



HOW TO DRIVE A PANTHER WITH CAPTURE

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Summary

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- II. PANTHER unit connection trouble shooting
- III. GPU settings
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Preamble

PANTHER WITH CAPTURE

Capture v4.0 is able to drive the PANTHER unit.

That brings to this instrument an easy-to-use interface, one-click calibration tools and analysis and reporting software in a single ecosystem.

All PANTHER units are compatible with Capture v4.0. Nevertheless, Capture PRO-PANTHER activation is required to use Capture with the Panther unit.

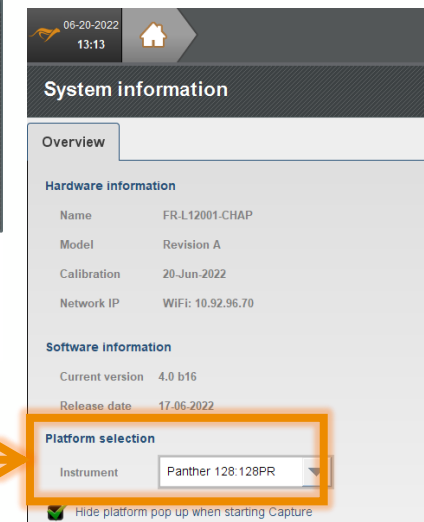
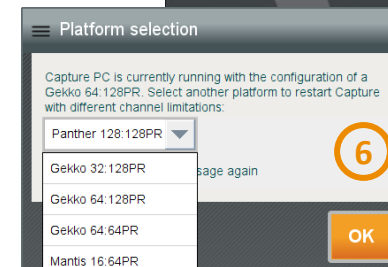
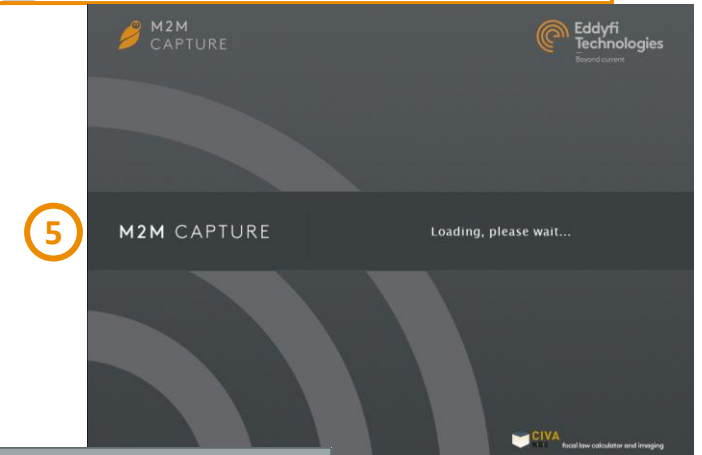
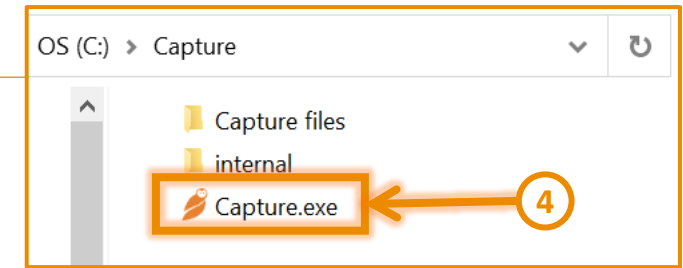
Capture PRO-PANTHER can be used for Setup, Analysis and Reporting without any PANTHER connected. (Simulation mode)

PANTHER unit quick start

PANTHER unit quick start

LAUNCHING PROCESS

1. Start the PC.
2. Connect the USB cable between the PC and the Panther
3. Start the Panther unit.
4. Launch Capture with the *Capture.exe* command (or the shortcut created on the desktop).
5. A Capture splash screen appears for a few seconds and then Capture opens.
6. A pop-up windows gives the choice of the unit to be used (or to be emulated). To use a Panther unit, select a Panther model in the list.
7. This by default choice can be changed in the Info system panel.
8. A restart of Capture may be required.



PANTHER unit quick start

PANTHER CONNECTION CHECK

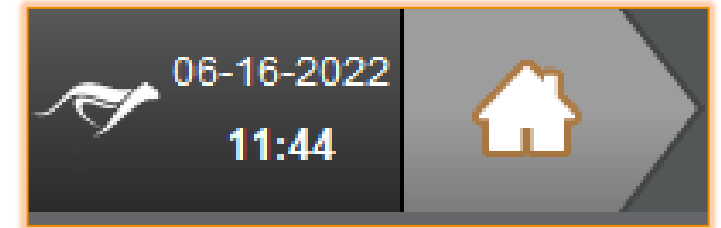
If Capture is currently and correctly running the Panther unit, then the Panther logo at the top left of the screen is colored in **white**.

Otherwise, it is displayed in **orange**.

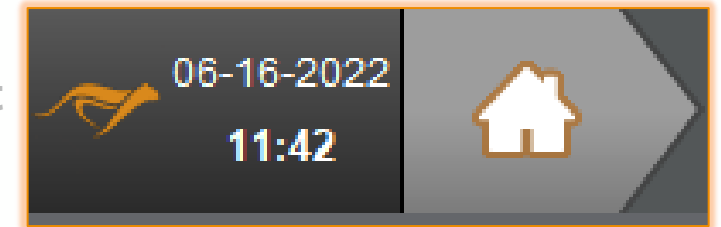
In most of the cases, if the Panther logo is **orange**, a pop-up window appears during the Capture launching (see [in the trouble shooting section](#) to have more details).



