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- Downloading Vehicle Unit data
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Components
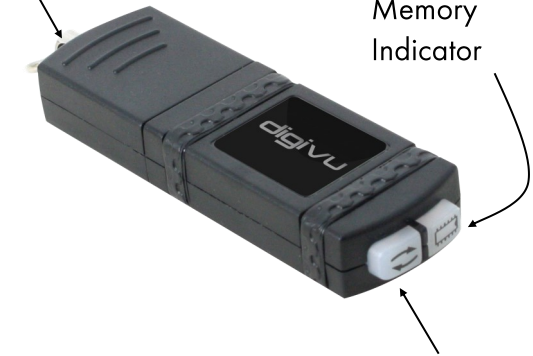
- digivu
- USB Adapter

digivu hardware

Connector Cap

Memory
Indicator

USB Adapter for PC

Activity
Indicator

Connecting digivu to the Vehicle Tachograph Unit

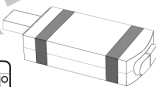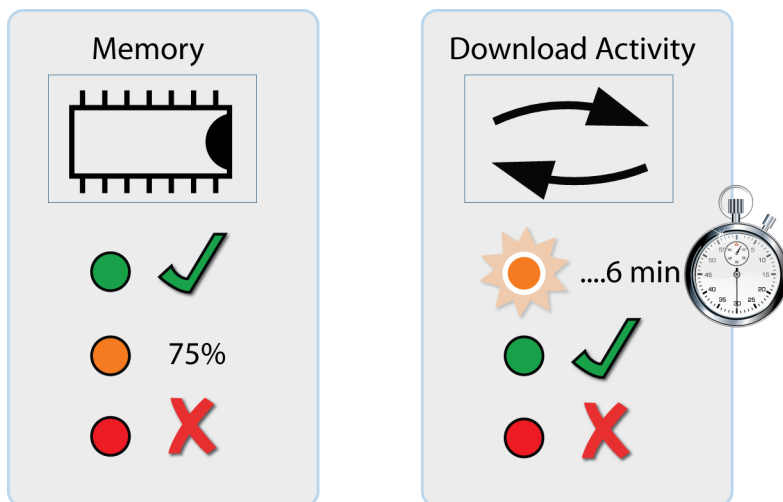Insert a valid Company Card into Slot 1 or Slot 2 of the vehicle tachograph.

Stoneridge

Siemens

Insert the digivu into the appropriate download socket of your specific tachograph unit as indicated.

The digivu is powered by the tachograph.

Activity and Memory LEDs

Memory

Download Activity

75%

....6 min

digivu internal memory
The digivu has 16MB of internal memory which on average will store 120+ VU data files. The indicator shows a green LED for sufficient memory, an orange LED for 75% used memory, and a red LED for insufficient space for the current download.

Your digiConnect configuration software allows you to set the digivu to automatically overwrite its oldest files (see page 11). In this mode the digivu no longer needs to indicate that there is insufficient space. Only use this setting if you are regularly archiving and managing your data efficiently.

digivu activity LED
When your digivu is connected to a Vehicle Unit the Download Activity LED will indicate the current stage of the download process. A flashing orange LED indicates that the digivu and the Vehicle Unit are communicating. A red LED indicates an error in the download process (see page 15 'Vehicle Unit Connectivity Issues' for more information). A green LED indicates that your download has been successful.

digiConnect Windows® Software v5.27 onwards

Minimum Recommended PC Specification:

> Operating System: Windows 7/8/8.1/10/11

> At least 1 Free USB port

Important: Do not connect the digivu before commencing the software installation.

Installing digiConnect:

1. Go to www.tachosys.com/Software to download the latest version of digiConnect.
   Please Note: older purchases of the digivu device (DV04) included a free USB flash drive which contain older versions of digiConnect. These can be used, but will need to be updated.
2. Select your required installation language and then click 'Next'.
3. You will receive a welcome message, simply click 'Next'.
4. Read the terms of the Licence Agreement then click on the 'I accept the terms in the Licence agreement' option and then click 'Next'. If you do not accept the terms the installation will be terminated.
5. Choose the folder where you wish the software program files to be installed. The default folder is the standard location for Windows® programs. Click 'Next'.
6. Click 'Install' to begin the installation. This may take several minutes.
7. Finally leave the box labelled 'Launch digiConnect' ticked and click 'Finish'.
8. If you opted to launch digiConnect at the end of the installation you will be taken to the main options menu to configure your individual settings.

