your personal data:

- Use a password to protect the download files stored on the DLKPro from third-party access.
- Do not give your password to third parties.
- Change your password regularly.
- Keep your password in a safe place.

## Disposal

**Note:** Due to the integrated rechargeable battery in the device, legal regulations which go beyond the laws regarding the disposal of electronic devices must be adhered to.

*Disposal in household waste is prohibited!*

*Please take the DLKPro to a collection point for professional disposal or contact your service partner.*

## 2 DLKPro Inspection Key

The DLKPro product family by VDO sets new standards for mobile checks for suspicious events, data downloading and archiving.

With the DLKPro you can download mass memory and driver card data and view and evaluate suspicious events from driver and vehicle checks either directly on the screen or in the "DownloadTools" PC programme.

### Package contents



The package contains:

- 1 DLKPro Inspection Key with
  - the option of carrying out checks for suspicious events directly on the screen,
  - comprehensive software for configuring, visualising, evaluating and archiving digital tachograph data,
  - operating instructions.
- 2 USB extension cable
- 3 Download leaflet

### Product overview



- 1 USB plug cover
- 2 LED indicating the operating status
- 3 Push button for switching the DLKPro on and off
- 4 Screen with touch function
- 5 6-pin download plug
- 6 6-pin download plug cover
- 7 Chip card reader
- 8 Card slot for SD™ or SDHC™ card
- 9 USB 2.0 plug (type A)
- 10 Reset button

# 3 Getting started with the DLKPro

With the DLKPro you can

- download driver cards via the integrated chip card reader; see page 15.
- check the data shown on the screen – immediately after card downloading (card check) – to determine whether or not it contains infringements of Regulation (EC) No. 561/2006 (**Activities** data block) and/or signs of suspected tampering exist (**Events and Faults** data block relating to the driver card); see page 19.
- carry out a quick check on the digital tachograph if, for instance, the quick check of the driver card has revealed any signs of suspected tampering; see page 9.
- download the digital tachograph's mass data to perform any further checks, e. g. for checking the speed data; see page 13.
- use the PC programme to immediately determine whether or not any suspicious events detected during the initial analysis of driver card or mass memory data are revealed; see page 28.
- use the PC programme to specify the tolerance values for the suspicious event check; see page 36
- use the PC programme to check whether or not the data has been downloaded without errors; see page 40.
- process and manage the download files in accordance with the pertinent legal regulations; see page 31.

## Synchronising the clock and downloading data for the first time

The DLKPro has an integrated real-time clock, which is based on UTC time. The first time the device is connected to a digital tachograph the clock is automatically synchronised – provided that a company card, control card or workshop card is inserted in the digital tachograph.

**Note:** Before using the DLKPro to check drivers and vehicles, you should

- specify the tolerances for the infringement and suspicious event checks (see page 36) and
- check the Inspection Key's configuration to ensure that the data blocks required for the quick check are downloaded; see page 33.

If you do not make any amendments here, the default factory values will be used for the check.

- 1 Insert your company card, control card or workshop card into the digital tachograph.

- 2 Plug the DLKPro into the digital tachograph; see page 12.

The mass memory and driver card data is downloaded.

The clock is synchronised.

You can carry out a first check of the downloaded data directly on the screen or examine it thoroughly using the "DownloadTools" PC programme; see page 16 and page 28.

## Switching on the DLKPro

- 3** Switch on the DLKPro by
- pressing the on-off button; see page 5.
  - inserting a card into the chip card reader; see page 15.
  - connecting the DLKPro to the download interface of a digital tachograph; see page 13.

**Note:** You cannot operate the screen during data download.

The DLKPro can be operated either by means of an external power supply (vehicle) or the integrated rechargeable battery.

**Note:** Before you use the DLKPro for the first time, please charge the battery. The battery is fully charged after approx. 2 hours. If the battery charge level is well below the limit of 30 %, the LED will flash green/red every 30 minutes for around 3 seconds, even if the DLKPro is not being used. The battery cannot be charged while data is being downloaded.

## Switching off the DLKPro

- 4** Switch off the DLKPro by pressing the on-off button; see page 5.

**Note:** To save battery power, the DLKPro switches itself off automatically after 20 seconds of inactivity.

## Charging the battery

Battery power is needed for

- the real-time clock,
- the integrated chip card reader and
- the screen.

Each time the DLKPro is plugged into the computer, its battery is automatically charged. During charging, the LED on the DLKPro flashes orange.

Battery power is not needed to download digital tachograph data. The download will function irrespective of the battery's charge level. If the charge level is very low, however, use of the screen display will be limited or even impossible.



- 5** If possible, leave the DLKPro plugged into the computer when you finish working with it – this will charge the integrated rechargeable battery e. g. for the next card download.

**Tip:** If you use a USB hub as a DLKPro connection, make sure that the hub has its own power supply. Otherwise the DLKPro's battery can only be charged with a minimal charging current.

## Creating a backup copy on the SDHC™ card

If an SDHC™ card is inserted, a backup copy of the data is stored on it after the data download has finished.



- 6** If you require a backup copy, insert an SDHC™ card into the card slot.  
The DLKPro screen is facing upwards; the contact points of the SDHC™ card are facing downwards; the angled corner is on the right.

**Note:** You can use either an SD™ or an SDHC™ card. The cards are not included in the package. When using an SD™ card, please remember that the card's memory capacity may not be 128 MB (memory capacity of the KEYTOOLS partition). Otherwise the DLKPro will not recognise the existing partition and the configuration software cannot be started. In these Operating Instructions, 'SDHC™ card' also means an 'SD™ card'.



## 4 Performing a (roadside) inspection

An inspection includes:

- carrying out an initial analysis of the driver card using the integrated chip card and checking the data on the touch screen (card check).
- performing a quick check on the digital tachograph (downloading the mass memory data if necessary) and viewing the data on the screen.
- checking any suspicious events using the “DownloadTools” PC programme.

### ✓ Requirements:

- The DLKPro’s real-time clock is synchronised; see page 6.
- The DLKPro’s battery has been sufficiently charged for card downloading and screen operation; see page 7.
- You have specified tolerance values for the suspicious event checks and configured the data block download settings using the PC programme; see pages 36 and 33.

**Note:** If you haven’t adjusted the tolerance values and configured the data download yet, the default factory values will be used for the check.

- 1 Switch the DLKPro on by pressing the on-off button.



- 2 Choose **Settings > Tolerance settings** and check which tolerance profile has been selected. Select a different tolerance profile if necessary.

**Note:** When downloading is complete, the driver card and mass memory data will be analysed based on the tolerance values of the selected tolerance profile.

- 3 Use the integrated chip card reader to transfer the driver card data to the DLKPro.



A progress bar shows how the download is progressing.

When the download has finished, the Inspection Key checks whether or not the card data reveals

- infringements of Regulation (EC) No. 561/2006 (**Activities** data block) and/or
- signs of suspected tampering (**Events and Faults** data block relating to the driver card).

Suspicious events are denoted by

- intermittent beeps and
- a red LED.

The result of the check is displayed on the screen.



- \* If no suspicious event is shown on the DLKPro screen (green LED and beeps indicating a successful download), you can terminate the check now.



- 4 Carry out a quick check on the digital tachograph if
- the initial analysis of the driver card has revealed an infringement (red LED, intermittent beeps) and
  - the speed data should be analysed.

**Note:** The following data blocks will be downloaded for the quick check:

- *Technical Data,*
- *Events and Faults,*
- *Detailed Speed,*
- *Activities of the past 2 days.*



**Note:**

- *Before downloading data from a digital tachograph, you must read and strictly observe the General Information on page 3.*
- *A quick check and (if necessary) downloading the data from the digital tachograph are only possible if a company card, control card or workshop card is inserted in card slot 2.*

- \*\* If no suspicious events are shown after the quick check (green LED, beeps indicating a successful download), you can terminate the check and remove the DLKPro from the digital tachograph.



- 5** Any suspicious events detected during the quick check, e. g. exceeding of the programmed maximum speed, are indicated by
- intermittent beeps and
  - a red LED.
- You can now download the mass memory based on your configuration; see page 33.

**Note:** *If, after the quick check, the DLKPro remains plugged in for more than 10 seconds, the mass memory download will start automatically – based on the specified configuration.*

- 6** Create a digital tachograph printout of the **Events and Faults, Technical Data** and (if possible) the **Speed** data blocks.
- 7** Check the downloaded driver card and mass memory data using the “DownloadTools” PC programme; see page 28.

**Note:** *Always check infringements found with the printouts from the digital tachograph. If you are a TIS-Web® or TIS-Office® user, you can use these programmes to carry out further data evaluations.*



## 5 Downloading data

With the DLKPro you can download the following data:

- the complete contents of the mass memory (data from at least 365 days),
- mass memory data covering a specified period and including specific data blocks,
- the contents of a driver card inserted in the digital tachograph (driver data from at least 28 days),
- the contents of a driver card inserted in the chip card reader (driver data from at least 28 days).

**Note:**

- Before downloading data from a digital tachograph, you must read and strictly observe the General Information on page 3.
- Downloading data from digital tachographs is only possible if a company card, control card or workshop card is inserted in card slot 2 for instance.
- The exception to this rule is the driver card download:  
You can download driver card data from the DTCO 1381 Rel. 1.4 or a later release without inserting one of these cards.