Panther
connected



Panther not
connected



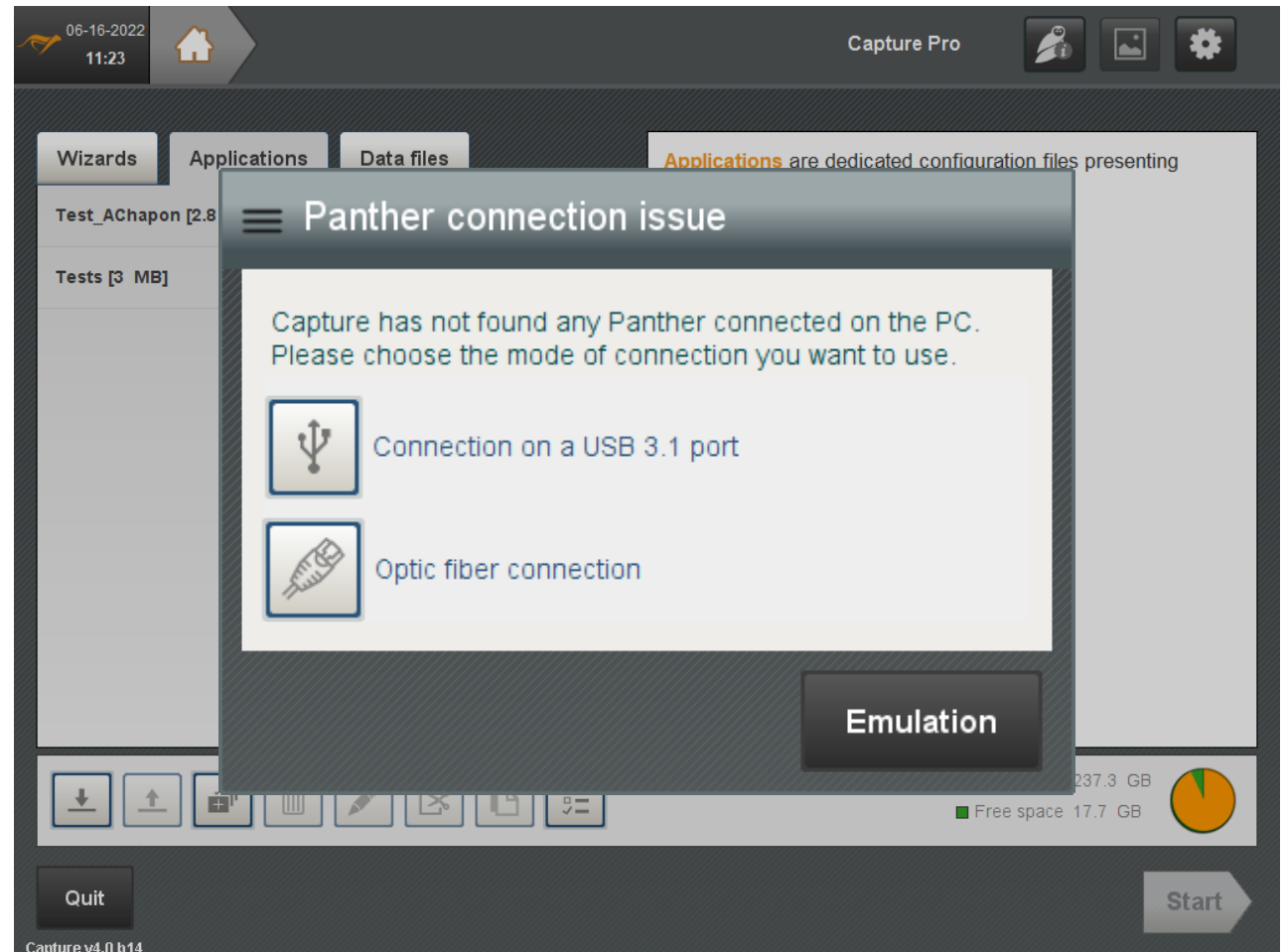
PANTHER unit connection trouble shooting

PANTHER unit connection trouble shooting

PANTHER CONNECTION ISSUE

In the case where no Panther is found when Capture starts, then a pop-up appears (if not, see [the licensing section](#)).

- [Connection on USB port](#): standard mode of communication between the PC and the Panther unit
- [Connection with Ethernet / optic fiber](#): optimized for large amount of data with external processing (typically TFM)
- [Emulation](#): Capture simulates a Panther with synthetic signal if no any Panther plugged. This mode is convenient for **analysis** or to prepare a **set-up**

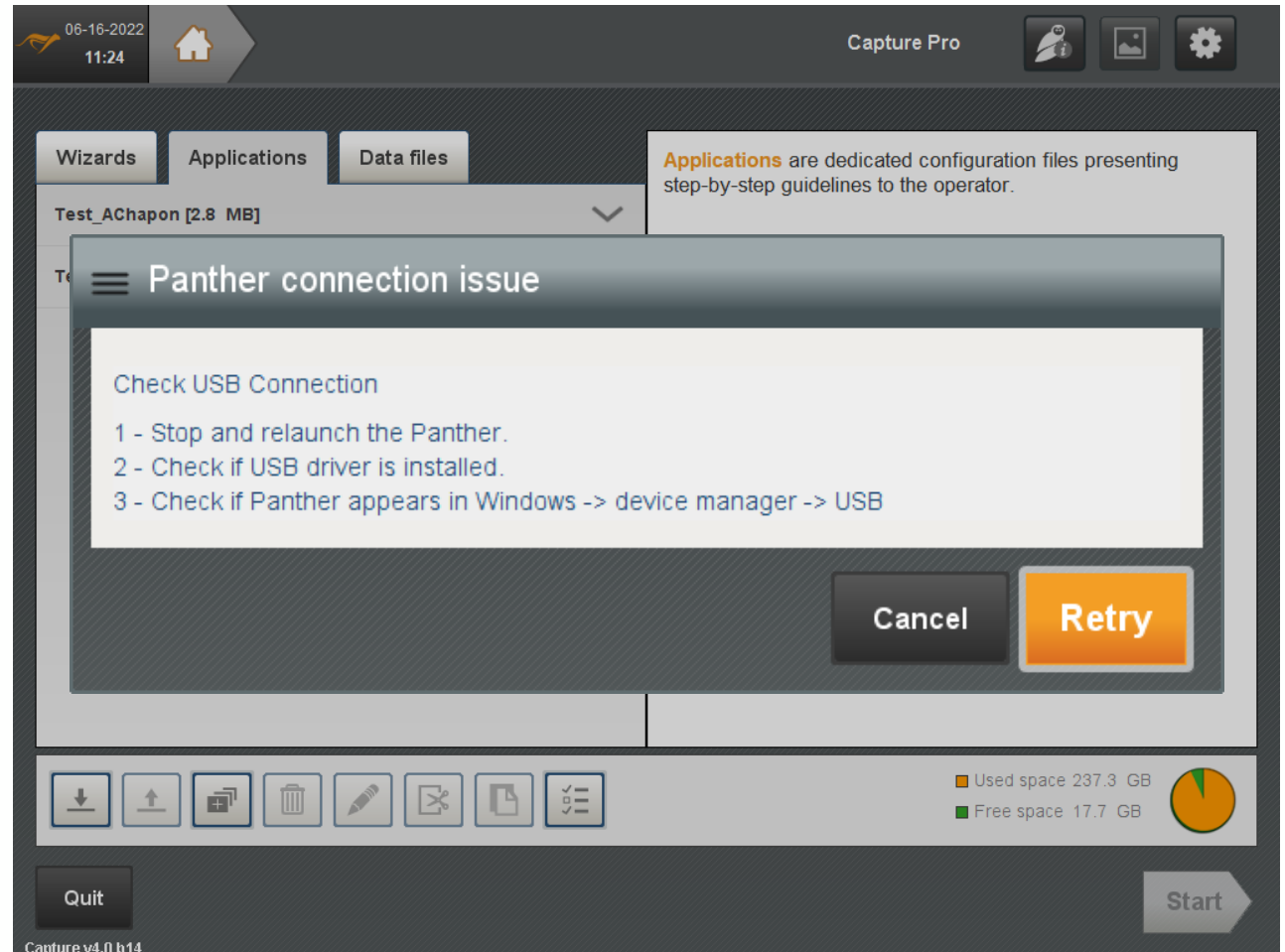


PANTHER unit connection trouble shooting

USB CONNECTION ISSUE

If the USB connection is chosen, the first way to troubleshoot is to shut down and restart the Panther unit and then Retry a connection.

If the pop-up reappears, the USB connection is not detected by the PC, follow the procedure in the [section about the USB driver](#).



