

# Leica GS18 FW update via Web Server

Date 27 November 2024

Creator Leica GNSS Product Management

**Equipment** GS18, PC, CS20 or tablet

#### Introduction

The information provided in this document applies to GS18 Basic, GS18 T and GS18 I. For simplicity, only the term GS18 will be used.

This document will explain how to update the Firmware on the GS18 via Web Server.

Guide Contents:

- Useful tips
- Downloading GS18 Firmware
- FW installation via Web Server (CS20)
- FW installation via Web Server (tablet)
- FW installation via Web server (PC)

### **Useful tips**

- Make sure that the CCP end date will allow you to update the Firmware in your GS18
  - The CCP end date can be checked via Captivate>Settings>About Leica Captivate>GS sensor, via Web server>Current status>Receiver information or in MyWorld (see screenshots below)
  - Compare the CCP end date with the Software maintenance date for Installation reported in myWorld (see screenshot below)

🕑 LeicaCaptivate		· 🗆	×
っ About Leica Captivate	The second secon	@	<b>15:59</b>
GS sensor AutoPole Leica Capti	ivate Legal information	n	
			_
IMU Boot			
IMU Firmware			
IMU HW version			
CCP end date			
Purchase mode			
GPS L2			
CDCIE			
OK		Page	

CCP end date information from Leica Captivate About panel.

tatus Overview						
atus Overview						
GPS C	2/8	💸 Gal	2/8	RTK	ŧ	Free Free
💸 Glo	2/6	💸 BDS	8/26	S www	Disconnected	Ð
lome   Go to Wo	ork!   Curren	nt Status	Instrument	User		
Status - Bece	iver infor	nation	2			
Status - Rece		nation				
	Receiver	and firm	ware			
Receiver type:	LEICA GS18					
Serial no.:	4900471					
Equipment no.:	30778386					
Maintenance end	2024-12-01					
	v	ersion				
EFI:	1.00 (24)					
OS:	7.00 (2882)					
Boot:	11.10 (85)					
Firmware:	9.00 (200)					
ME Boot:	7.200 (1)					
ME Firmware:	7.901 (0)					
ME serial number	: DNAE22070	025A				
ME HW version:	OEM719BL-	1.5				

CCP end date information from GS18 Web Server.

Overview	Software Man	uals Tools Accessories		
Back				
General				
	Product	GS18 T LTE&UHF Unlimited	Article No.	855305
	My Reference			
	Serial No.	4900471	Equipment No.	30778386
	Version	8.10 Save		
	SW Maint. End	25.08.2024		
Software				
			Release No. 9.00	Sort by Det
	Leica Captivate GS18 Firmv	ware		
The other Designation of the local division of the local divisiono	Important software that co	vers the main functions of the		103.97 MB
1999				EW.
	instrument. Firmware is als	ion 0110 2026		30,10,2024

Current CCP end date and required minimum CCP end date for GS18 firmware installation.

- You will need an SD Card to copy the Firmware file on it and insert into your GS18
- Uploading GS firmware can take some time. Ensure that the battery is at least 75% full before beginning the upload, and do not remove the battery during the upload process.

# Downloading GS18 Firmware

	Downloading GS18 FW file from myWorld portal					
	<u>https:</u>	//myworld-portal.leica-geosystems.com/				
1	Log in to the Leica myWorld portal.	<ul> <li>         ÷ C ti myworld-portalleica-geosystems.com/s/en-GB/         HEXAGON &amp;     </li> </ul>	my <b>World</b> ⊕ English UK			
	Note: If you don't have an account yet, please register.	Concected Anywhere. Anythree Much Call Call Call Call Call Call Call Cal				
2	Navigate to Product & Services, <b>myProducts</b> .	Weight HEXAGON       Selection         Products & Services       Marketing & Sales                 • > Product & Services > My Product             My Product & Services > My Product B           Filter by Product Category:              Filter by Product Types:          Att              ✓          Product       Serial Ne. / ID         Equipment Ne.       My Reference         Centract       Renewal / End	MyWorld h UK  Maria Chiara D'Achile C Delivery Date			
3	Select your GS18. Page to <b>Software.</b> Download the GS18 FW file.	myworld-portaldeica-geosystems.com/s/en-GB/application?c_app=products   Image: Control of the service        Image: Control of the service                                                                                 The second of the second of the second of the instructure of the instructu	Intervention of the second sec			
4	Copy the GS18 FW file to the <b>System folder</b> of the					

	SD Card.
	Note: If the System folder does not exist, please create it.
	Make sure that the GS18 FW file is only available in the System folder.
5	Insert the SD Card into the GS18.