**Note:** Please remember that the provisions for identifying download files in France and Spain differ from those in other European countries. Check the DLKPro's configuration before using the DLKPro for data downloading.

## Downloading mass memory and driver cards

- 1 Insert your company card, control card or workshop card into the digital tachograph.
- 2 Open the cover of the digital tachograph's download interface.
- 3 Remove the cover from the DLKPro's download plug.
- 4 Insert the DLKPro's download plug into the download interface of the digital tachograph. When the DLKPro is connected, its LED flashes green.
- 5 When the data has been transferred, remove the DLKPro from the download interface. Replace the cover, close the download interface of the digital tachograph and remove your company card, control card or workshop card from the digital tachograph.

You can then view and evaluate the downloaded data either on the screen or using the "DownloadTools" PC programme; see pages 16 and 28.

**Note:** If the download was not successful, the LED on the DLKPro flashes red and intermittent beeps can be heard.

- In this case, check whether or not the DLKPro has enough memory available; see page 17.
- Try the download again. If the download fails a second time, use the PC programme to collect the support files and contact your service partner; see page 38.



A progress bar shows how the download is progressing. When the download has finished, the LED on the DLKPro remains green and beeps indicate that the download was successful; see note on page 13.

**Note:** If a driver card is inserted in the digital tachograph, its contents – together with the tachograph's mass memory – are downloaded automatically.

## Downloading a driver card with the DTCO 1381, Rel. 1.4 and later releases

**Note:** With the DTCO 1381, Rel. 1.4 and later releases, you can download driver card data without inserting a company card, control card or workshop card.

- 1 If the driver card has not yet been inserted into the DTCO, please insert it now.
- 2 Open the cover of the DTCO's download interface.
- 3 Remove the cover from the DLKPro's download plug.
- 4 Insert the DLKPro's download plug into the download interface of the DTCO.  
When the DLKPro is connected, its LED flashes green.



A progress bar shows how the download is progressing.  
When the download has finished, the LED on the DLKPro remains green and beeps indicate that the download was successful; see note on page 14.

- 5 When the data has been transferred, remove the DLKPro from the download interface.  
Replace the cover and close the DTCO's download interface.

You can then view and evaluate the downloaded data either on the screen or in the "DownloadTools" PC programme; see pages 16 and 28.

**Note:** If the download was not successful, the LED on the DLKPro flashes red and intermittent beeps can be heard.

- In this case, check whether or not the DLKPro has enough memory available; see page 17.
- Try the download again, e. g. with the chip card reader.

If the download fails a second time, use the PC programme to collect the support files and contact your service partner; see page 38.

## Downloading a driver card using the integrated chip card reader

Using the integrated chip card reader, you can transfer the data of a driver card straight to the DLKPro

### Notes:

- Before the first card download, connect the DLKPro to the digital tachograph and carry out a mass memory download.
- Please remember to charge the battery for the card download.

**Note:** Card download is not possible if the DLKPro is plugged into the computer.

**Note:** You can also use the integrated chip card reader to download data from company cards, control cards and workshop cards.

- 2 When data transfer has finished, remove the driver card.

You can then view and evaluate the downloaded data either on the screen or using the "DownloadTools" PC programme; see pages 16 and 28.

**Note:** If the download was not successful, the LED on the DLKPro flashes red and intermittent beeps can be heard.

- In this case, check whether or not the DLKPro has enough memory available; see page 17.
  - Try the download again, e.g. using the digital tachograph.
- If the download fails a second time, use the PC programme to collect the support files and contact your service partner; see page 38.

### Downloading driver card data

- 1 Insert the driver card into the integrated chip card reader with the chip facing upwards and the arrow pointing in the direction of the reader. Card download starts automatically.



A progress bar shows how the download is progressing.

When the download has finished, the Inspection Key checks whether or not the card data reveals

- infringements of Regulation (EC) No. 561/2006 (**Activities** data block) and/or
- signs of suspected tampering (**Events and Faults** data block relating to the driver card).

Suspicious events are denoted by

- intermittent beeps and
- a red LED.

# 6 The screen – the first data check

The DLKPro screen lets you view the downloaded data immediately on site.

## The screen elements



- 1** Navigation bar  
The navigation bar shows you the currently selected menu level. Touching this bar will return you to the higher level menu at any time.  
If you want to return to the main menu, keep your finger on the bar until the main menu is displayed.
- 2** Time display
- 3** Status icons  
The icons on the status bar show you at a glance

  - how much memory has been used,
  - the battery charge status,
  - whether an SDHC™ is inserted.
- 4** Display area  
This area is reserved for displaying menus and data.  
Use your finger to navigate the menu.

## Screen navigation

Navigate on the screen by selecting the icons with your finger.

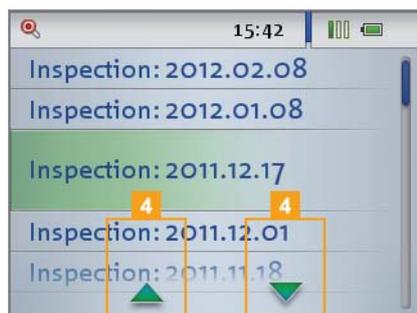
**Note:** Only use your finger for navigation. Please do not use any sharp-edged or pointed objects.

- 1** Switch the DLKPro on by pressing the on-off button.  
The screen display area shows the main menu.

**Note:** The texts shown on the screen are always displayed in the dialogue language that you selected last.  
Set the dialogue language via **Settings > Languages**.  
The newly selected language is shown immediately.



- 2** Press ◀ or ▶ to select a different menu.
- 3** Confirm your selection with your finger.



4 Press ▲ or ▼ to select an item from a list.



5 Confirm your selection with your finger.



6 Press ◀ or ▶ to scroll.

7 Press the navigation bar to return to the higher level menu.

## The menu

You can select one of the following menus:

- **Viewer**
- **Settings**
- **Info**
- **Infringements**

 The **Viewer** menu shows you information about the mass memory and driver card files stored on the DLKPro.

You can check

- when the DLKPro was last used to download data from a specific vehicle or driver card.
- when the next download of a specific vehicle or driver (card) is due.



 Use the **Settings** menu to select

- the screen dialogue language.
- the tolerance values to be used for the quick check and the infringement (breach) analysis.

Any changes are applied immediately and the new settings will be valid each time you switch on the device.



 The **Info** menu provides the following information:

- DLKPro version used
- Firmware version
- Serial number
- Free memory capacity on the DOWNLOADKEY partition that is available for further downloads



- The **Infringements** menu shows information about infringements and suspicious events discovered during the driver and vehicle check; see page 44. You can check whether or not
- a driver has committed any infringements of Regulation (EC) No. 561/2006 (driving times and rest periods).
  - signs of suspected tampering with the digital tachograph exist.
  - the maximum permitted speed programmed in the digital tachograph was exceeded.

**Note:** *Suspicious events detected for a vehicle do not necessarily relate to the driver whose driver card you have checked. Always verify the infringements (suspicious events) found against a digital tachograph printout, an infringement analysis in TIS-Web<sup>®</sup>, TIS-Office<sup>®</sup> or a third-party software product.*

## Selecting the tolerance profile

During a driver or vehicle check, the DLKPro analyses the downloaded data based on the previously selected tolerance profile.

- 1 Switch on the DLKPro by pressing the on-off button, choose the **Settings** menu and then the **Inspection Profiles** sub-menu. A list is displayed of all the tolerance profiles stored on the DLKPro.



- 2 Select the tolerance profile you want to use for the next driver or vehicle check.

**Note:** *You can create tolerance profiles in the PC programme (**Configuration** (module) > **Inspection profile** (tab)).*

## Displaying possible infringements (driver card data)

After the driver card download you can display any infringements of Regulation (EC) No. 561/2006 (driving times and rest periods) on the screen.

- 1 You want to display the data at a later date:
  - Switch the DLKPro on by pressing the on-off button.
  - Open the **Infringements** menu.
  - Select a day.  
A list is displayed of all the drivers and vehicles for whom/which data was downloaded on that particular day using the DLKPro.

- 2 Select a driver.



- 3 Press ► to switch to the evaluation of infringements of Regulation (EC) No. 561/2006 relating to driving times (⊕) and rest periods (⊖).  
The device shows whether or not infringements have been detected for the following periods:
  - current shift (24h),
  - current week ( I ),
  - current two-week period ( II ).

**Note:** Infringements of driving times and rest periods are denoted by a red signalling disc (🚫); see page 44.

## Displaying suspicious events (mass memory data)

After a quick check or mass memory download, you can check on the screen whether or not suspicious events exist (signs of suspected tampering with the digital tachograph or of exceeding the programmed speed).

- 1 You want to display the data at a later date:
  - Switch the DLKPro on by pressing the on-off button.
  - Open the **Infringements** menu.
  - Select a day.  
A list is displayed of all the drivers and vehicles for whom/which data was downloaded on that particular day using the DLKPro.

- 2 Select a vehicle.



On the screen you can see

- how often the programmed maximum speed was exceeded (►►).
- how many signs of suspected tampering with the digital tachograph exist (⚠).
- how often the digital tachograph recorded a power interruption (🔌).