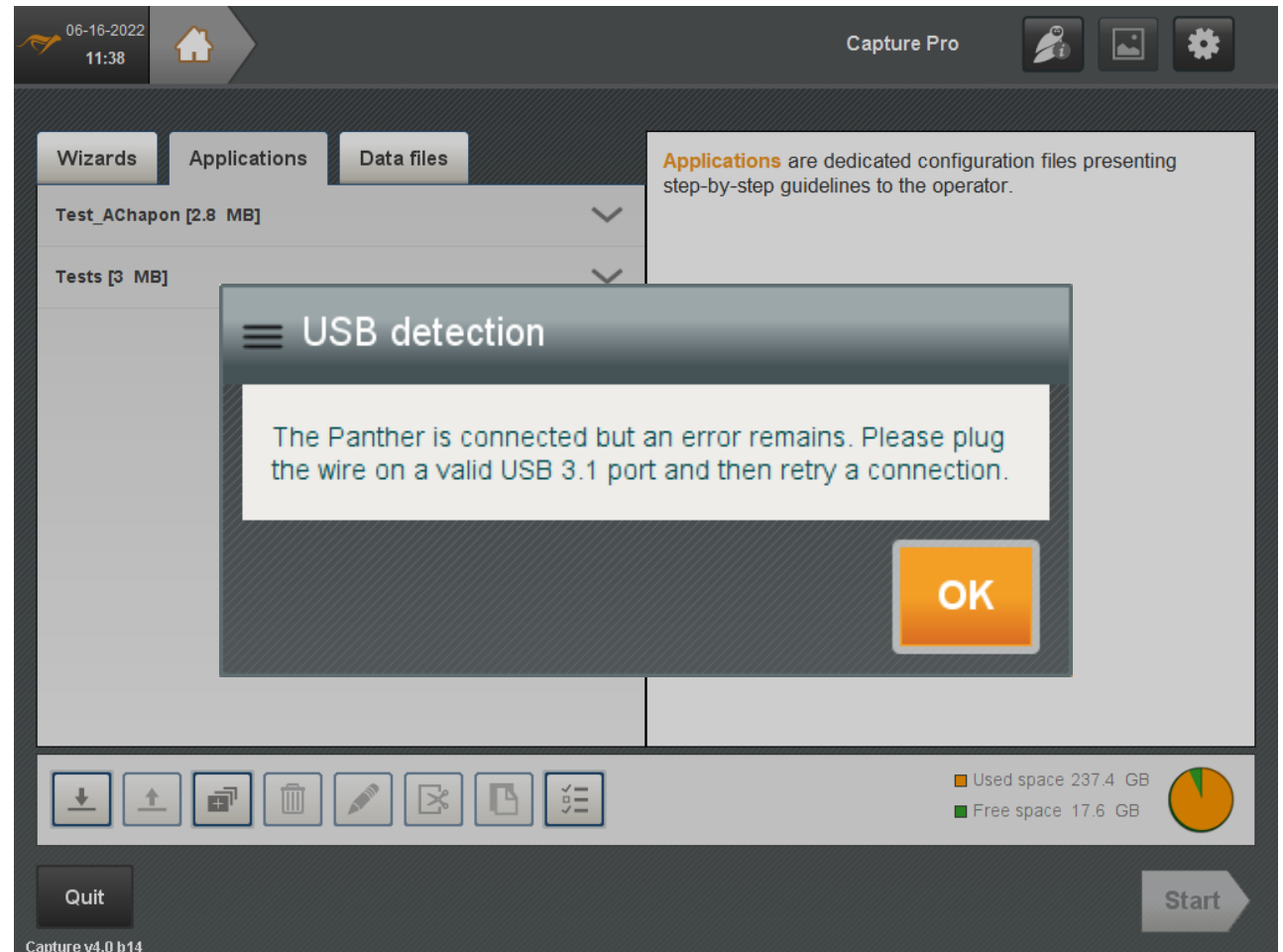
PANTHER unit connection trouble shooting

USB CONNECTION ISSUE

A **USB 3.0** port is required to connect the Panther unit to the PC.

Capture is able to recognize the Panther but not to drive it if the unit is connected to a USB 2.0 port or lower.

After plugging the Panther on a valid USB 3.0, a restart of Capture could be required.

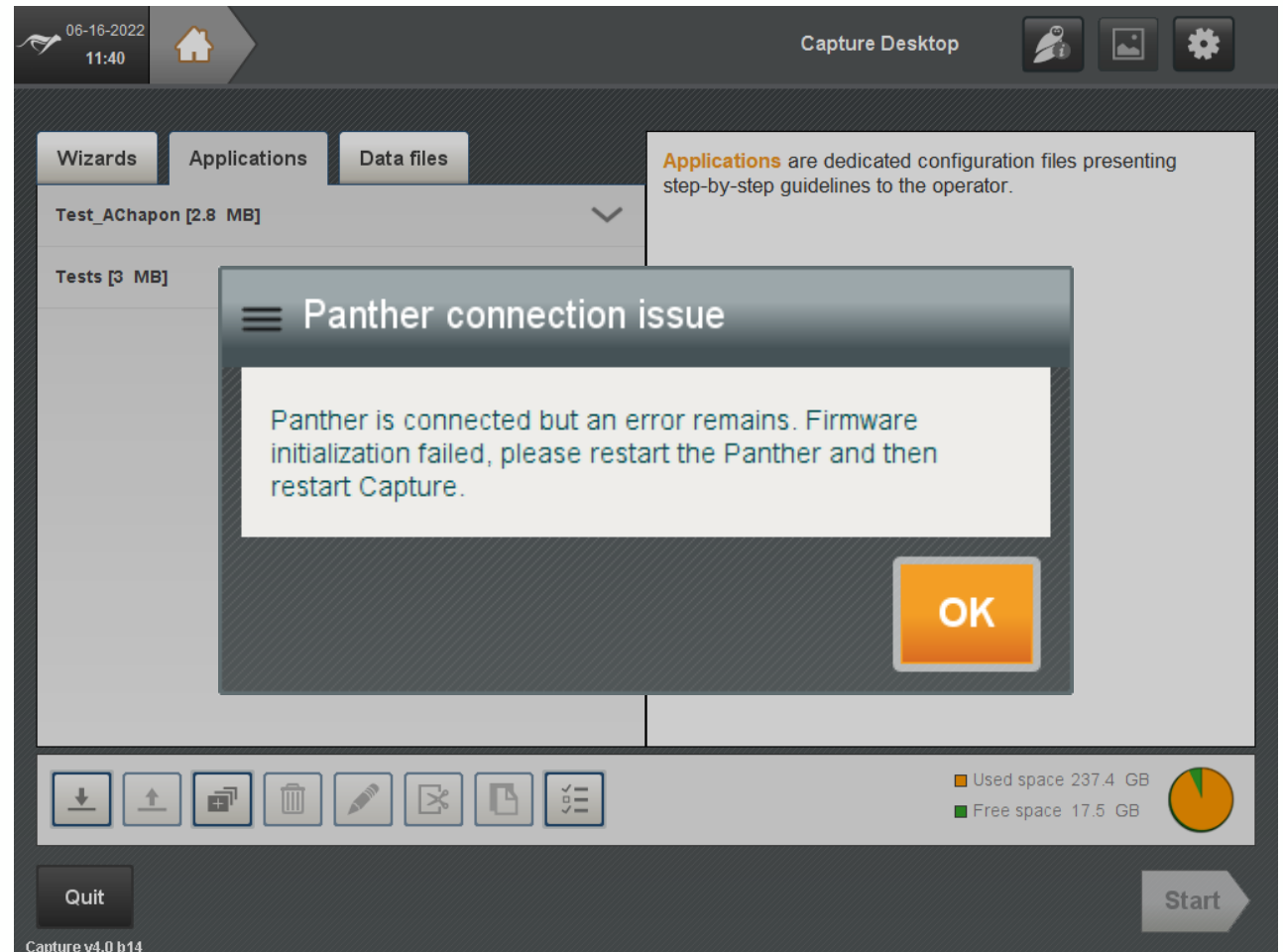


PANTHER unit connection trouble shooting

FIRMWARE INITIALIZATION ISSUE

Firmware synchronization failure between the PC and the Panther can require a restart of the unit and/or Capture.