Connecting the digivu to your PC

1.   Insert the digivu into the USB adaptor (see page 3).
2.   Now connect the digivu and adaptor to a free USB port on your PC.
3.   The memory LED will illuminate green and the activity LED will begin to flash to show that the digivu is communicating with the PC.

digivu V4 Read-Only Flash Drive Feature

Version 4 (and onwards) of the digivu has the ability to appear as both a regular digivu device to digiConnect and a removable flash drive.

This feature allows you to copy files from a digivu using any operating system that supports removable flash drives, including Mac OSX and Linux. The flash drive is read only so you cannot use it to store other files, the only thing you can do is copy the downloaded files to your PC. Deleting files is also unsupported via this method.

This feature can be enabled or disabled via digiConnect in the "Configure Device" options (see page 9).

View Files on Digivu

With the digivu connected to the PC, open the digiConnect software (see page 5 for download information). From the menu, select "View Files on Device". This launches the digiConnect File Browser.

File Types: A summary of the quantity of files by type is shown in the File Types section. You can click on 'Driver Card', 'Vehicle Unit' or 'Workshop Card' to restrict the file list to a particular type.

File Management Options:

Upload — allows you to upload files from your PC's hard drive to the digivu's internal memory.

Download — you can highlight any file (or multiple files) in the file window and click 'Download'. This will prompt you for a location and file name in which to save the file.

Download New — when a file is downloaded from the digivu, that file is then marked as 'Archived'. This feature allows the system to identify which files have been downloaded and which have not. The 'Download New' feature will only be active when Automatic Downloading is turned off.

Delete — allows you to highlight a file in the main window and click 'Delete'. This will permanently remove the file from the digivu.

Delete All — this option will permanently delete all files from the digivu. Clearly this option should be used with caution.

Properties — will show the properties of any highlighted file. Here you can change the 'Archive' properties of a file. If you deselect 'Archived' and 'Archived Remotely' next time you connect the digivu to your PC this file will be automatically downloaded provided that Archiving is set to Automatic (see page 11).

If you right click a file in the file browser main window you will see three options; Download, Delete and Properties. These options are exactly as defined above.
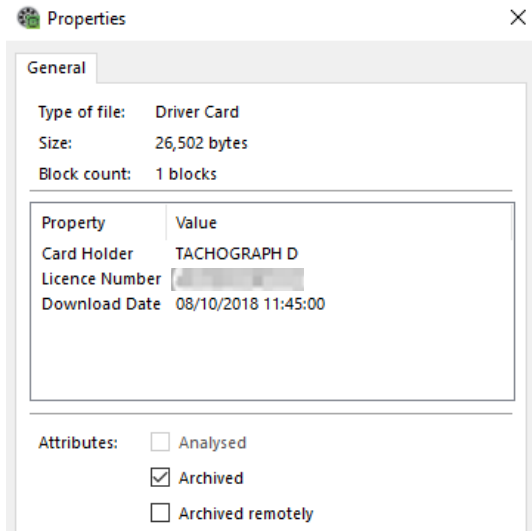
digivu Configuration

To configure the digivu settings or to see device details open digiConnect and select "Configure Device".
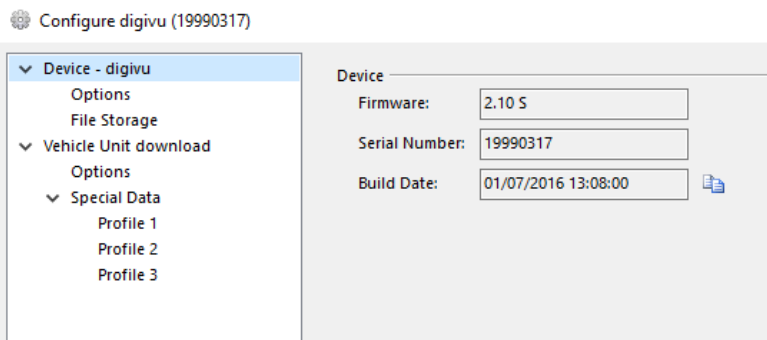
Options - Some models of tachograph support higher speed communications. Set Download Speed to "optimised" to allow the digivu to use this faster speed when available.