## FW Installation via Web Server (CS20)

	F	W Installation via Web Server (CS20)						
	Bluetooth							
1	Use Captivate to connect via Bluetooth to the GS18 from the CS20 as normal.	<ul> <li>GS Connection Wizard</li> <li>GS Connection Wizard</li> <li>O Cable</li> <li>WLAN</li> </ul>						
2	To access Webserver (BT). Firstly, we need to minimise Captivate software on CS20 by press & hold 'Fn' key and then pressing 'back arrow' key at the same time.	Back						

3	Captivate will be minimised, start the <b>Webserver (BT)</b> icon from the desktop. Alternatively, the Web server can be accessed by opening a browser and entering: <u>http://192.168.253.2</u>	Wr Decuments   Decuments   Decuments   Decuments   Decuments   Photo   Viewer   Decuments   Decuments					
4	Tap on <b>'User'</b> option	Status Overview					
	on the top red bar.	💸 <sup>GP5</sup> / 💸 <sup>Gst</sup> / RTK 🖻 Pree					
		💸 ao/ 💸 aos/ 💿 www Disconnected 📼 70%					
		Home   Go to Work!   Current Status   Instrument   User					
		User					
		- Load firmware					
		Upload option key					
		Language management					
		Upgrade UHF radio firmware					
		Help & support					
		Legal information					
-	<b>.</b>						
5	Select Load	Status Overview					
		x ∞ -/ x ∞ · · · · · · · · · · · · · · · · · ·					
		Home   Go to Work!   Current Status   Instrument   User					
		User					
		Load firmware					
		- Upload option key					
		Language management					
		Upgrade UPF radio firmware     Help & support					
		Legal information					

-	Undate Cofficients								
6	Update Software	Status Overvi	ew						
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	that you tick the	E)							_
	checkboxes:	•	A Go	5/7	R BDS	11/12	O www	Disconnected	•
	<ul> <li>.fw file on GS</li> </ul>	Home   C	Go to Wor	k!   Current s	Status   I	instrument	User		
	SD card ● I read,	User - I	User - Load firmware						
	understood and	Software		Version					
	agree to the	Boot:		11.10 (85)					
	Software license	Firmware		9.00 (200)					
	agreement	ME Boot:		7.200 (1)					
		ME Eirmy	are.	7.901 (0)					
	Finally press 'green	EET.	are.	1.00 (24)					
		05:		7.00 (2882)					
	plus' icon to load	TMIL Poot		2.01 (2)					
	firmware.	TMU BOOK	•	2.02 (4)					
		IMU FIRM	ware:	2.03 (4)				1D 2D	
		Firmware	o :	07.58.5.0.0.1					
		Modem F	irmware:	03.017 (01.000	0.09)				
		Load ne .fw file o I read, u	w firmware n GS SD Ca nderstood a	ard (System folde & agree to the <u>Se</u>	er) oftware Licen	ise Agreement	1		
		LEICA GS	18   Versio	on: 9.00 (200)   S	Serial numbe	r: 3624518			
7	Allow the GS to restart and wait for all the lights to return to stabilise. Then refresh this page, the firmware should now be updated. (this may take a few minutes)					2 0 ¢			
				WLAN					
1	Use Captivate to	ົງ GS (	Conn	ection V	Nizarc		× @ 1	D D	(1) 13:16
	WLAN to the	How do		want to c	onnec	t to the	GS?		
	GS18 from the								
	CS20 as normal.	Blue	tooth						
		Cabl	e						
		Cubi	-						
		WLA	N						
	Note: WLAN is supported from CPT v.5.50 onwards.								
		Bac	:k					Ne	xt

2	To access Webserver(WLAN). Firstly, we need to minimise Captivate software on CS20 by press & hold 'Fn' key and then pressing 'back arrow' key at the same time.	-       ×         F1       F2         F2       F3         F4       F5         F6       F4         F1       F5         F6       F4         F7       F9         F9       F10         F1       F12         F1       F12         F1       F12         F1       F12         F1       F12         F1       F12         F2       F0         F1       F12         F2       F1         F1       F1         F1       F1         F2       F1         F1       F1         F2       F1         F3       F1         F4       F1         F2       F1         F3       F1         F1       F1         F1       F1         F1       F1         F1       F1         F2       F1         F3       F1         F1       F1         F2       F1         F3       F1         F1       F1
3	Captivate will be minimised, start the <b>Webserver (WLAN)</b> icon from the desktop. Alternatively, Web server can be accessed by opening a browser and entering: <u>http://192.168.251.2</u>	W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W   W W
4	Tap on <b>'User'</b> option located on the top red bar.	Status Overview
5	Further steps are the same as for the Bluetooth connection.	