Most of the cases when this pop-up window appears, it is due to the loss of the USB connection or if the Panther has started before the PC.



PANTHER unit connection trouble shooting

OPTIC FIBER SETTINGS

If the optic fiber solution is selected, enter the IP address of the Panther unit and select the network adapter (press scan to refresh the list).

Panther units compatible with an Ethernet / Optic fiber connection have a serial number greater than '500'.

The screenshot shows the 'Panther connection issue' window in the 'Capture Companion' application. The window title is 'Panther connection issue'. It contains the following text and controls:

- Check optical fiber connection
- 1 - Stop and relaunch the Panther.
- 2 - Check if firewall enable network UDP access to Capture.
- 3 - Check IP address of the Panther and computer network adapter IP address range are compatible :

Fields and buttons:

- Network adapter: Intel(R) Wireless-AC 9560 160MHz (dropdown menu) and Scan button
- Network IP: 10.92.96.70 (text input)
- Panther device: (empty dropdown menu) and Detect button
- Panther IP: 192.168.0.166 (text input)

Buttons at the bottom: Cancel, Retry (highlighted in orange), Quit, and Start.

Top status bar: 06-17-2022 11:08, Capture Companion, and system icons.

Bottom left: Capture v4.0 b15

Firmware update

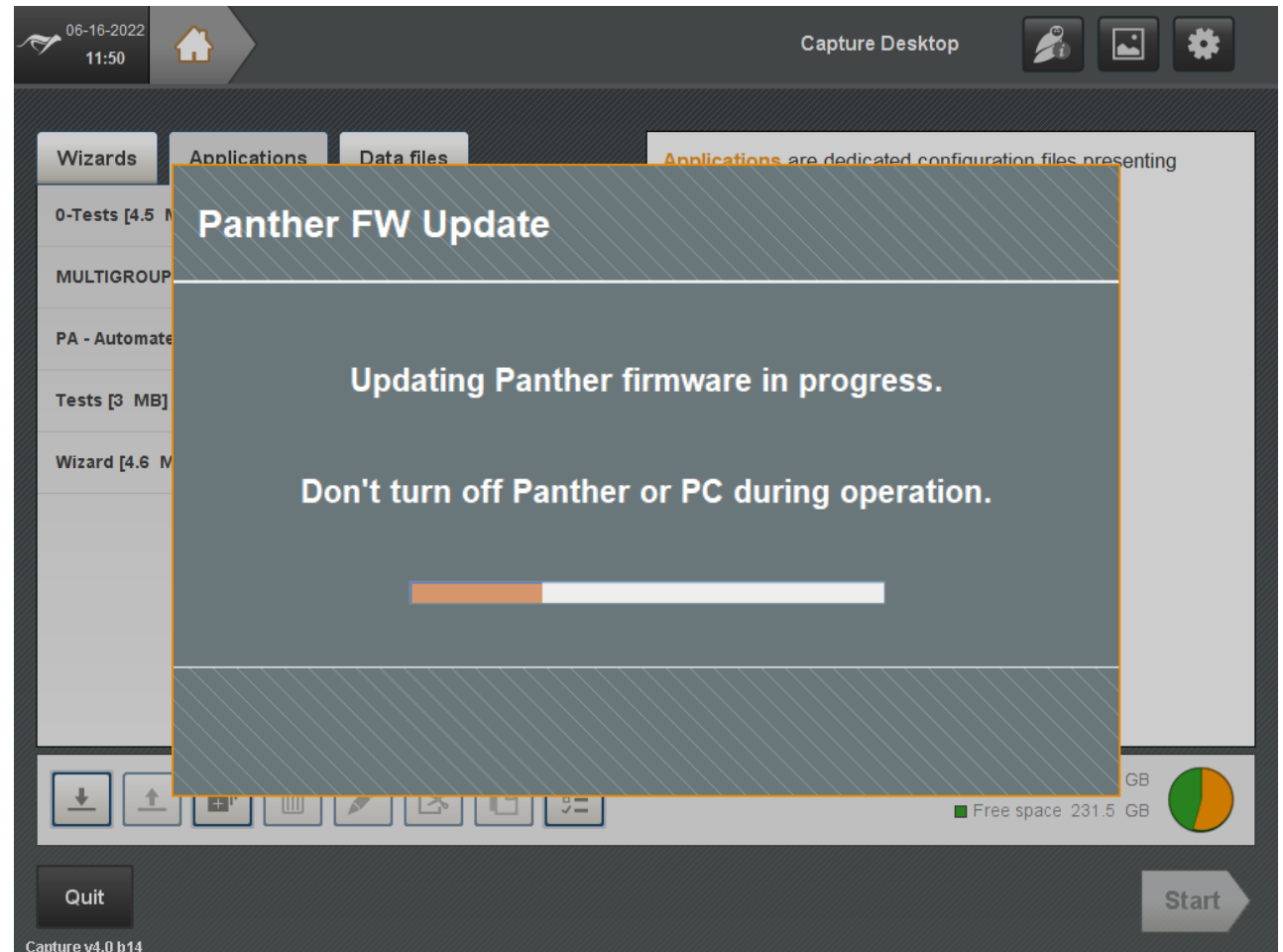
Firmware update

PANTHER FW UPDATE

After an update of the Capture version, the firmware of the Panther could be re-written in order to increase the performance of the instrument.

It is important to keep the connexion between the PC and the Panther unit during operation.

The update can take up to two minutes.



