

# Installation and start-up operations Quick Start guide

## TGBF

## Infrared Camera





Thank you for choosing the TGBF infrared Camera.



 Find a complete software and hardware documentation in the Help menu in the GP Connect software. (Help → Documentation)

#### Connection

Connect the USB cable in the USB socket



ELETTRO2000



#### **Software Installation**

1 Connect the USB flash drive on your computer, the USB name is ELETTRO2000.



2 Open the directory ELETTRO2000



#### 3 Launch setup.exe

	Active Thermography
	ADAM IPC Tool
	DFU Driver
	Documentation
	ISSetupPrerequisites
	Lang
	MeasuringLayout
	PI NetBox
	Samples
	SDK
	Serial communication
	USB Server
s.	Autorun
	Changelog
	Corporate
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ß	Setup

Seleziona la lingua dell'installazione

4 Select the language



5 Press Next to select destination.





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7 Select the Start menu Folder and Press Next.

8 Flag the desktop shortcut and press next to continue.

Press Install to Start.

9

10 Wait till the end of installation.



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11 Press Next to continue.



12 Press Finish to complete and Launch GP Connect.





13 Change the language Tools/Language/English (Strumenti/Lingua/English).

GP CONNECT (Rel. 3.9.3064.0)						
File Edit View Devices	Тоо	ls Help				
Temp. of measure area		Layout		÷		
Maximum:	**	Configuration	Alt+C			
		Save current configuration	Ctrl+S			
		Line scanner mode		۲		
		Language		•		Chinese (Simplified, China) / 中文(中国)
		Extended		۲	~	English / English
						French (France) / français (France)
						German / Deutsch
						Italian / italiano
					Japanese / 日本語	
						Korean / 한국어
Polish / polski			Polish / polski			
						Russian / русский
						Spanish (Spain, International Sort) / español (España, alfabetización internacional)
						Turkish (Turkey) / Türkçe (Türkiye)

14 Change the Layout Layout/Select ELETTRO2000 and Press Load.

Dep Connect (Rel. 3.9.3064.0)										
File	Edit	View	Devices	Тоо	Tools Help					
Temp. of measure area Layout					Layout		•		Standard layout	
Maximu	m:			**	Configuration	Alt+C			<layout> 💌</layout>	
			Save current configuration	Ctrl+S		đ	Load layout			
			Line scanner mode		۲		Save layout			
					Language		×	X	Delete layout	
					Extended		۲		Import/Export layouts	

The Configuration is finish, this is the Layout of the Software.





### Connecting the Camera

To connect the camera to the PC, plug the USB cable to the camera first. Afterwards connect it to the PC (to disconnect the camera and the computer remove the USB cable from the computer first and then disconnect it from the camera).

Connect the USB cable in the socket



#### Starting the Software





Install the calibration files at first start of the software.



Figure 1 Calibration data transfer

After the calibration files have been installed the live image from the camera is shown inside a window on your PC screen.



Adjust the focus of the image by turning the exterior lens ring at the camera.



Figure 2 - Focus adjust

If Internet connection is not available this window will appear

Warning	—		×
Error while reading calibration files ! Following file(s) was/were no	t found or i	is/are cor	rupted:
C:\Users\UT-PRO\AppData\Roaming\Imager\Cali\Cali-20042299.x	ml		
Open directory to import the file(s)?			
Yes No			
Select each file separatly			

Figure 3 - Calibration import from USB

To solve this problem, open the directory on the USB to import the Calibration file.

Note:

If the PC is under domain, please follow the instructions below:

- 1. Open the directory Califiles SN00000000<sup>1)</sup> from the USB
- 2. Copy all the files
- 3. Paste the files into C:\Users\xxxxx\AppData\Roaming\GP CONNECT\Cali
- <sup>1)</sup> is the serial number of the camera

xxxxxx is the name of the user where the software is installed.

For to see the directory AppData:

- 1. Open File Explorer from the system tray.
- 2. Select View> Options> Change Folder and Search Options.
- 3. Select the View tab and in Advanced settings select Show hidden files, folders and drives and OK.



#### Calibration

For a correct calibration follow the instruction below:

Press ALT+C or Tools>Configuration>Device

🐌 SHIELD PRO (Rel. 3.8.3060.0)							
File Edit View Devices	Tools Help						
Temp. of measure area		Layout	+				
Maximum:	🛠 Configuration ALT+C						
		Save current configuration CTRL+S					
		Line scanner mode	•				
		Language	۲				
		Extended	•				

	^
IR Image arranging Alams Event grabber External Cor Snapshots / Copy to clipboard Trig. Recording / Snapsho General Measure areas Temp. profiles Temp/Time dia	mmunication  Extended Layout    tts  Capture Screen    agram  Device    Device  Device (PIF)    Referencing  Recording    Plication start:
○ Fixed value  55 ÷ [°C]    Fixed radiometric values  Emissivity:    Emissivity:  0.975 ÷    Transmissivity:  1.000 ÷    (IR-window compensation)  1.000 ÷    Ambient temperature:  23.0 ÷ [°C]	IR: 382x288@27Hz ✓

The emissivity must be set from 0.975....0.980

The fixed value to set depending on the background wall type, below three types of walls and the corresponding value:

CONDITION	TRANSMISSIVITY VALUE
Wall with uniform background wall.	1
Wall without uniform background wall (for example presence of windows).	0,9
Wall without uniform background wall (for example presence of windows and lamps or other heat sources).	0,8

Note:

the values are indicative and may change according to the different conditions.