## The icons and what they mean

### Data download



-  Mass memory data is being downloaded.
-  Driver card data is being downloaded.
-  Company card data is being downloaded.
-  Control card data is being downloaded.
-  Workshop card data is being downloaded.

**Note:** In the case of company cards, control cards and workshop cards, downloading can only be carried out with the integrated chip card reader; see page 15.

### Memory usage

-  0% – 25% of the memory is full.
-  25% – 75% of the memory is full.
-  75% – 99% of the memory is full.
-  100% of the memory is full.  
No more downloads can be carried out.

### Charge level of the rechargeable battery

-  Battery charge between 75% and 100% (colour: green)
-  Battery charge between 50% and 75% (colour: green)
-  Battery charge between 25% and 50% (colour: green)
-  Battery charge between 0% and 25% (colour: red)

### SDHC™ card inserted

-  SDHC™ card is inserted. Data can be written on to and read from the card (colour: green).
-  SDHC™ card is inserted. Data cannot be read from the SDHC™ or the card's memory is full (colour: red).

### Menus

-  **Viewer** menu:  
Information about all the download files stored on the DLKPro
-  **Infringements** menu: Infringement and suspicious event analysis for all downloaded driver and vehicle files
-  **Settings** menu:  
Selection of the dialogue language and the tolerance profile for the driver and vehicle checks
-  **Info** menu:  
Display of the DLKPro version, the serial number, the software version and the free memory capacity

### Sub-menus (type of the download files)

-  Vehicle
-  Driver
-  Company
-  Control
-  Workshop/Test centre

### Further sub-menus

-  Dialogue language selection
-  Selection of the tolerance profile for driver and vehicle checks

**Information about the selected vehicle**

-  Suspicion of tampering exists, or at least one item from the following list of Events and Faults has been detected:
  - Driving without an appropriate card
  - Card insertion while driving
  - Overspeeding event (maximum speed programmed in the digital tachograph exceeded)
  - Power supply interruption
  - Motion data error
  - Security breach attempt
  - Recording equipment fault
- W** Characteristic coefficient (imp/km) programmed into the digital tachograph
- K** Correction value programmed into the digital tachograph
- L** Tyre circumference programmed into the digital tachograph
-  Tyre size programmed into the digital tachograph
-  Information about how often in the last 2 days (quick check) or 28 days (mass memory download)
  - the programmed maximum speed has been exceeded and/or
  - acceleration had an unrealistic value (greater than 10 m/s).
-  Number of signs of suspected tampering within the last 2 days (quick check) or 28 days (mass memory download)
-  Number of power interruptions within the last 2 days (quick check) or 28 days (mass memory download)

**Information about the selected driver**

-  An infringement of Regulation (EC) No. 561/2006 has been identified, or at least one item from the following list of Events and Faults has been detected:
  - Time overlap
  - Driving without an appropriate card
  - Card insertion while driving
  - Last card session not correctly closed
  - Power supply interruption
  - Motion data error
  - Security breach attempt
  - Card fault
-  Driving time
-  Rest periods
- 24h**  Duration of driving times and rest periods during the current day
- I**  Duration of driving times and rest periods during the current week
- II**  Duration of driving times and rest periods within the current two-week period

**Note:** The periods specified for the reminder functions correspond to the default factory values. Choose **Configuration** (module) > **Options** (tab) to specify reminder periods; see page 34. Please bear in mind that downloads must take place regularly using this particular DLKPro; otherwise the download reminders will be inaccurate.

**Information about the selected company card:****Activities carried out**

Mass memory download



Driver card download



Company 'lock-in' (to the digital tachograph VU) by inserting the company card; this procedure is only carried out if the company is not yet 'locked in'.



Company 'lock-out' from the digital tachograph when removing the company card

**Information about the selected workshop card:****Programmed parameters**

**W** Characteristic coefficient (imp/km) programmed into the digital tachograph

**K** Correction value programmed into the digital tachograph

**L** Tyre circumference programmed into the digital tachograph



Tyre size programmed into the digital tachograph

**Information about the selected control card:****Activities carried out**

Mass memory download



Driver card download



Printout from the digital tachograph



Data viewed in the display of the digital tachograph

# 7 Connecting to the computer



Don't worry: You only need a few manual operations to connect the DLKPro to the computer and start the PC programme. These routine actions will soon become second nature. And if you have sometimes to do something different – perhaps because you connected the device to a different computer – all the actions you would have to take are described below.

Please note that you can only start the "DownloadTools" PC programme from the DLKPro.

## ✓ Requirements:

- Java Runtime Environment 1.6.26 (or a later version) must be installed; see tip.
- Two drive letters must be available (3 if an SDHC™ card is used).
- Optional:
  - The Autostarter must be installed on the computer.
  - A connection to the Internet is necessary for automatically updating the PC programme (see page 39) or for direct access to the TIS-Web® login page; see page 31.

**Note:** You can of course also use the DLKPro without an Internet connection.

If you do this often, however, you should connect the DLKPro to an Internet-enabled computer from time to time (at your service partner's for example) to install current updates.

## Tip:

- You can check whether the above-mentioned Java Runtime Environment is installed via "[Start] > Control Panel > Programs > Programs and Features".
- If the Java Runtime Environment is not available, the PC programme will not be displayed correctly. You'll find the Java setup file on the DLKPro at "KEYTOOLS:\Support".  
Run the file to install Java Runtime Environment.
- For information on how to set up the Internet connection to your TIS-Web® account, please read the instructions in the TIS-Web® Quick Reference Guide.

- 1 Connect the USB cable (included in the product package) to a USB port on your computer.

**Tip:** If you use a USB hub as a DLKPro connection, make sure that the hub has its own power supply. Otherwise the DLKPro's battery can only be charged with a minimal charging current; see page 6 or 25.

- 2 Connect the DLKPro to your computer using the USB cable or a USB hub.
  - The DLKPro LED flashes for about one second.
  - The DLKPro battery is charged automatically; see page 7.

### First-time connection to a computer (without Autostarter)



- 3 The operating system opens two dialogue boxes. Here you can choose the programme to be used for displaying the contents of the drive. If an SDHC™ card is inserted, three dialogue boxes will be displayed.
- In all three dialogue boxes, choose **Open folder to view files** (Windows® Explorer) under **General options**. Windows® Explorer opens and displays the contents of the KEYTOOLS, DOWNLOADKEY and SDHC™ card drives (if available).

**Note:** If all of the programme selection dialogue boxes don't open, assign new drive letters to the DLKPro using Disk Management. Please note that if the DLKPro is password-protected, only one programme selection dialogue box will be displayed.

Access to the DOWNLOADKEY drive and the data stored on the SDHC™ card (if inserted) will be blocked until the password has been entered.

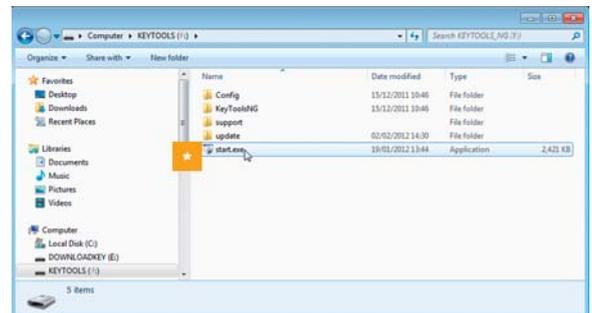
- Double-click on "start.exe" to start the PC programme. The startup screen of the "DownloadTools" PC programme appears.

**Tip:** If you often use this computer to start the PC programme, then you should install the Autostarter:

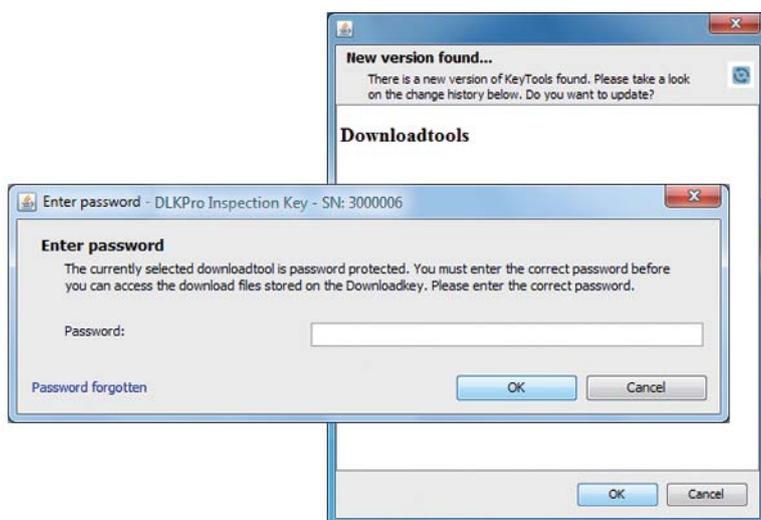
- When you've started the programme, switch to the **Support** module and click on the relevant button; see page 40. Alternatively:
- Go to the KEYTOOLS drive and open the "KeyToolsNG" folder. Now install the Autostarter by double-clicking on "AutoStarterSetup.exe". The Autostarter is installed and the  icon appears in the notification area of the taskbar.