GPU settings

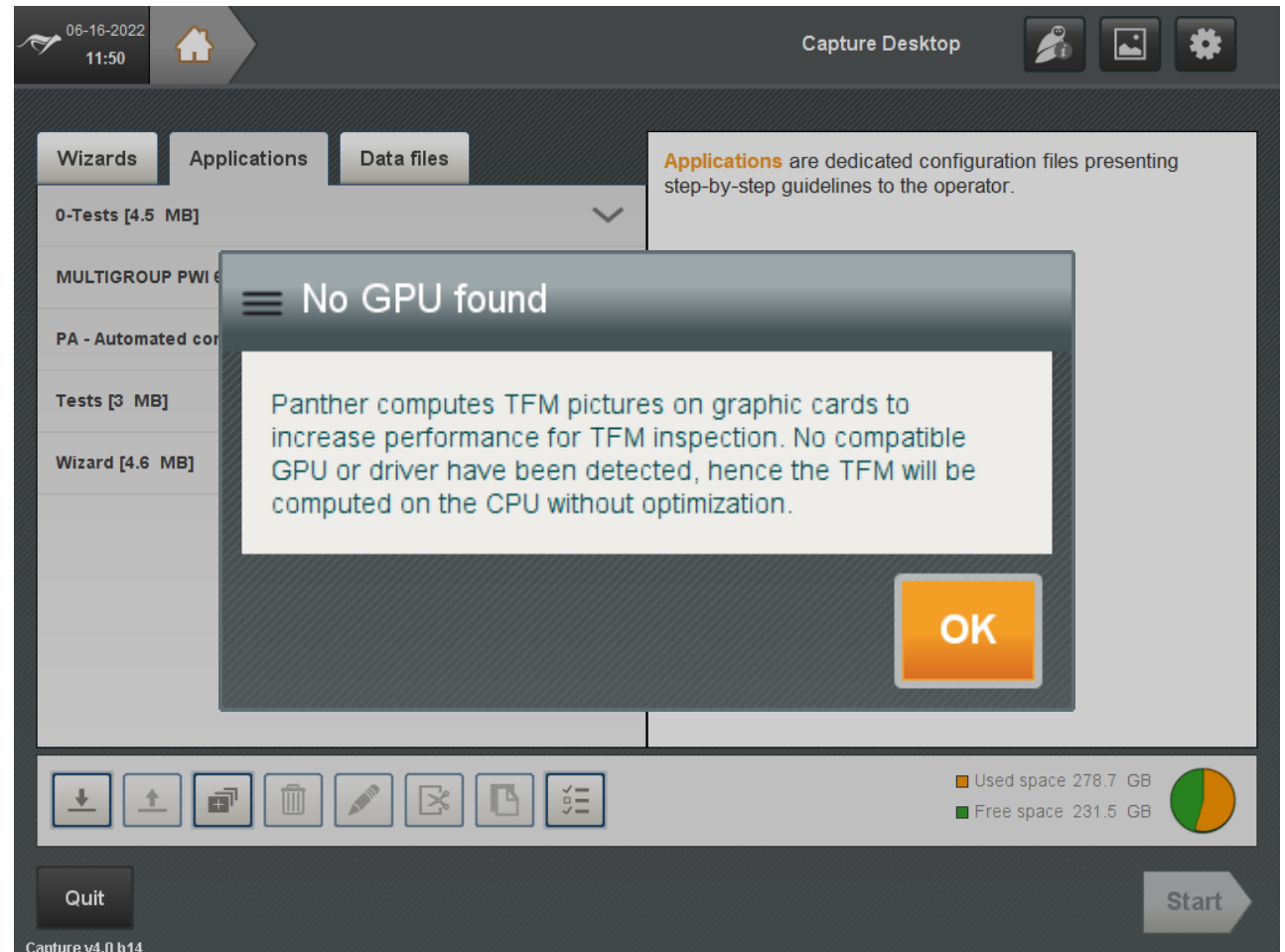
GPU settings

GPU NOT FOUND

TFM process of the FMC data acquired with the Panther is made on the Graphics Processing Unit (GPU) of the PC. That's why a pop-up window appears when compatible GPU is not found.

TFM wizard is still available and is computed on the CPU (even in simulation mode). **Be careful, lag or freeze may occur without GPU while using TFM.**

PA and conventional UT wizards do not require any GPU.

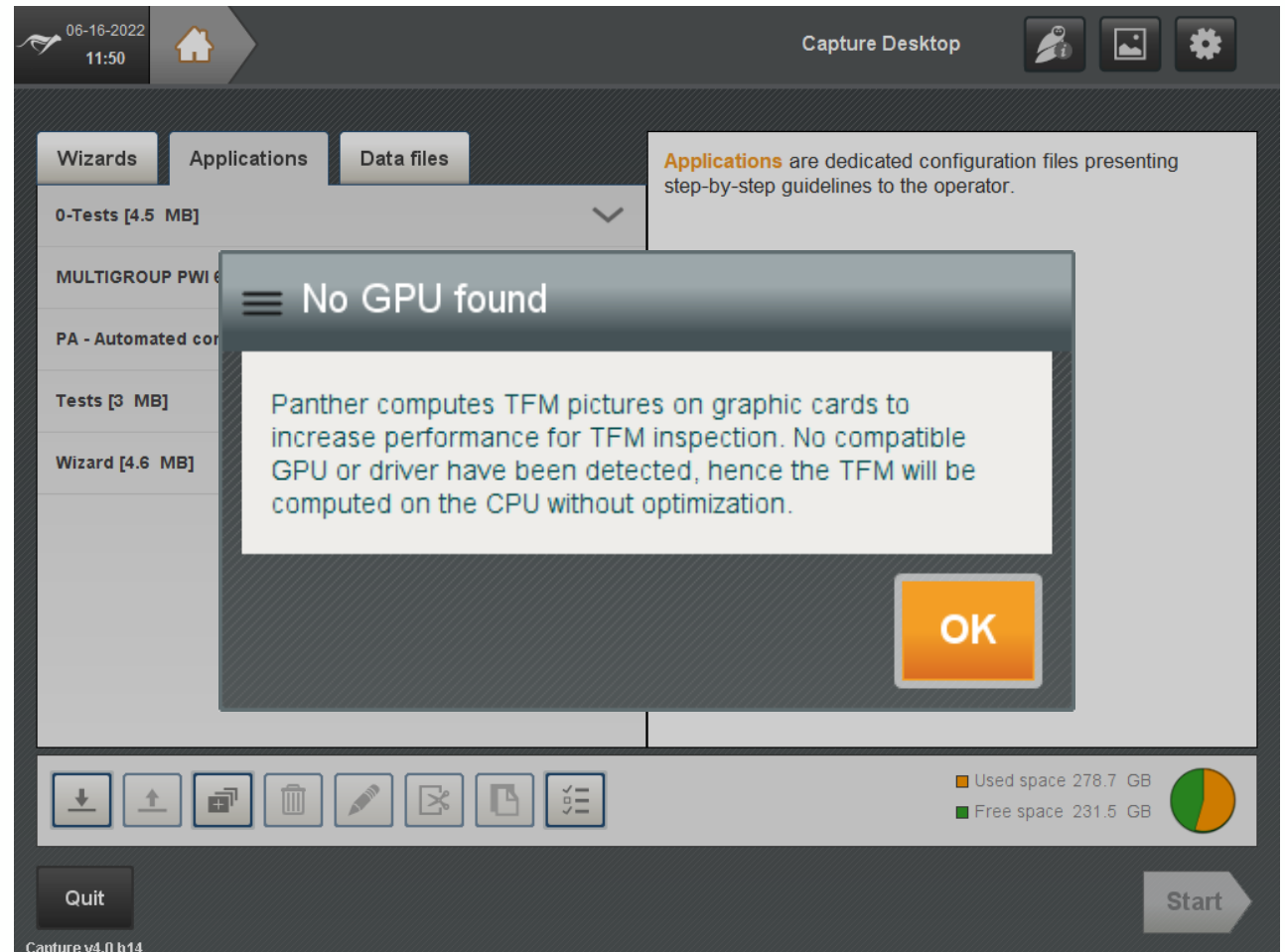


GPU settings

GPU NOT FOUND

If the PC runs currently compatible GPU (see [PC requirement section](#) for more details), the driver could have to be updated. For that, please refer to the manufacturer procedure [on his website](#).