You also have the option to turn on/off the mass storage device function.

File Storage - This option has three settings; Oldest, Oldest Archived and Off. This configures how the digivu will manage its memory when it begins to run out of room. Setting this to "Off" will mean that at some point you will need to manually clear the files from the memory of the digivu.

Vehicle Unit Download - These options configure what data is going to be requested from the tachograph when a download is carried out. Simply check and uncheck the tick boxes as appropriate.

If required, you can choose to download "Special Data" which will download additional data from the VU if it matches one of the Special Data profiles which can be configured. After selecting the tachograph manufacturer, the table on page 10 has a list of the most common TREPs (Transfer Response Parameters) which can be selected for download.

Information on TREPS:

Whenever you reference Vehicle Unit file data on the digivu we refer to the term TREPS (transfer response parameters). A definition of each of the TREPS is listed in the table below.

TREP 1	Overview: includes data such as vehicle ID, Last VU download and by which type of card.
TREP 2	Activities: all tachograph recordable actions performed in the use of the truck by a driver or other card holder. Does not include faults.
TREP 3	Events and faults: all faults recorded on the tachograph including: overspeeds, power interruptions and time adjustments.
TREP 4	Detailed speed: truck speed is recorded every second the truck is moving. There is a limit of 24 hours of data.
TREP 5	Technical data: details relating to the vehicle unit identity, software version and calibration.

Viewing the digivu download log

The digivu stores a record of all downloads it attempts. To view this log, open digiConnect and select the "View Download Log" option. The log information is useful for identifying download problems. The Clear History button allows you to remove all of this history.

Updating the digivu's Firmware

Firmware updates are automatically handled by digiConnect when they are available.

Connect the digivu to the PC once all files have been archived. digiConnect will ask you if you would like to update the device's firmware if it is not running the latest firmware. The upgrade process will then begin. Internet access is required for this function.

digiConnect File Management and Configuration

View Archive Folder
In digiConnect, selecting "Open Archive Folder" will open the location where your downloaded files are stored.

Configuration Options
Open digiConnect icon and select "Options" from the main menu.

Archive — The options in the archive tab allow you to configure how and where digiConnect will store downloaded files.

File Naming Convention — Select the most appropriate option for you from the drop down menu in software Options.

Archive Settings — By default digiConnect will automatically download any new files from devices that are connected to the PC and place them in the designated Archive folder.

If set to "Automatic", this process will happen without any user interaction. If set to "Notify me when new files are available", you will need to click the notification window to begin the download process. If set to "Manual", you will need to manually download the files.

You can also configure the Archive folder location and choose whether to separate files into a sub directory for each driver or vehicle. If this option is not selected, all files will be placed in the main drivers and vehicles directories.
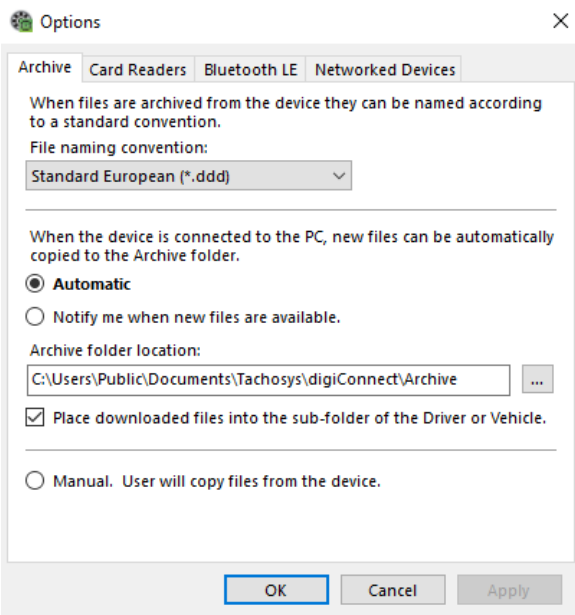
Card Readers — A card reader is enabled by default. However, if you choose to use the 'Stop Using Reader' option in the main menu this means that card reader will not be found by digiConnect.