### Connecting to the same computer again

- ✓ Prerequisite:
  - The Autostarter must be installed on your computer.
  - The DLKPro must be connected to the computer.
- 3 Windows® Explorer opens and displays the contents of the KEYTOOLS and DOWNLOADKEY drives. The Autostarter starts the "DownloadTools" PC programme. 



- \* If the PC programme does not start automatically, start Windows® Explorer, open the KEYTOOLS drive and start the programme by double-clicking on "start.exe". The startup screen of the "DownloadTools" PC programme appears.



**Note:** When you start the PC programme, two routine checks are carried out:

- **Version check**  
If the installed version differs from the current version provided by the manufacturer, a dialogue box will appear.  
Click on **[OK]** if you want to update the programme.
- **Password protection check**  
If you have saved a password, you must enter it; only then can you access the download files; see page 35.  
You can also use the Autostarter to enter your password; see page 40.

You can now work with the PC programme and view or process the data further, for instance; see page 26.

### Removing the DLKPro

**Caution:** Please never remove the DLKPro from the computer during data transfer. This could corrupt the data and cause the computer to crash. Always wait until the transfer process has finished – the LED light then remains green.

- 4 Exit the PC programme by clicking on **[X]** in the top right corner of the programme window.

**Note:** As the DLKPro's memory is distributed over two drives (three drives if you're using an SDHC™ card) you **cannot** remove the device via the **Safely Remove Hardware and Eject Media** icon on the taskbar.



- 5 Check that the data transfer to and from the DLKPro has finished:  
The LED light remains green.

If the LED flashes orange, leave the DLKPro plugged into the computer for some time (if possible). This will charge the integrated battery for the next card download, or for the display of the download reminder on the screen.

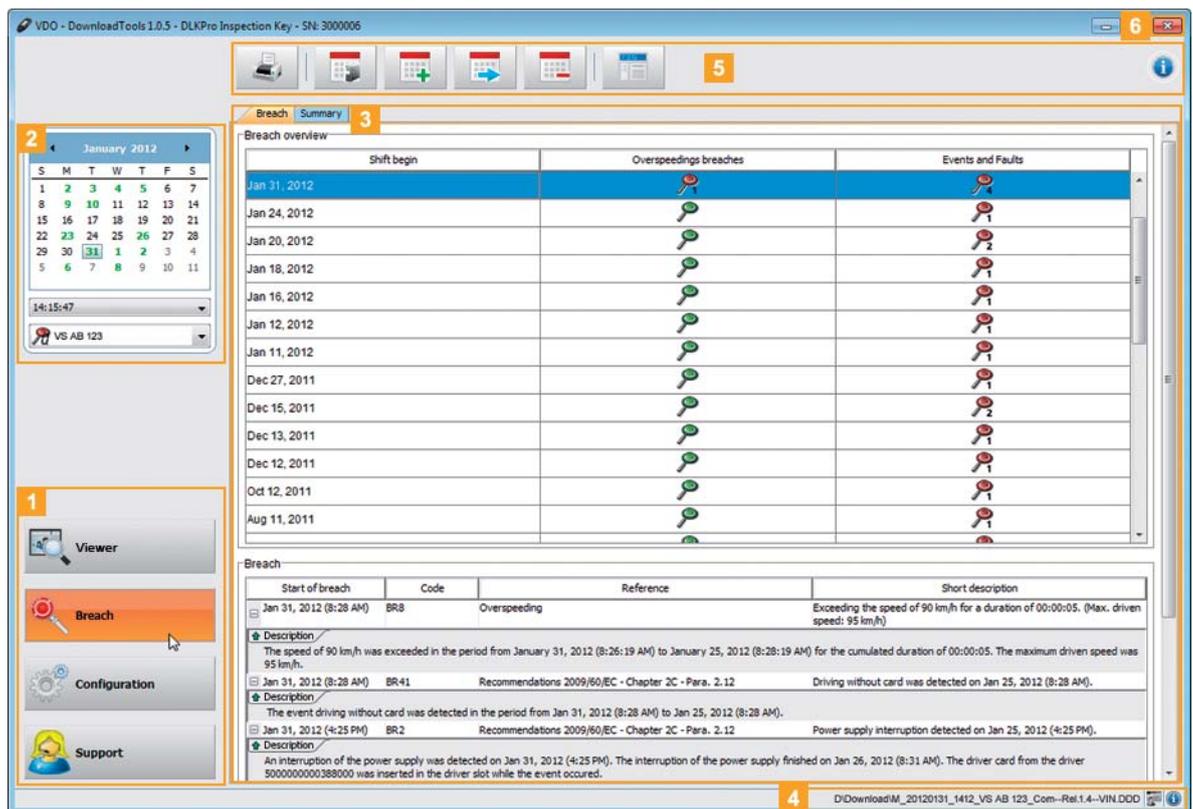
- 6 Remove the DLKPro from the USB cable or USB hub port and replace the cover.
- \*\*** Disconnect the USB cable from the computer's USB port (if necessary).  
Store the cable without stretching or kinking it.

# 8 "DownloadTools" PC programme

The "DownloadTools" PC programme stored on your DLKPro lets you

- perform a detailed check of infringements or suspicious events detected during a driver or vehicle check.
- create and print infringement reports,
- archive, copy, move and delete download files,
- specify tolerance values for the driver or vehicle check.
- configure the download,
- perform any support tasks via the software.

Please remember: The PC programme can only be started from the DLKPro.



- 1** Module buttons  
You can start the following modules using the module buttons:
- **Breach**,
  - **Configuration** and
  - **Support**.
- The button for the currently enabled module is highlighted.

- 2** Overview pane  
In this pane (if you are in the **Breach** module), you can select a date from the calendar on which vehicle and/or driver card data was downloaded.  
If several downloads were carried out on a particular day, the area below the calendar shows
- the times on which data was downloaded and then
  - the associated vehicle and driver card files.
- For more information please refer to page 28.

- 3** Display and editing pane  
This area is reserved for displaying and editing data.
- 4** Status bar  
The PC programme's status bar tells you
- about the currently displayed mass memory or card file,
  - whether or not new entries are available in the chip card reader log ( symbol) and
  - about the version of the currently used PC programme and licensed modules ( symbol).
- 5** Function pane  
The buttons in the function pane enable you to further process the data; see page 28.  
The buttons that are available depend on the selected module.  
The toolbar button  is always displayed, regardless of the module you're working in. This button opens these instructions in the language you specified for the user interface; see page 34.
- 6**  button  
Use this button to quit the PC programme.  
For information on charging the battery and removing the DLKPro from the computer, please refer to pages 7 and 25.

## Displaying, checking and printing suspicious events

Shift begin	Overspeedings breaches	Events and Faults
Jan 31, 2012		
Jan 24, 2012		
Jan 20, 2012		
Jan 18, 2012		
Jan 16, 2012		
Jan 12, 2012		
Jan 11, 2012		
Dec 27, 2011		
Dec 15, 2011		
Dec 13, 2011		
Dec 12, 2011		
Oct 12, 2011		
Aug 11, 2011		

Start of breach	Code	Reference	Short description
Jan 31, 2012 (8:28 AM)	BR8	Overspeeding	Exceeding the speed of 90 km/h for a duration of 00:00:05. (Max. driven speed: 95 km/h)
<i>Description</i> The speed of 90 km/h was exceeded in the period from January 31, 2012 (8:26:19 AM) to January 25, 2012 (8:28:19 AM) for the cumulated duration of 00:00:05. The maximum driven speed was 95 km/h.			
Jan 31, 2012 (8:28 AM)	BR41	Recommendations 2009/60/EC - Chapter 2C - Para. 2.12	Driving without card was detected on Jan 25, 2012 (8:28 AM).
<i>Description</i> The event driving without card was detected in the period from Jan 31, 2012 (8:28 AM) to Jan 25, 2012 (8:28 AM).			
Jan 31, 2012 (4:25 PM)	BR2	Recommendations 2009/60/EC - Chapter 2C - Para. 2.12	Power supply interruption detected on Jan 25, 2012 (4:25 PM).
<i>Description</i> An interruption of the power supply was detected on Jan 31, 2012 (4:25 PM). The interruption of the power supply finished on Jan 25, 2012 (8:31 AM). The driver card from the driver 5000000000388000 was inserted in the driver slot while the event occurred.			

The **Breach** module provides you with functions for checking whether or not the downloaded files contain any infringements.

**Note:** Any infringement of Regulation (EC) No. 561/2006 (driving times and rest periods) and any events and faults detected are already analysed during the data download. Please note that evaluations are based on the tolerance profile that you selected **before** the check; see page 44.

In the **Breach** module, you can display the data and print it out.

This module also has the function for archiving files; see page 31.

### Selecting data



- 1 Choose the **Breach** module.

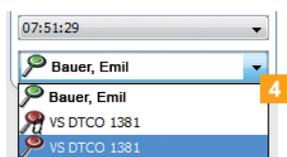
The days on which data was downloaded are colour-highlighted in the calendar in the overview pane:

- Red: Data which has not yet been archived and is available for that day.
- Green: All the data for that day has already been archived.

The current day is displayed with a red frame.

- 2 In the overview pane in the calendar, select a date on which vehicle and/or driver card files were downloaded.

- 3 Select the time the data was downloaded.