Only the RTX 3080 or RTX A5000 GPU cards are compatible.



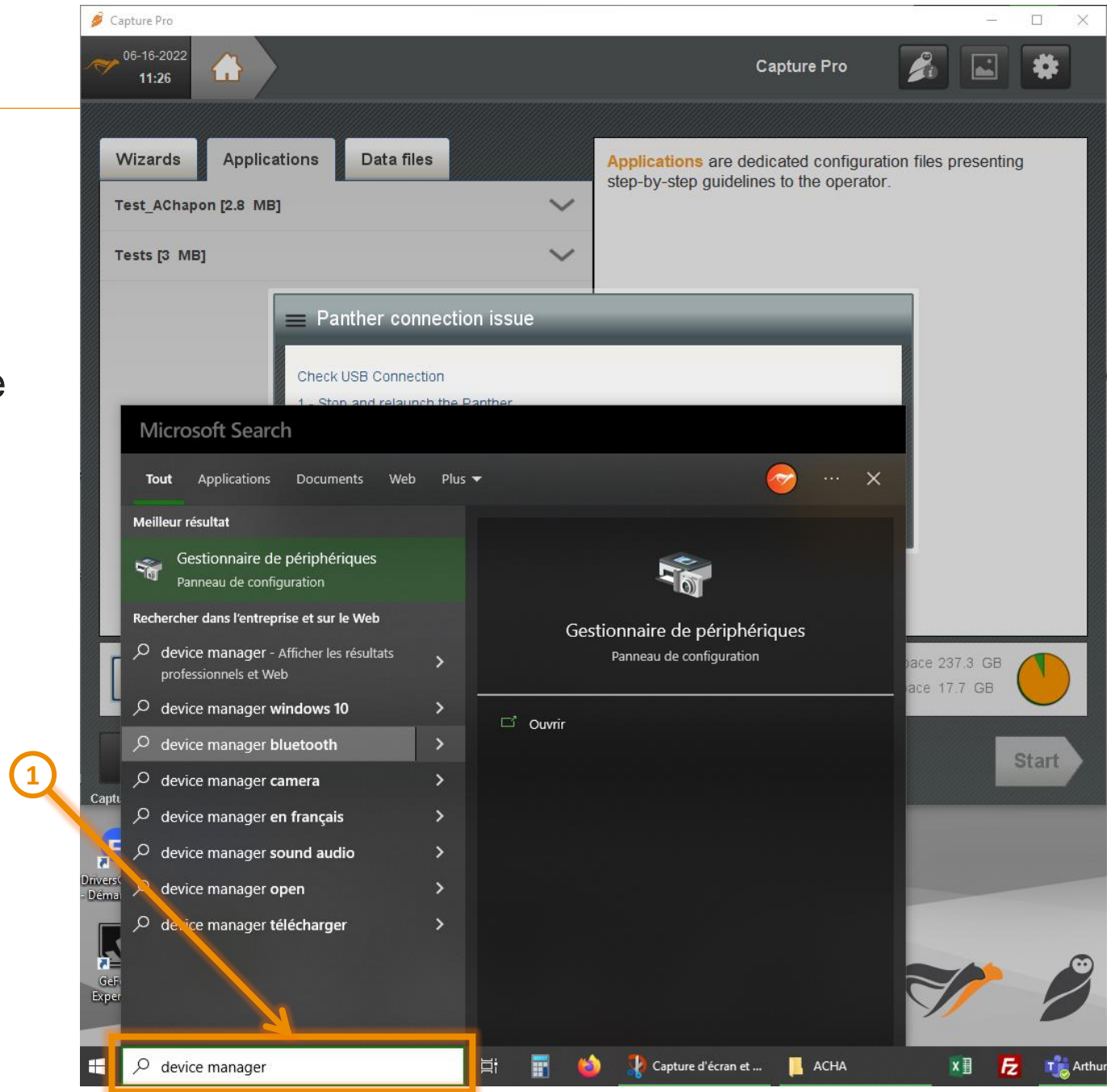
USB driver installation

USB driver install (1/3)

DEVICE MANAGER

The driver should be installed with Capture. IT security policies could block this step. In this case, please follow the procedure.

1. In the Windows search bar, enter “device manager” and open the assistant.

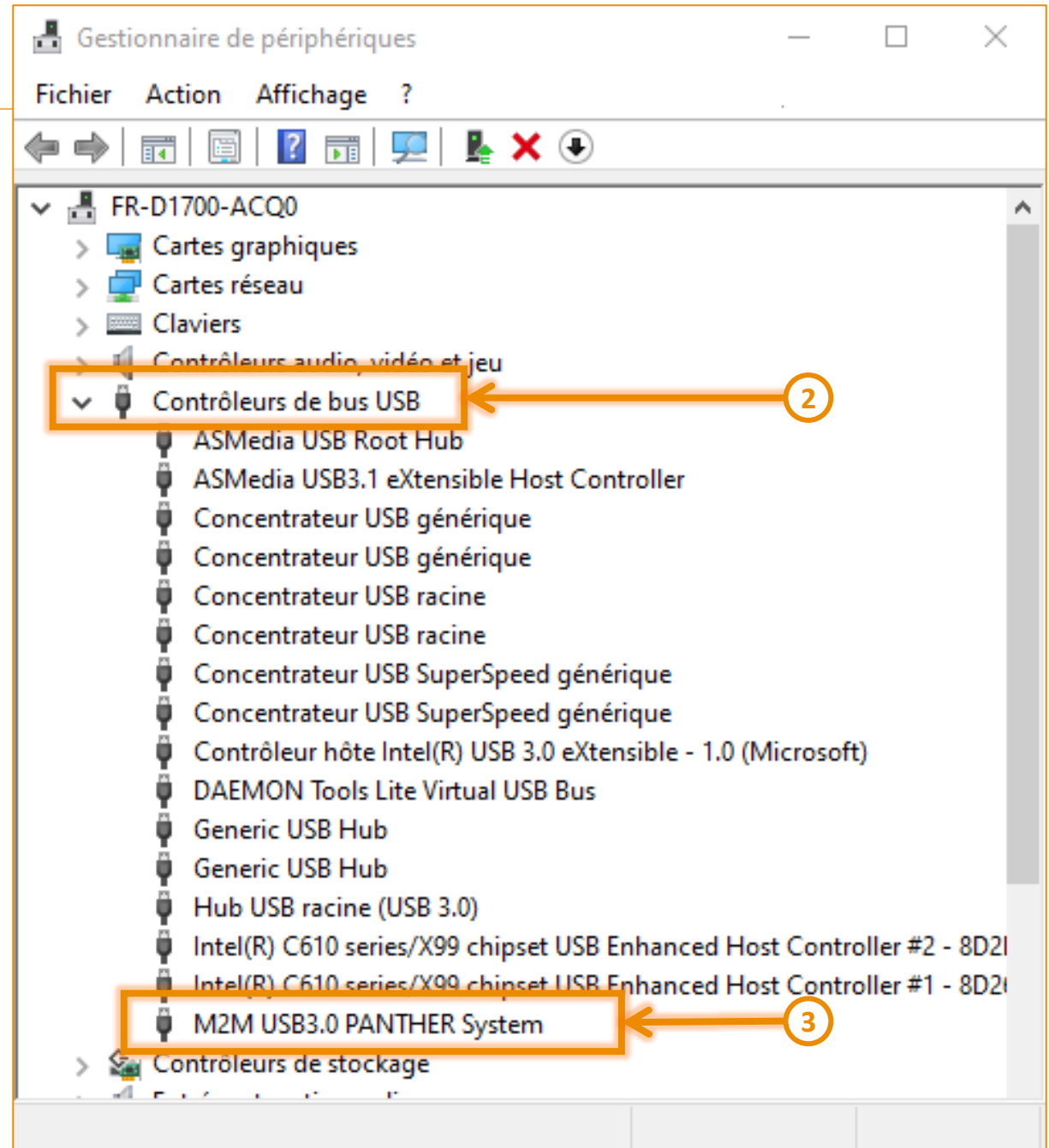
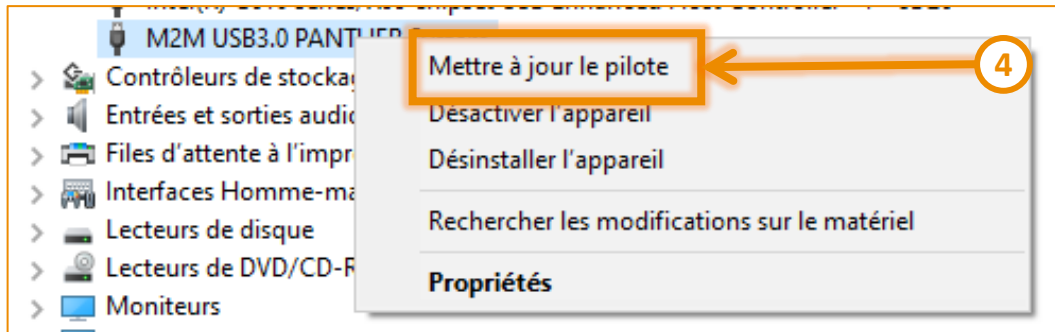


