Leica Geosystems

How to connect a CS20, TS16, TS60 or MS60 to a PC



This document explains how to connect a CS20 field controller, TS16 or TS60 total station and MS60 MultiStation to a PC via USB cable

This may be needed for the following operations

- transfer data to and from the CS20, TS16, TS60 or MS60 to the PC
- connecting the CS20, TS16, TS60 or MS60 to myWorld.

Please note that the USB drivers which may have been previously installed on a PC for SmartWorx Viva instruments will not work for the new instruments running Leica Captivate. However, the new drivers will work for both systems.

The drivers support Windows 7, Windows 8 (8.1) and Windows 10 operating systems.

Step 1 – Obtain the USB cable drivers

The new cable-drivers can be obtained in the following ways

- from the USB card delivered with each CS20, TS16, TS60 or MS60
 - Go to the Leica Driver installation folder on the USB card
- from myWorld

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- o Go to myProducts
- Select one of your registered CS20, TS16, TS60 or MS60
- Open the Tools tab
- Press the Download button next to the USB Driver file

Step 2 - Install the USB cable drivers

The cable-driver is installed by double tapping the appropriate .exe file depending on your operating system (32bit or 64bit). To check the version of your operating system, go to **Control Panel** > **System** > **System type**. Please note that the setup requires **administrative** privileges.

- Choose the Setup_Leica_USB_64bit.exe file for 64bit PCs
- Choose the Setup_Leica_USB_32bit.exe file for 32bit PCs
- Choose the Setup_Leica_USB_64bit_itanium.exe for 64bit servers and high performance PCs

In case that Windows Mobile Device Centre is not already installed on your PC it will be installed additionally otherwise this panel would not appear. Click Install to continue or Cancel to exit installation.

Requirement				
Mobile Device Center :	32			
	Mobile Device Center	Mobile Device Center 32	Mobile Device Center 32	Mobile Device Center 32

The installation is very simple – just follow the instructions in the Setup routine.



Ensure that any GS, TS/MS, CS or GR devices are unplugged from your PC during the installation of the USB cable drivers.

Step 3 – Connect the CS20, TS16, TS60 or MS60 to the PC and access your data

The following cables can be used

Cable	Connector 1 (to instrument)	Connector 2 (to PC)
name		
GEV234	Lemo 1, 8 pin	USB type A
GEV261		
	For CS20, TS60 and MS60 connect to the	

	Lemo port of the instrument	
GEV223	Mini USB type B	USB type A
	For TS16 connect to the mini-USB port of the instrument	

- 1. Ensure the CS20, TS16, TS60 or MS60 is turned on and connect the instrument to the PC. Please note that the Mobile Device Center is not supported for any instrument running Leica Captivate.
- 2. On the PC press the Windows Start icon
- 3. To connect to a CS20, type **\\192.168.254.1** including all \ into the search field... OR To connect to a TS16, TS60 or MS60, type **\\192.168.254.3** including all \ into the search field...

\\192.168.25	4.1\	×	Sh	ut down	
			0000		

- 4. ...and press Enter
- 5. File Explorer will open and it is now possible to browse the folders of the instrument and copy and paste files as required

() < III → Network → 192.168.254.1 →		- 47	Search 192.168.25	4.1	22
Organize Search active directory Network	and Sharing Center View remote prin	nters		-	0
 Network 192.168.254.1 Captivate SD Card Temp USB Drive AHERDSKDESIGN01 AHERLAB26901 AHERLAB26902 	E Captivate	SD Card	Temp	USB Drive	
4 items					

Folder	What is stored in the fold	er			Comment
Captivate	Name	Date modified	Туре	Size	This folder is basically
	Code	13.04.2015 12:54	File folder		the "internal memory" of
	Config	13.04.2015 12:54	File folder		Leica Captivate on the
	Convert	13.04.2015 12:54	File folder		instrument
	\mu Data	13.04.2015 12:54	File folder		mstrument.
	JBX DBX	13.04.2015 12:54	File folder		
	퉬 Download	13.04.2015 12:54	File folder		This is where all Leica
	🌗 Gps	13.04.2015 12:54	File folder		Captivate objects are
	퉬 Gsi	13.04.2015 12:54	File folder		stored – coordinate
	퉬 System	02.02.2015 08:08	File folder		systems codelists geoid
	🎉 TransferObject	13.04.2015 12:55	File folder		field files etc. and jobs
					held hies etc. and jobs
					which were created on
					the internal memory
SD Card	This folder can only be acc	essed if an SD car	d is inserted	into the	
	instrument				
	What is shown depends of	n the contents of t	the SD card.		
Temp	A temporary storage folde	er for files in use by	y Leica Capti	vate	There is no need to
					change or touch any-
					thing in this folder
LICD drive	This folder can only be ass		ico is ottoch	ad to the	
OSB drive	This folder can only be acc	esseu II a OSB dev	ice is attach	ed to the	
	instrument.				
	What is shown depends or	n the contents of t	he USB devi	ce.	
	I I				

Below is some information on the folder structure of the instrument

Step 4 – Connecting to myWorld

There are no special steps required to connect your instrument to myWorld. Once the USB drivers are installed, plug in the USB cable to the instrument and the PC, open myworld.leica-geosystems.com and log in to your account. You can now register new instruments, update the firmware on your instruments or activate a mySecurity key.