- 4 Select the vehicle and driver card data which you want to analyse for suspicious events:
- A green signalling disc (🟢) is displayed if no suspicious events exist and no infringements have been detected.
  - A red signalling disc (🔴) is displayed if at least one suspicious event exists or at least one infringement has been found.

**Note:** If the mass memory file was downloaded during the quick check, the signalling disc also shows the letter Q (🟢, 🔴).

You can now

- check the infringements found.
- view the speed graph (mass memory data) and/or activity chart (mass memory, driver card and workshop card data); see page 30.
- edit the selected file; see page 31.

## Checking actual suspicious events and infringements

Shift begin	Oversteering breaches	Events and Faults
24-Feb-2012	🟢	🔴
23-Feb-2012	🟢	🔴
22-Feb-2012	🟢	🔴
21-Feb-2012	🟢	🔴
20-Feb-2012	🟢	🔴
17-Feb-2012	🟢	🔴
15-Feb-2012	🟢	🔴

#	Breach	Code	Reference	Short description
1	Power supply interruption detected	0000000000000000	Chapter C - Para. 3.1.1	Power supply interruption detected on 24-Feb-2012 07:17.
2	Activity error	000		The power supply interruption was detected on 24-Feb-2012 07:17. The power supply interruption ended on 24-Feb-2012 07:17. The driver card from driver 3000000000000000 was inserted into the driver slot during the breach.
3	Activity error	000		The power supply interruption was detected on 24-Feb-2012 07:17. The power supply interruption ended on 24-Feb-2012 07:17. The driver card from driver 3000000000000000 was inserted into the driver slot during the breach.

- ✓ Prerequisite:  
You have chosen the **Breach** module, switched to the **Breach** tab and selected a file.

The display and editing pane shows the summary of suspicious events and infringements for the selected file with information about

- the number of infringements of driving and rest times committed by the selected driver or
- how often the selected vehicle exceeded the programmed maximum speed and
- the number of events and faults (third column).

A detailed **Breach** list is displayed in the bottom area of the display and editing pane.

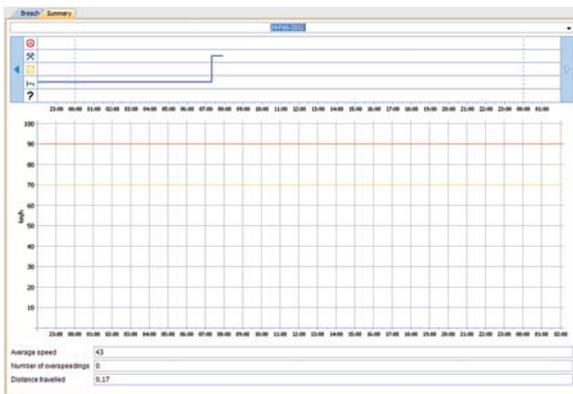
**Tip:** In the **Configuration** module on the **Options** tab, you can specify whether or not all days for which data was downloaded should be analysed. You can also limit the analysis to the last 28 days.

If you have downloaded mass memory files during the quick check, only the data for the last two days will be displayed. These files are denoted by the letter Q (🟢, 🔴).

- 1 Select the row for which you want to display the infringements.
- 2 In the list (in the bottom area of the display and editing pane) click on **[+]** and then on the **Description** tab to display an explanation of the infringement.

**Note:** Suspicious events detected for a vehicle do not necessarily relate to the driver whose driver card you have checked. Always verify the infringements (suspicious events) found against a digital tachograph printout, an infringement analysis in TIS-Web<sup>®</sup>, TIS-Office<sup>®</sup> or a third-party software product; see page 44.

### Displaying the speed graph and/or activity chart



- 1 Choose the **Breach** module and then the **Summary** tab.

The information shown in the display and editing pane depends on the file type:

- Mass memory data
  - Chart showing the activities recorded on the selected day
  - Speed graph for the selected day
  - Average speed driven on the selected day
  - Number of overspeeding events on the selected day
  - Distance driven on the selected day

- Driver card data
  - Chart showing the activities recorded in the selected week
  - Traffic lights denoting daily driving times and rest periods, weekly driving times and rest periods and driving times and rest periods recorded in the previous two consecutive weeks
  - Information about the vehicles driven in the selected week
- Workshop card data
  - Chart showing the activities recorded on the selected day
  - List of activity changes on the selected day, including details about the selected entry

**Note:** If on the DLKPro no data is available for the selected file or if no activities were recorded, a corresponding message will be displayed in the display and editing pane.

**Tip:** You can also enlarge or reduce the speed graph (mass memory data) and the activity chart (mass memory, driver card and workshop card data). Place the mouse pointer in the speed graph or activity chart, rotate the mouse wheel forward to zoom in and display the seconds for example. If your mouse does not have a wheel, press the right mouse button and at the same time move the mouse to the right.

## Processing data



The buttons available in the **Breach** module depend on the selected tab.

Specify how you want to process the data further by clicking on a button in the function pane.

### 1 Print button

Click on  to open a (print) preview of the suspicious event analysis in the display and editing pane. You can then save the analysis in a PDF file or print it.

**Note:** In the **Configuration** module on the **Options** tab, you can specify whether or not the legal provisions of Regulation (EC) No. 561/2006 should be printed together with the suspicious event analysis.

### 2 Archive button

In the function pane, click on  to save the files available for the selected day on the computer. Specify the target folder for archiving via **[Configuration] > Options** (tab) > **Archive folder** (box); see page 34.

Vehicle or driver download files that have been archived this way are denoted by a green number in the calendar.

**Note:** Archiving does not delete the files from the DLKPro.

### 3 Copy button

In the function pane, click on  to copy the files available for the selected day to the computer.

**Note:** When copying files, the files are neither deleted from the DLKPro nor from the archive folder, but copied to the target folder.

### 4 Move button

In the function pane, click on  to remove the files available for the selected day from the DLKPro or from the archive folder and move them to the computer.

**Note:** Download files that are moved are neither available on the DLKPro, nor in the download archive. The vehicles or drivers associated with the files are no longer listed.

### 5 Delete button

In the function pane, click on  to remove the files available for the selected day from the DLKPro or from the archive folder.

Confirm the query with **[Yes]** to delete the files.

**Caution:** If you delete a download file that has not yet been archived or copied, this action cannot be undone. If you are not quite sure whether or not you will need the file again, you should copy or move it. Also remember the archiving obligation note on page 3.

### 6 TIS-Web button

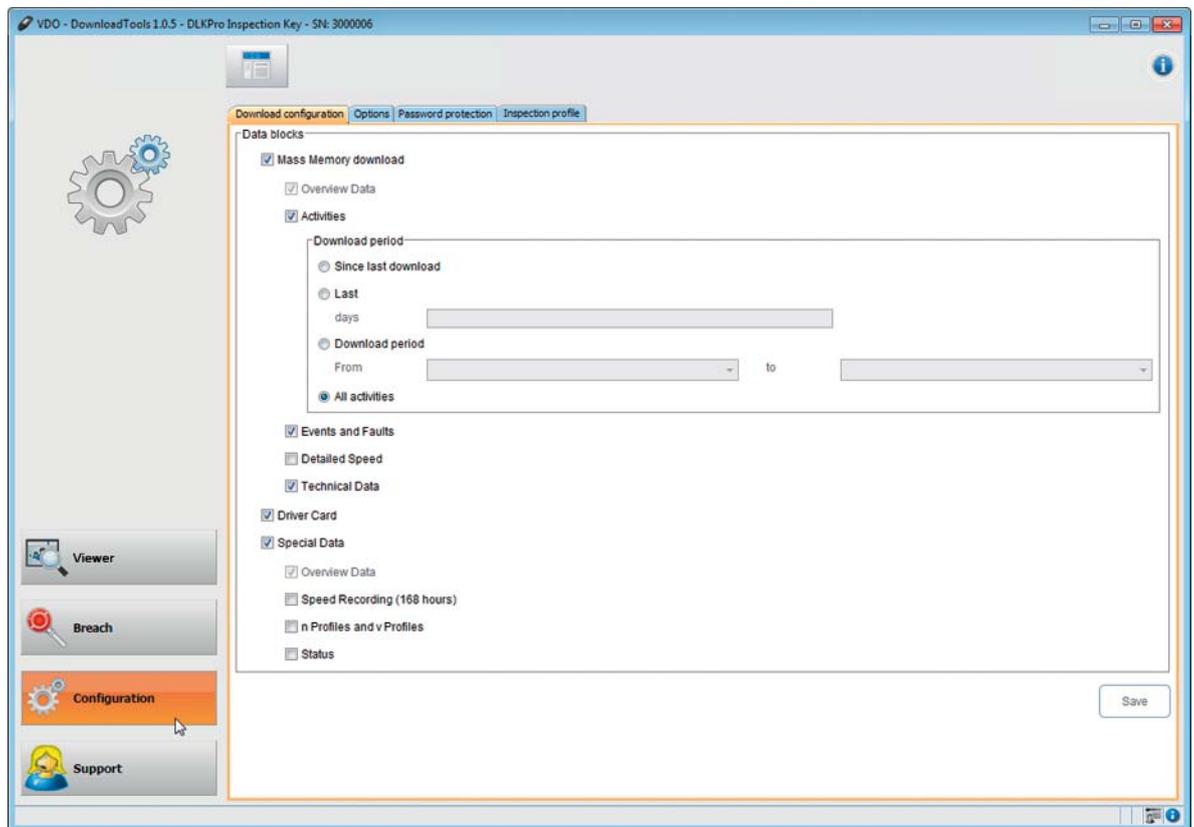
In the function pane, click on  if you want to import the data into TIS-Web<sup>®</sup>. Internet Explorer<sup>®</sup> starts with the TIS-Web<sup>®</sup> login page.