To re-enable a card reader which has been disabled, you need to go to the Card Readers tab in Options menu. Locate the card reader from the list and tick the box to re-enable it and allow digiConnect to monitor that reader for driver cards. Any downloaded cards are placed into the 'Drivers' folder in the Archive.

digiConnect will support most standard card readers and the Tachosys digiCard. This allows you to upload driver cards directly into the digiConnect default Archive Folder.

Bluetooth LE - The Bluetooth LE tab is only for use when configuring a digiblu device (DB02).

Networked Devices - The Networked Devices tab is only for use when configuring a digipostpro device (DPP04).

digiCentral Settings (Main Menu):
Tachosys devices can send data straight to your analysis provider. Ask your provider if they support for this service.

digivu+ overview

If you purchased digivu+ card reader then you have extended the functionality of the digivu so that it can store driver card files. To provide total portability the digivu+ is a battery-powered only device and is supplied with four AAA batteries. The device draws a very low current so that the batteries will last for hundreds of card reads.

Real-Time Clock

The latest version of the digivu+ card reader includes an internal real-time clock. This means that any files uploaded to the digivu using the digivu+ card reader have the added benefit of a current time stamp on the file name.

File naming on older versions of the digivu+ are based on the last activity on the driver card.

Battery replacement

Place your thumb on the three concentric marks on the underside of the device. Slide the battery door away from the device by approximately 1cm and then lift the battery door away. Replacement of the battery cover is simply the reverse operation. See the image below for details of the required battery orientation.


Battery cover slides 1cm this way

Downloading a Driver Card file

digivu+ is totally integrated with the digivu download device. Insert your digivu into the digivu+ with the label on the outside. There is only one way the digivu can be inserted. The digivu is fully inserted when it lines up with the case of the digivu+ card reader.

You are now ready to accept driver card data. Hold the digivu+ so that the battery compartment is underneath. Now insert the driver card so that the gold connector enters the unit first and it is on the top when you look at it. A red light on the digivu after approximately 3 seconds will indicate that the operation has been unsuccessful. Try correcting the orientation of the driver card.

When the driver card is being successfully read the digivu activity light will flash orange. Once the operation is complete the digivu activity light will change to green. The operation takes approximately 30-60 seconds depending on the card type.
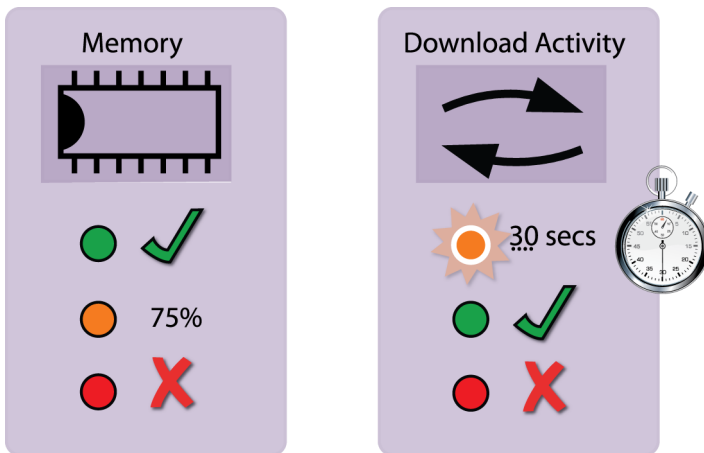
Vehicle Unit Connectivity Issues

If a Red LED displays in the Activity Window of the digivu during a Vehicle download: check the presence of a Company Card, ensure the vehicle is stationary and the vehicle's ignition is on, and try again by removing and reinserting your digivu.

If issues persist, consult the digivu's Download Log (see page 10) for error codes from the tachograph.

Error Code 12

Some Vehicle Units will report an error code 12 on the head unit display and the unit will indicate a download failure. Amongst other things, can be caused by a vehicle registration number change within the period being downloaded. To work around this problem, download from the date of the last calibration change or upgrade to the latest firmware.

My digivu does not appear as a Removable Drive on my PC

This feature is only available on digivu V4 onwards- check the serial number sticker on the back of the device.

This feature may have been disabled by default. To enable it, you need to open digiConnect, attach the digivu and wait for it to appear in digiConnect then select "Configure Device". You can then enable the Removable Drive feature in the device options.

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