USB driver install (2/3)

M2M USB3.0 PANTHER SYSTEM

2. In the Device manager, find the line “USB bus controller” and open it.
3. Right click on the line “M2M USB3.0 Panther System”.
4. Select “Update the driver”.

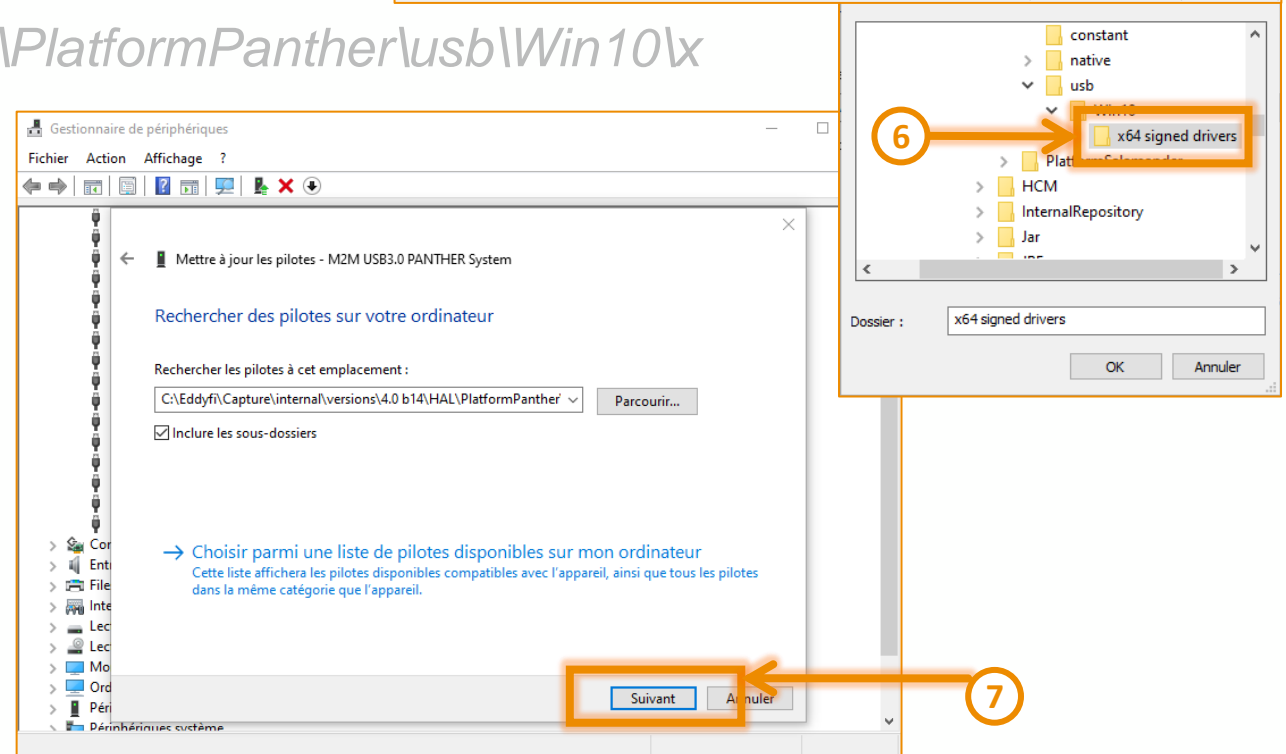
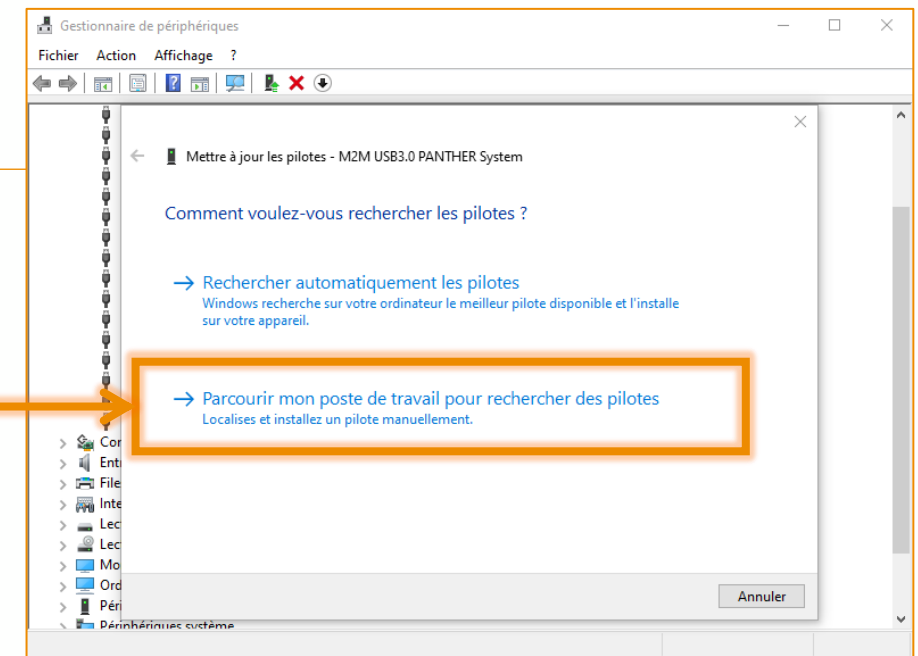
Another assistant appears.