**Note:** Depending on your TIS-Web<sup>®</sup> settings, the files could be deleted from the DLKPro after import is complete. Please read the notes in the TIS-Web<sup>®</sup> Quick Reference Guide.

### 7 Help button

In the function pane, click on  to open these Operating Instructions.

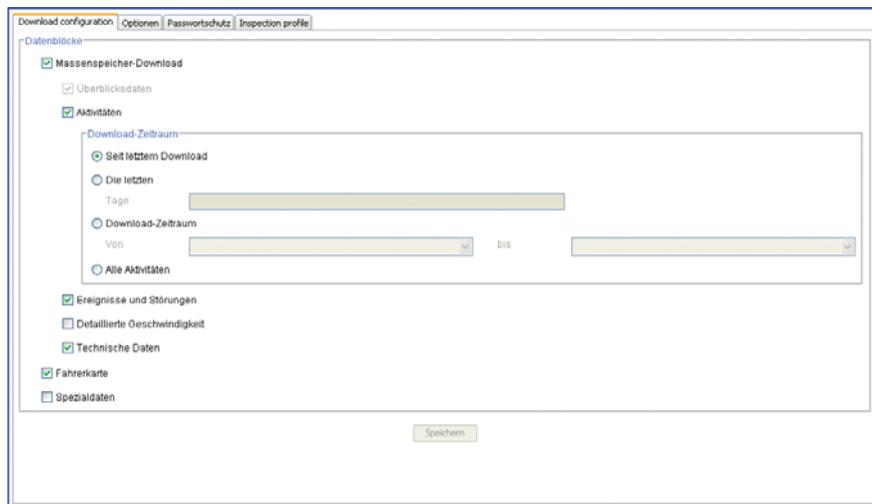
## Configuring the DLKPro and the infringement analysis



In the **Configuration** module,

- specify the settings for downloading data from the digital tachograph.
- specify the user interface language.
- define the target folder in which the download files are archived
- change the file name format.
- specify a password to protect the data stored on the DLKPro from third-party access.
- specify tolerance profiles for the suspicious event check (driver and vehicle checks).

## Download configuration



In the **Configuration** module on the **Download configuration** tab, specify the data you want to download from the digital tachograph.

**Note:** When delivered, the DLKPro is configured to download all legally required data since the last download.

- 1 Choose the **Configuration** module and then the **Download configuration** tab if you want to modify the download settings.
- 2 Specify the data to be downloaded in the future. All data with a check mark will be included when downloading.

**Note:** Please observe the regulations in force in your country for archiving mass memory and driver card files (M and C files).

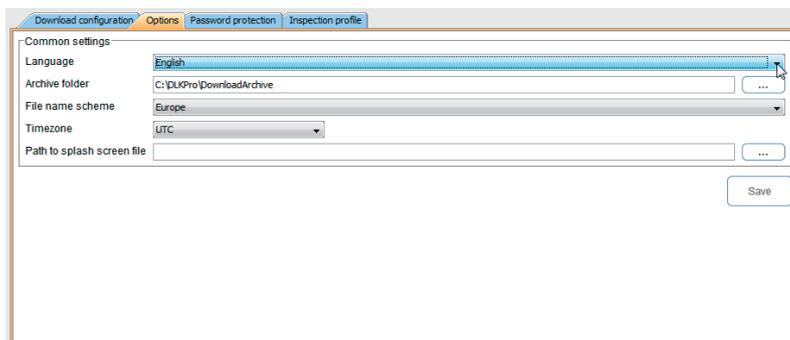
**Tip:** You can limit the amount of data (and consequently the duration of the download) for the **Activities** and **Special Data** blocks by entering a download period or clearing the Detailed Speed check box. Users of TIS-Web<sup>®</sup> or TIS-Office<sup>®</sup> must ensure that the DLKPro download settings match the settings specified in TIS-Web<sup>®</sup> or TIS-Office<sup>®</sup>.

- 3 Set the period for which data should be downloaded:
  - **Since last download**
  - **Last x days**
  - **Download period From – to**
  - **All activities**

**Note:** If you set a specific date range for the data download, that range will apply to all future download procedures using this DLKPro. When the download is complete, please remember to change the settings for the next download procedures.

- 4 Click on **[Save]** to apply the changes.

## Options



In the **Configuration** module on the **Options** tab, you define, for instance,

- general settings such as the user interface language.
- the target folder for archiving download files.
- the **Timezone** list to change the currently selected time zone for displaying and evaluating download files using the PC programme.
- [...] under **Splash screen path** to change the DLKPro start screen.

- 1 Choose the **Configuration** module and then the **Options** tab if you want to modify the configuration of the DLKPro.

### Common settings

- 2 Click on
  - the **Language** list to change the user interface language.  
Language changes will not take effect until you restart the PC programme.

**Note:** You must enter an activation code for certain languages. Please contact your national Continental Automotive GmbH representative or your service partner about this.

- [...] under **Archive folder** to define a different target folder for archiving your download files.
- the **File name scheme** list to change the files' country-specific ID; see page 41 on file extensions.

**Note:** The image you select for the start screen must meet the following requirements:

- Image width: 320 pixels
- Image height: 240 pixels
- File format: PNG
- Colour depth: 24 bits

The DLKPro checks the new PNG file during the next startup procedure. If the file does not fulfil the above requirements, the new start screen will not be displayed and the DLKPro continues to show the old start screen.

### Infringement module options

- 3 Clear the
  - **Print EC Regulation No. 561/2006** check box if you do not want to include this Regulation's provisions in the suspicious event check printout.
  - **Display 28 days only** check box if you don't want to limit the suspicious event check to the last 28 days but you still wish to analyse all the days for which data is included in the downloaded file.

- 4 Click on **[Save]** to save the settings.

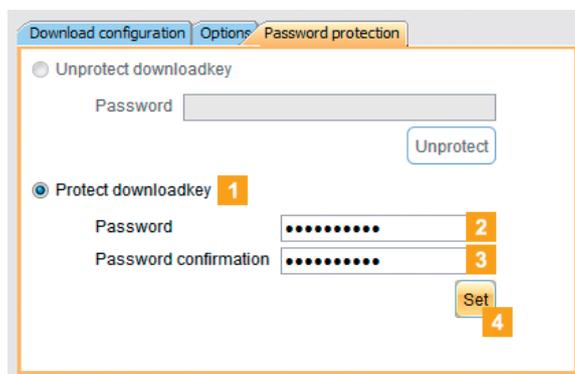
## Password protection

In the **Configuration** module on the **Password protection** tab, you can enter a password to protect the download files stored on the DLKPro from third-party access.

The password blocks access to the DOWNLOADKEY drive and to the SDHC™ card (if inserted). Access to the download files is only possible after you have started the PC programme and entered the password.

- \* Choose the **Configuration** module and then the **Password protection** tab if you want to change the DLKPro's password protection settings.

### Enabling password protection



- 1 Select **Protect download key**.
- 2 Enter the password in the first text box.
- 3 Enter the password again in the **Password confirmation** box.
- 4 Click on **[Set]** to apply the password and enable password protection.

**Note:** If a password is stored, the next time you connect the DLKPro you can only access the download files and backup copies on the SDHC™ card after you have started the PC programme and entered the password.

You can also use the Autostarter to enter your password; see page 40.

**Note:** Please take the following security precautions to protect your personal data:

- Do not give your password to third parties.
- Change your password regularly.
- Keep your password in a safe place.

### Changing the password

- 1 Enter your current password in the first text box.
- 2 Enter your new password in the second text box.
- 3 Enter the password again in the **Password confirmation** box.
- 4 Click on **[Set]** to apply the changes.

**Note:** The next time you connect the DLKPro you must enter the new password to access the download files.

### Removing the password



- 1 Select **Unprotect downloadkey** to remove the password.
- 2 Enter your password in the relevant text box.
- 3 Click on **[Unprotect]** to apply the changes.
- 4 Confirm the query with **[Yes]**.

## Specifying tolerances for driver and vehicle checks

Before using the DLKPro for the first time to check drivers and vehicles, you should specify the tolerances for infringement and suspicious event checks.

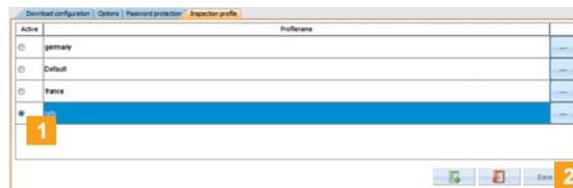
In the **Configuration** module on the **Inspection profile** tab, specify the tolerance values for

- checking **Driving and rest time breaches**,
- **Security breaches** and
- **Overspeeding breaches**.

You can select the tolerance profile for the infringement and suspicious event check either in the PC programme or via the touch screen; see page 18.