-	_	
2	Firstly, we need to minimise Captivate software on CS20 by press & hold 'Fn' key and then pressing 'back arrow' key at	FIFZ F3 F4 F5 F6 F1 F2 F3 F6 F1 F2 F3 F1 F2 F3 F6 F1 F2 F3 F6 F1 F2 F3 F1 F2 F3 F6 F1 F2 F3 F1
3	Captivate will be minimised, start the <b>Webserver (Cable)</b> icon from the desktop. Alternatively, the Web server can be accessed by opening a browser and entering: http://192.168.254.2	W Device   W Device   W Device   W Device   W Device   Photo Device   Poto Device <td< td=""></td<>
4	Tap on <b>'User'</b> option located on the top red bar.	Status Overview   Status Overview     Image: support
5	Further steps are the same as for the Bluetooth connection.	

## FW Installation via Web Server (tablet)

	FW Installation via Web Server (Tablet)						
	Bluetooth						
1	Use Captivate to connect via Bluetooth to the GS18 from the tablet as normal.	<ul> <li>GS Connection Wizard  S</li> <li>GS Connection Wizard  S</li> <li>D 2D 0</li> <li>Eluetooth</li> <li>WLAN</li> </ul>					
		Back					
2	To access						
	Webserver(Bluetooth). Firstly, we need to minimise Captivate software on the tablet. CS35/CC200: Press the 'Windows' key. CS30/CC180: Swipe right from the left edge of the screen.						



5	Update Software	Status Overvi	iew						_			
-	Please make that you				the Gal	4/5	DTM.		E Frank			
	tials the sheadsheave as	A	*	11/11	**	4/5	RIK					
	tick the checkboxes:	Ŷ	SA Go	5/7	Se BDS	11/12	0 www	Disconnected	ED I			
	<ul> <li>.fw file on GS SD</li> </ul>											
	card	Home   0	Go to Wor	k!   Curren	t Status   1	instrument	User					
		lleen l	and fir									
	<ul> <li>I read, understood</li> </ul>	User - I	Load III	mware								
	and agree to the	Software Version										
	Software license	Boot:	Boot: 11.10 (85)									
		Firmware		9.00 (200)								
	agreement	ME Boot		7.200 (1)								
		ME Firmy	vare:	7.901 (0)								
	Finally press 'green											
	nlus' icon to load	05:		7.00 (2882)								
		TMIL Root		2.01 (2)								
	firmware.	TMU BOOK		2.02 (2)								
		IMU FIRM	ware:	07502601	1							
		Firmware	0	07.36.3.0.0.1								
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	and wait for all the lights to return to stabilise. Then refresh this page, the firmware should now be updated. (this may take a few minutes)											
			WL	.AN								
1	Use Captivate to connect	S GS Cou	nec	tion V	Nizaro		× @'	1D	@ .			
	via WLAN to the GS18		ince		- 12410			2D	<ul> <li>─ 14</li> </ul>	4:35		
	from the tablet as normal.	How do yo	ou wa	int to c	onnect	t to the	e GS?					
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		<b>WLAN</b>										
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1	Back Next											

2	To access <b>Webserver(WLAN)</b> . Firstly, we need to minimise Captivate software on the tablet. CS35/CC200: Press the 'Windows' key. CS30/CC180: Swipe right from the left edge of the screen.	Panasonic ror       Personic ror         Leica Captivate - Home       Provide Provi
3	Open a browser and enter: http://192.168.251.2	Status Overview
	Tap on ' <b>User'</b> option located on the top red bar.	Home       Go to Work!       Current Status       Instrument       User         User       User            Load firmware       Upload option key            Language management       Upgrade UHF radio firmware            Help & support
4	Further steps are the same as for the Bluetooth connection.	