USB driver install (3/3)

INSTALLATION

5. In the assistant, browse in your desktop to find the driver.
6. The driver can be found where Capture has been installed, here:
`\\Capture\internal\versions\4.0\HAL\PlatformPanther\usb\Win10\x64 signed drivers`
7. Press OK. Then Continue to install the driver.
8. Launch Capture



Licensing

Licensing

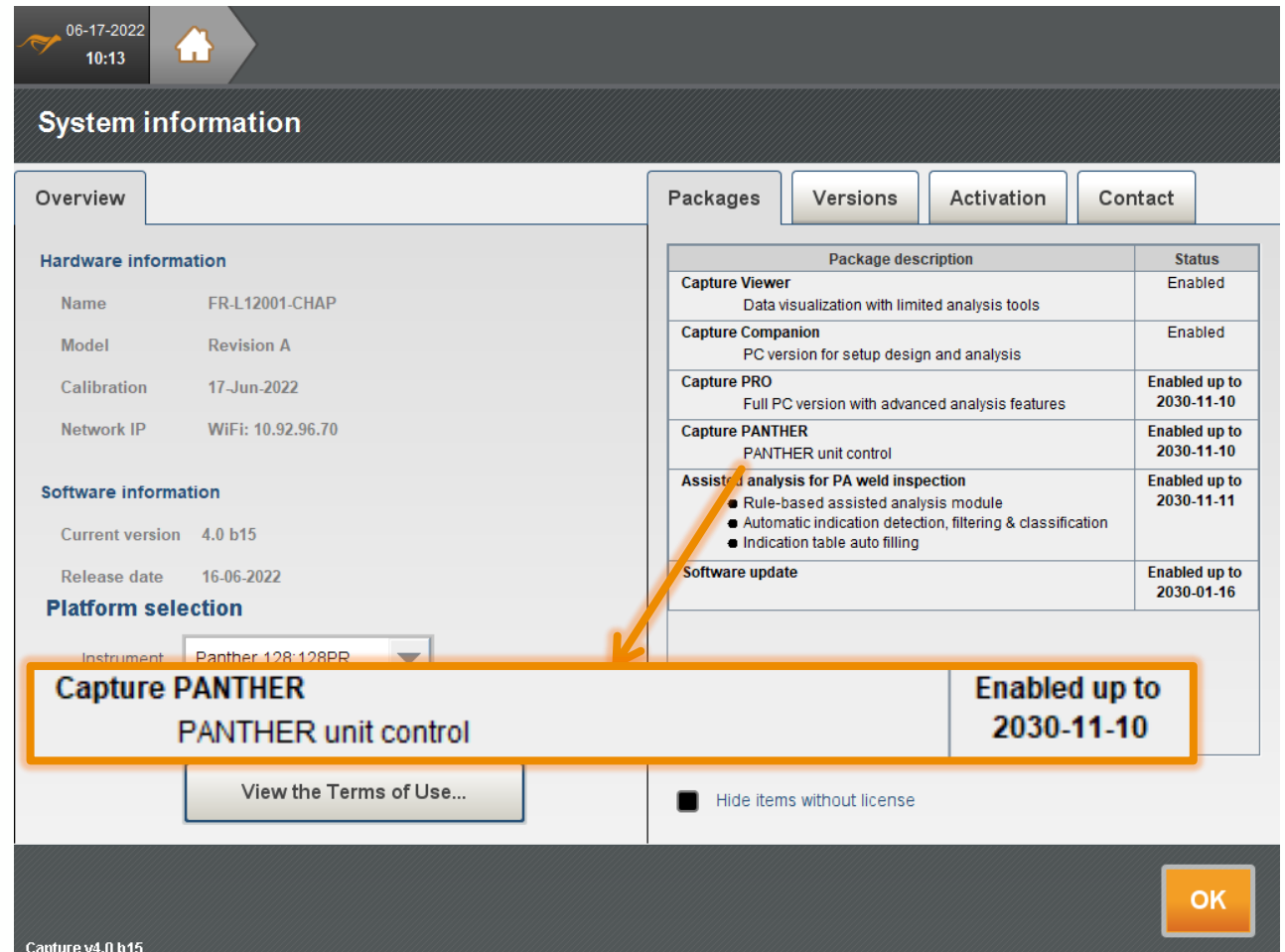
CAPTURE PANTHER FEATURE

The possibility to drive a Panther with Capture requires a specific license.

The presence of this feature can be checked in the System Information panel at the *Packages* tab.

If there is a doubt on the packages in this panel, please contact SalesTeam-m2m@eddyfi.com

This feature could be tried with the Trial.



06-17-2022 10:13

System information

Overview

Hardware information

Name	FR-L12001-CHAP
Model	Revision A
Calibration	17-Jun-2022
Network IP	WiFi: 10.92.96.70

Software information

Current version	4.0 b15
Release date	16-06-2022

Platform selection

Instrument: Panther 128-128PR

Packages | Versions | Activation | Contact

Package description	Status
Capture Viewer Data visualization with limited analysis tools	Enabled
Capture Companion PC version for setup design and analysis	Enabled
Capture PRO Full PC version with advanced analysis features	Enabled up to 2030-11-10
Capture PANTHER PANTHER unit control	Enabled up to 2030-11-10
Assisted analysis for PA weld inspection <ul style="list-style-type: none">● Rule-based assisted analysis module● Automatic indication detection, filtering & classification● Indication table auto filling	Enabled up to 2030-11-11
Software update	Enabled up to 2030-01-16

Capture PANTHER
PANTHER unit control

Enabled up to 2030-11-10

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OK

Capture v4.0 b15

NB: the activation code can be released from the tab *Activation* then *Manage*. It allows the change of PC.

PC requirements

PC requirements

PC REQUIREMENTS ACCORDING TO THE USAGE

Drive a PANTHER unit with Capture PRO-PANTHER	Use Capture PRO-PANTHER for set-up design and analysis
<ul style="list-style-type: none">• <u>OS</u>: Windows 10 (64bits)<ul style="list-style-type: none">⚠ Not tested with Windows 11• <u>CPU</u>: Intel Core i9• <u>RAM</u>: 32GB, 2x16GB, DDR4, 3200MHz• <u>Disk</u>: SSD, 1To, NVMe• <u>GPU</u>: NVIDIA GeForce RTX 3080 or RTX A5000 / 16 GB GDDR6• <u>USB</u>: USB-A 3.0 (equivalent to USB-A 3.2 Gen 1)• <u>Optic fiber/Ethernet</u>:<ul style="list-style-type: none">○ If laptop : USB-C 3.2 Thunderbolt 4.0.○ If desktop : Slot PCIe x8	<ul style="list-style-type: none">• <u>OS</u>: Windows 10 (64bits)<ul style="list-style-type: none">⚠ Not tested with Windows 11• <u>CPU</u>: Quad-core CPU, 2GHz• <u>RAM</u>: 8GB• <u>Disk</u>: SSD with 4GB free space• <u>GPU</u>: no dedicated GPU required• <u>USB</u>: USB-A 3.0