- \* Choose the **Configuration** module and then the **Inspection profile** tab if you want
  - to create a new tolerance profile.
  - to modify the settings of an existing tolerance profile.

## Activating the tolerance profile

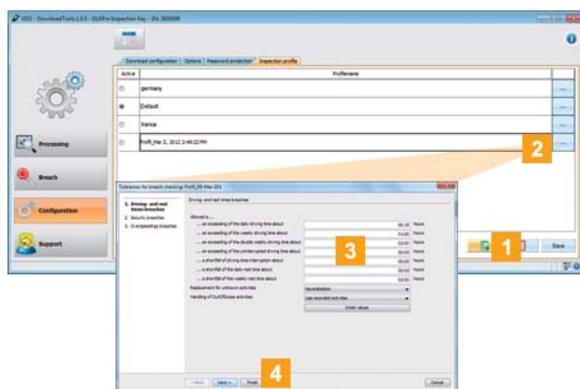


- 1 In the **Active** column, select the tolerance profile to be used for the next driver or vehicle check.

- 2 Click on **[Save]** to confirm your setting.

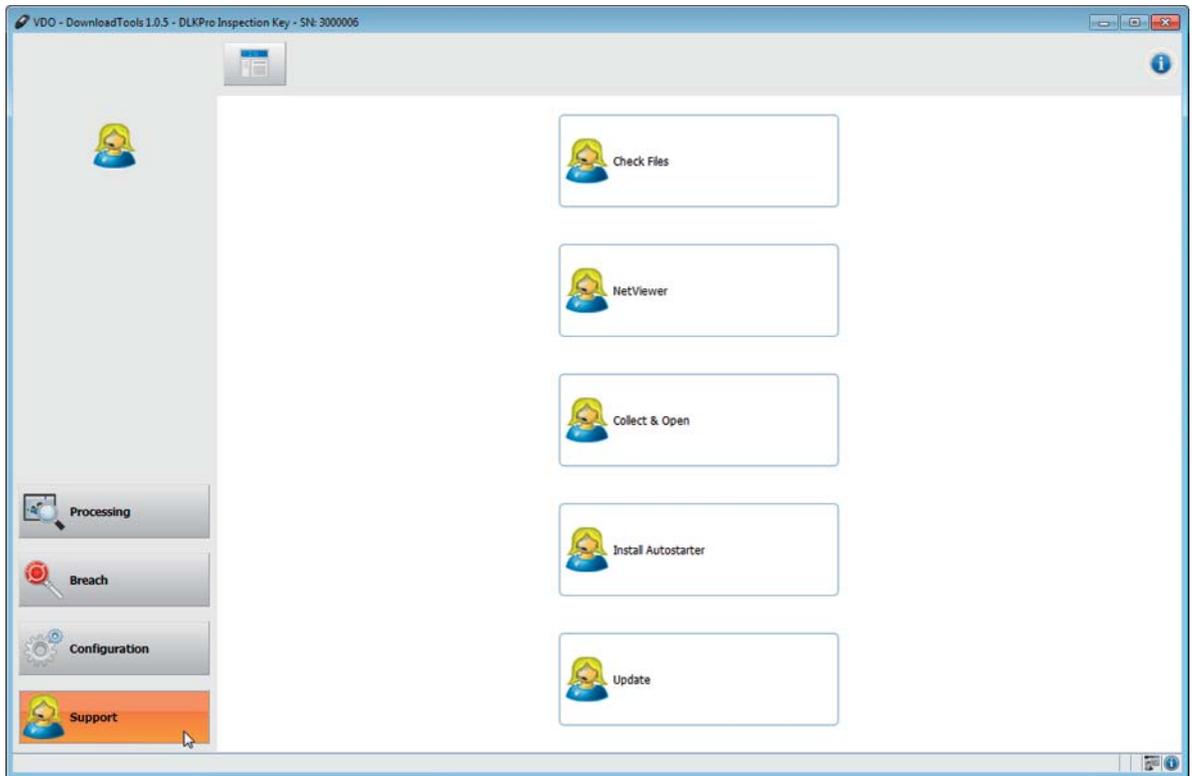
*Tip: You can also use the device screen to select the tolerance profile to be used for a driver or vehicle check. Please remember that the profile must be set **before** the check.*

## Creating a tolerance profile



- 1 Click on  to create a new tolerance profile.
- 2 Select the existing profile and
  - double-click in the **Profile name** column to change the profile's name displayed on the touch screen.
  - click on **[...]** to edit the profile's tolerance values. The **Tolerances for breach checking** dialogue box appears.
- 3 Specify when the DLKPro should indicate an infringement or a suspicious event by setting the tolerance values.
- 4 Click on **[Finish]** to confirm your settings.

## Getting support



The **Support** module will help you in service support situations.

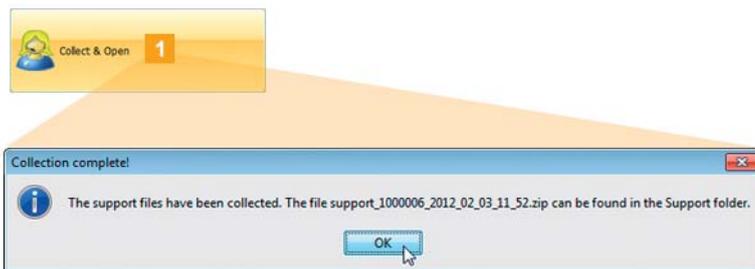
Accordingly choose **[Support]**

- if you have to collect all the service-relevant files in a ZIP file in the support folder.
- if you want to start a Netviewer session with your service partner.
- if you want to update the software to the latest version.
- if you want to carry out signature checking for all the files stored on the DLKPro.
- if you want to install the Autostarter.

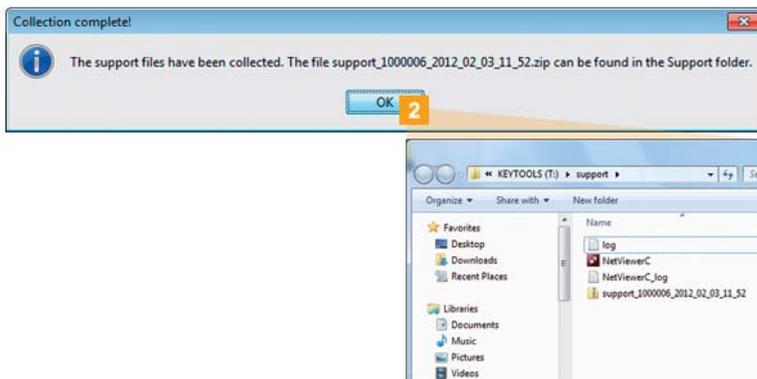
## Collecting support files

The DLKPro lets you to collect all the service-relevant files in a ZIP file in the support folder. These files also include a log file.

**Tip:** The log file indicates any errors and/or problems when downloading data. Use this function if you notice repeated irregularities during downloading. Then e-mail the ZIP file to your service partner to ascertain the cause behind the errors.



- 1 Click on **[Collect & Open]** to collect the service-related files (log file and configuration files) in a ZIP file. When the ZIP file has been created, the **Collection complete!** dialogue box is displayed.



- 2 Click on **[OK]** to close the **Collection complete!** dialogue box. Windows® Explorer automatically opens the directory in which the ZIP file is stored **\***. You can now send the data to your service partner.
- \*** If the directory does not open, start Windows® Explorer and switch to the KEYTOOLS:\Support directory.

## Starting Netviewer

If you agree, your service partner can also solve a support problem directly on your computer: The DLKPro includes the Netviewer software which, with your permission, gives your service partner access to your computer.

**Note:** A session number is required each time a connection is established. This number is uniquely generated for each individual Netviewer session. When the connection is ended, your service partner can no longer access your system.

- ✓ Requirements:
  - You have already discussed it with your service partner, he has dictated a session number to you and now wishes to access your computer using Netviewer.
  - The DLKPro must be connected to a computer which in turn is connected to the Internet.



- 1 Click on **[Netviewer]** to grant your service partner access to your computer. Netviewer is launched.
- 2 Enter the session number given to you by your service partner.

- 3 Click on **[Connect]**.  
The connection is established.

**Note:** In Netviewer, you must grant your service partner the necessary rights, e. g. to display your screen or to move your mouse pointer.

- 4 Click on **[Close]** to exit the Netviewer session.

**Note:** The Netviewer session can be ended by you or your service partner at any time. If your service partner ends the session, the following message is displayed: "The session has been ended".

### Carrying out a software update

When the PC programme is started, a version check is performed.

If the version being used is different from the manufacturer's current version, a dialogue box opens. Click on **[OK]** to carry out the update.

If you cancelled an update procedure, you can initiate a new update later via the **Support** module.

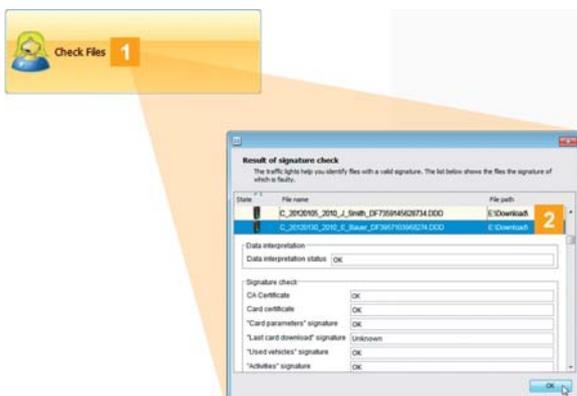
**Note:** If you have cancelled the update and you do not carry it out via the PC programme, a dialogue box will again be displayed the next time you start the PC programme.