General note:

For PC connections, cable connection is recommended rather than Bluetooth and WLAN.

For Bluetooth and WLAN connections, the procedure mentioned below needs to be repeated for every single GS instrument you want to connect to.

Moreover, WLAN connection might be unstable because Windows tends to disconnect easily from the GS18 because it connects to networks that provide Internet access.

	FW Installation via Web Server (PC)					
	Cable					
1	Log in to the Leica myWorld portal.	<ul> <li>C I I myworld-portal.leica-geogystems.com/s/en-GB/</li> <li>HEXAGON Leica</li> <li>HEXAGON Leica</li> <li>English UK</li> </ul>				
	Note: If you don't have an account yet, please register.	Canacteld. Anywhere. Anythere. PupUnIC Lastoner Pontal. Myendon. product news and updates, user manages. New software releases. pranny. as upon and other services to keep your exupres. Description of the se				
2	Navigate to Product & Services, <b>myProducts</b> .					
3	Select your GS18. Page to <b>Tools.</b> <b>Download the GS &amp; CS &amp;TS driver</b> .	Improvide portal leica-geogystems.com/s/en-GB/application?c_app=products   myWorld   Products & Services   Mariae Chiere D'Achile   Improvider   Overview Software Manuals Tools Accessories   Improvider   Overview Software Manuals Tools Accessories   Improvider   Description: dSIBT LIEBARHF Maintee Actice No. 85005   Improvider   Description: dSIBT LIEBARHF Maintee Actice No. 85005 Improvider   Improvider   Description: dSIBT LIEBARHF Maintee Actice No. 85005 Improvider Improvi				

3	Install the GS GS & CS &TS driver on your PC.	SS & SS & TS Driver 22 Mt       V6.02       Download         Diver for connecting (SS / TS / SC devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 10       Miz 2MB       PEC         OB & SS & TS Driver 24 Mt       V6.02       Download         Diver for connecting (SS / TS / SC devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 10       Miz 25 MB       Download         OB       Diver for connecting (SS / TS / SC devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 10       Miz 25 MB       Download         OB       Diver for connecting (SS / TS / SC devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 10       Miz 25 MB       Download         Diver for connecting (SS / TS / SC devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 10       Miz 1MB       DEC         Operating system.       V62       Download       Diver for connecting (SS / TS / TS devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 2, Windows 8 and Windows 2, Windows 8 and Windows 10       Miz 1MB       DEC         Operating system.       VEC       Download       Diver for connecting (S) / TS / TS / C devices to a PC via USB cable. The drivers support Windows 2, Windows 8 and Windows 2, Windows
4	Connect the GS18 to your PC via cable. Note: GEV234 (Lemo to USB) can be used.	
5	Open a browser and enter: http://192.168.254.2 Tap on 'User' option located on the top red bar.	Status Overview          Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview       Image: Status Overview<

6	Select Load Firmware.	Status Overview						1
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		• Upgrade	UHF radio f	irmware				- 1
		<ul> <li>Help &amp; su</li> </ul>	pport					- 1
		<ul> <li>Legal info</li> </ul>	rmation					_
<u> </u>	Undete Oeffrigere							
7	Update Software	Status Overview						
	the checkboxes:	🕥 💸 <sup>GPS</sup>	11/11	😽 Gal	4/5	RTK		Free Free
	fw file on CS SD card	· · · ·	5/7	Se BDS	11/12	O WWW D	sconnected	-
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	agree to the Software	Home   Go to Wor	k!   Curre	nt Status   Ins	strument	User		
	license agreement	liser - Load fir	mware					
		USEI LUUU III	inware					
	Finally press 'green	Software	Version					
	plus' icon to load	Boot:	11.10 (85)					
	firmware.	Firmware:	9.00 (200)					
		ME Boot:	7.200 (1)					
		ME Firmware:	7.901 (0)					
		EFI:	1.00 (24)					
		OS:	7.00 (2882)					
		IMU Boot:	2.01 (2)					
		IMU Firmware:	2.03 (4)					
		UHF Radio Firmware:	07.58.3.6.0	.1				
		Modem Firmware:	03.017 (01.	.000.09)				
		Load new firmware	Load new firmware					
		I read, understood	& agree to the	e <u>Software License</u>	Agreement			
		LEICA GS18   Versio	on: 9.00 (200)	)   Serial number:	3624518			
Q	Allow the GS to restart and							
0	wait for all the lights to							
	return to stabilise.			52.2				
	Then refresh this page, the							
	firmware should now be							
	updated. (this may take							
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	Bluetooth				
1	Open Bluetooth & other devices settings page. Select Add Bluetooth or other devices button.	<image/>			
2	Select your GS18 and enter the code 0000 to pair with it.				
3	Once the devices are paired, open Control Panel\Network and Internet\Network Connections and select the Bluetooth Network Connection adapter.	<ul> <li>Network Connections</li> <li>         ← →          →           ↑               • Control Panel &gt; Network and Internet &gt; Network Connections      </li> <li>             Organise -         </li> <li>             Bluetooth Network Connection             Not connected             Bluetooth Device (Personal Area         </li> <li>             Cisco AnyConnect Secure Mobility             Igs-net.com         </li> </ul>			

4	Select your GS18 and press Connect using> Ad hoc network.	Pevices and Printers     ← → ∨ ↑			
		GR1830029         GR1830032         GR1831475         GS16_BT         GS320993         GS3600295         GS3615947         GS3713291			
5	Once the connection has been established, right click on the GS18. Select properties >Internet Protocol Version 4 (TCP/IPv4) and configure it as shown on the right side.	Internet Protocol Version 4 (TCP/IPv4) Properties       X         General       General         You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.       Obtain an IP address automatically         Obtain an IP address automatically       Image: Use the following IP address:       Image: IP address: Use the following IP address:         IP address:       192 . 168 . 253 . 1       Subnet mask:       255 . 255 . 255 . 0         Default gateway:       .       .         Obtain DNS server address automatically       Image: Use the following DNS server addresses:       Image: Use the following DNS server: Image: Image: Image: Image: Use the following DNS server: Image: Image: Image: Image: Image: Image: Image			
6	Open a browser and enter: http://192.168.253.2 Tap on ' <b>User'</b> option located on the top red bar.	Status Overview          * ars      /       * as      /       RTK       Image: second			
		User • Load firmware • Upload option key • Language management • Upgrade UHF radio firmware • Help & support • Legal information			

7	Further steps are the same as for the Cable						
	connections.						
	· · · · · ·	WLAN					
1	Open the Wifi settings, select your GS18 and connect to it.						
2	Once the devices are	$\leftrightarrow \rightarrow \sim \uparrow$ E > Control Panel > Network and Internet > Network Connections					
	Control Panel\Network and Internet\Network Connections and select the Wifi network adapter.	Organize   Disable this network device Diagnose this connection Rename this connection View state	tati				
		Bluetooth Network Connection Not connected Bluetooth Device (Personal Area General Bluetooth Device (Personal Area	Co				
		Wirk       Unidentified network         Unidentified network       IPv4 Connectivity:       No Internet access         IPv6 Connectivity:       No network access         Meda State:       Enabled         SSID:       GS18_GS4912008         Duration:       00:00:17         Speed:       54.0 Mbps         Signal Quality:       Junation:         Details       Wireless Properties         Activity       Sent         Packets:       84         Image:       O         Opporties       Disable         Diagnose       Close					
3	Select properties> Internet Protocol Version 4 (TCP/IPv4) and configure it as shown on the right side. The IP address should be: 192.168.251.x with x greater than 3.	Internet Protocol Version 4 (TCP/IPv4) Properties	-				
		You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Set the following IP address:					
		IP address: 192 . 168 . 251 . 5					
		Subnet mask: 255 . 255 . 255 . 0					
		Default gateway:					
		Obtain DNS server address automatically					
		Use the following DNS server addresses:					
		Preferred DNS server:					
		Validate settings upon exit Advanced					
		OK Cancel					

<ul> <li>5 Open a browser and enter <u>http://192.168.251.2</u></li> <li>Tap on 'User' option located on the top red bar.</li> </ul>	Status Overview          Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Image: Status Overview         Imag
<ul> <li>Further steps are the same as for the Cable connection.</li> <li>Note: After successful update, make sure to revert the properties of the Wifi adapter to their default settings as shown in the picture on the right side.</li> </ul>	Internet Protocol Version 4 (TCP/IPv4) Properties       ×         General Alternative Configuration       You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. <ul> <li>Obtain an IP address automatically</li> <li>Use the following IP address:</li> <li>IP address:</li> <li></li></ul>