- ✓ Prerequisite:  
The DLKPro must be connected to a computer which in turn is connected to the Internet.



- 1 Click on **[Update]** if you wish to check whether or not a more up-to-date software version is available. If a more up-to-date software version is available, a message to that effect is displayed.
- 2 Click on **[Install Update]** to install the software.

## Checking the signature of downloaded files



The DLKPro lets you check the signature of files after they have been downloaded.

- 1 Click on **[Check Files]** to carry out a signature check for all the files stored on the DLKPro. The **result of the signature check** is displayed in its own dialogue box.
- 2 Select the line for which you want to have more information and double-click on it to open the details.

**Note:** If an error is displayed during the signature check, load the relevant data again.

Please ensure that you adapt the current configuration – particularly the download period – of the DLKPro in order to be able to download the same data again; see page 33.

If the second file also has an error, please send it to your service partner for analysis.

## Installing the Autostarter

Use the Autostarter to initiate the following processes as soon as the DLKPro is connected to the computer:

- Password protection check  
As soon as the DLKPro is connected to the computer the Autostarter checks whether or not the device is password-protected. If it is, the **Enter Password** dialogue box appears. Here you can unlock the DOWNLOADKEY drive and the SDHC™ card (if inserted) without having to start the PC programme.
- Automatic launch of the PC programme

- \* Click on **[Install Autostarter]** if you have not yet installed it.

**Note:** You can see whether or not the Autostarter is installed in the notification area of the taskbar. If it is installed, the  icon is displayed. Right-click to open its configuration: The PC programme autostart and password entry options (check boxes) are selected by default; you can also uninstall the tool.

**Tip:** Users of TIS-Web® or TIS-Office® should enable the Autostarter password entry function. This unlocks the password-protected download files without opening the PC programme.

## Uninstalling the Autostarter

You can uninstall the Autostarter at any time if you no longer wish to use it.



- 1 In the notification area of the taskbar, right-click on the  icon.

- 2 In the shortcut menu, click on **Uninstall Autostarter**.

The Autostarter is uninstalled. When the uninstall procedure has finished, you will be prompted to restart the computer.

# 9 Technical specifications

## System requirements

Software	
Operating system	32 or 64-bit: Windows 7 <sup>®</sup> , Windows <sup>®</sup> Vista <sup>™</sup> or Windows <sup>®</sup> XP (with current Service Pack)
	2 drive letters available for removable media (Disk Management) Optional: 3 drive letters available with SDHC <sup>™</sup> card
Java platform	Java Runtime Environment 1.6.26 or a later version (Java <sup>™</sup> 6)
Viewer	Adobe <sup>®</sup> Reader <sup>®</sup>
Internet browser	32-bit version: Microsoft <sup>®</sup> Internet Explorer <sup>®</sup> from version 6 (optional for transferring data to TIS-Web <sup>®</sup> )

Hardware	
Processor	32 or 64-bit architecture
Interfaces	USB 2.0 port available for DLKPro connection
Components	DLKPro (with "DownloadTools" PC programme)

## File extensions

Up to three files are created when downloading data from a digital tachograph. In compliance with the regulations in force in the different countries, the file name tells you

- the date and time of the download,
- the origin of the data (vehicle or driver) and
- (to some extent) the file type.

**Note:** The file names of the download files are determined by the EU member states. The name of the files stored on the DLKPro depends on the configuration settings saved on the DLKPro. You can modify the settings on the **Options** tab in the **Configuration** module; see page 34.

### File extensions (country-specific)

Europe	*.DDD
France	*.V1B, *.C1B, *.A1B
Spain	*.TGD

## UTC time

In the digital tachograph, all times are stored in UTC time (Coordinated Universal Time based on the time zone "0", previously referred to as Greenwich Mean Time or GMT time).

The time data also included in the file names of the download files is in UTC time.

## Cleaning and maintenance

Thanks to its design, the DLKPro requires only very little cleaning and maintenance. Four basic recommendations:

- Use only a damp cloth to clean the DLKPro housing, screen and on-off button.
- Check the charge status of the rechargeable battery regularly if you use the integrated card reader often.
- After using the DLKPro, replace the covers on the 6-pin download plug and USB 2.0 plug to avoid contaminating or damaging the plugs.
- To avoid breaking the wires, do not twist or kink the USB cable.

## Reset function

In rare cases it may occur that the DLKPro can no longer be operated although it is switched on. If this happens, use the reset button to switch off the DLKPro; see page 5.

You can, for example, press the reset button by inserting a straightened paper clip into the reset hole. Press the reset button until the DLKPro switches itself off.

## Disposal



Due to the integrated rechargeable battery in the device, legal regulations which go beyond the laws regarding the disposal of electronic devices must be adhered to. Disposal in household waste is prohibited.

Please take the DLKPro to a collection point for professional disposal or contact your service partner.

Should you have any questions about how to dispose of a defective DLKPro please contact your service partner.

## Declaration of Conformity

Continental Automotive GmbH hereby declares that the DLK described in these operating instructions is in conformity with the applicable requirements and other relevant provisions of the Directive 2004/108/EG. The Declaration of Conformity in question has been signed. A copy of the original can be requested from Continental Automotive GmbH if necessary.

## Technical data

Supply voltage	Connection via USB 2.0 interface: 4.75 – 5.25 V
	Connection via 6-pin interface: 9 – 30 V
Current consumption	Connection via USB 2.0 interface: 100 – 500 mA
	Connection via 6-pin interface: max. 40 mA
Temperature range	Storage: 20 °C
	Operation: -20 ... +70 °C
Interfaces	USB 2.0 interface, plug (type A)
	Standardised 6-pin interface for digital tachograph download interface, D-shape plug
	Card slot for SD™ or SDHC™ card
	Chip card reader
Memory capacity	1,824 MB (1.65 GB) of which <ul style="list-style-type: none"> <li>• 128 MB required for the KEYTOOLS partition: PC programme "DownloadTools", configuration files and log file</li> <li>• 1,696 MB for the DOWNLOADKEY partition: download files (corresponds to about 5,000 full, quarterly mass memory downloads)</li> </ul>
Dimensions	L 126 x W 47 x H 28 mm
Weight	approx. 107 g
Housing	PC/ABS plastic
Display	TFT colour screen, resolution of 320x240 pixels and 262,000 colours
Protection class	IP 3X
Rechargeable battery	LiPo 3.7 V 960 mAh

# Disclaimer

The DLKPro Inspection Key was designed exclusively for downloading data from digital tachographs and tachograph cards and for displaying, evaluating and archiving the downloaded data. The producers shall not accept any liability for damages resulting from any non-compliant use. In particular, personal injuries, material damages or financial loss in the form of consequential damages arising directly from the non-compliant use of the DLKPro Inspection Key.

Microsoft® and Windows® are registered trademarks of the Microsoft® Corporation.

The DLKPro Inspection Key is a complete system for mobile data download and includes an infringement check which complies with European legislation. The following must, however, be taken into consideration:

The interpretation of the driving and rest times, speed information and information about possible tampering with the digital tachograph is carried out by national supervisory authority officials on the basis of Regulation (EC) No. 561/2006 of 15.03.2006 (Driving and Rest Time regulation) and Regulation (EC) No. 1360/2002 of 13.06.2002 (Recording Equipment in Road Transport). With the implementation of these regulations into national law, there is some room for interpretation and in some cases, this may lead to deviations in the DLKPro interpretation from country to country.

The infringement check of the DLKPro is a quick check which cannot replace a comprehensive check carried out by the national supervisory authorities.

Various interpretations or deviating application cases of the above regulations are beyond the sphere of influence of the manufacturer and its sales system. Accordingly, neither the manufacturer nor its distribution system will be held liable for fines validated by an authority; the manufacturer or its sales system will therefore assume no liability, unless misconduct or gross negligence is proven.

Java™ is a registered trademark of the Oracle Corporation.

SD™ is a registered trademark of the ScanDisk® Corporation.

Adobe®/Acrobat® Reader is a registered trademark of Adobe Systems Incorporated.

DTCO® 1381, TIS-Web® and TIS-Office® are registered trademarks of the Continental Corporation.

In these operating instructions the above trademarks are sometimes used without reference to the trademark owner.

**Continental Automotive GmbH**

Heinrich-Hertz-Str. 45

78052 Villingen-Schwenningen

Germany

[www.dtco.vdo.com](http://www.dtco.vdo.com)

[tachograph@vdo.com](mailto:tachograph@vdo.com)

VDO – A trademark of the Continental Corporation

The information contained in this documentation merely consists of general descriptions and a compilation of performance features, which, under specific application conditions, may not always apply exactly as described, or which may change as a result of ongoing product development. This information is only a technical description of the product; in particular, it does not constitute a guarantee of quality or durability. The desired performance features only become binding once expressly agreed in the final contract. Availability and technical specifications are subject to change.

A2C59514894 | English © 03/2012

**VDO**