

PANTHER 2®



Getting Started

Rev A-03



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Registre des versions			
Version Description By Date		Date	
A-01	Original version	VFO	2022-12-10
A-02	Complete set-up instructions	тсо	2023-05-31



1.PACKAGE CONTENT



PANTHER



Power supplier



USB 3.0 cable 3m



MOLEX to LEMO (scanner) cable adaptor



Optic fiber* 30mcable*



Documents (Measurement report, Warranty, Getting started guide and Warnings)



* Optional



2.INTENDED USE

The Panther is designed to perform ultrasonic non-destructive inspections of industrial and commercial materials.

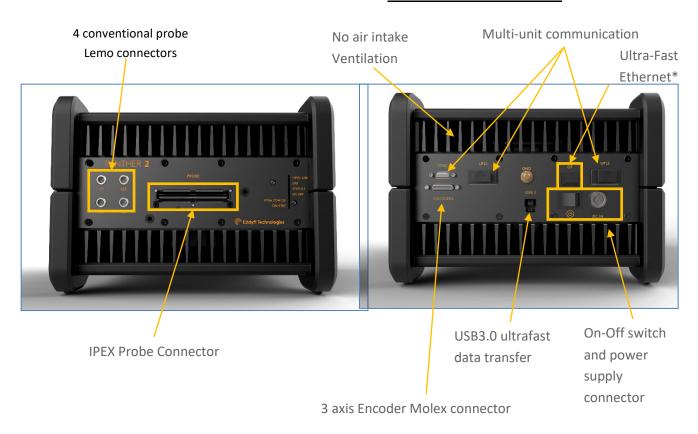
Do not use the Panther for any purpose other than its intended use.

Panther can manage all the conventional, phased array modes and Total Focusing Method (TFM).

3.CONNECTIONS

FRONT PANEL CONNECTORS

REAR PANEL CONNECTORS



* Optional

Connect the Panther to the external DC power supply that is connected to an appropriate AC power source.

To turn ON the Panther, switch the ON-OFF button. The internal fans will turn on.

To turn OFF the Panther, switch the ON-OFF button. The internal fans will turn off.



4.GLOBAL WARNINGS



Do not use the device for purposes other than those for which it was designed.

Do not inspect parts of the human body or animal body with PANTHER systems.

The use of non-compatible devices can cause device failure.

To avoid personal injury or property damage, do not disassemble, modify or attempt to repair the unit.

Carefully read the instructions in the user's manual before turning the unit on.

Obey all safety warnings on the unit and those contained in the User Manual.

Do not install substitute parts or do not make modifications not allowed on the device.

Repair instructions, if any, are for qualified technical staff. Do not attempt to service this product unless you are qualified to do so to avoid the risk of electric shock. If you have any problems or questions regarding this product, please contact EDDYFI TECHNOLOGIES or an authorized representative of EDDYFI TECHNOLOGIES.

Before turning on power, connect the ground of the device to the protective conductor of the power cord. The plug must be inserted only into an AC mains socket outlet with ground contact. You should never cancel function protection using an extension cord (power cable) without a protective conductor (grounding).

When the protective grounding seems damaged, you must power down the unit and prevent unintentional operation.

The device must only be connected to a power source of the type described in the annex below.

Prior to trash PANTHER system, make sure to comply with local laws.

In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), this symbol indicates that this product should not be disposed of with other household waste but should be collected separately. Please contact your local EDDYFI TECHNOLOGIES representative for instructions on how to take this product back, or to find out about collection facilities in your country.

The probes connected to the PANTHER must be equipped with reinforced insulation.

Avoid touching the inner conductor of I-PEX and LEMO connectors to reduce the risk of electric shock. The tension of the inner conductor of UT connectors can reach 160V and the voltage of the inner conductor PA connector can reach 160 V.

To completely disable the system, unplug the AC adaptor.



5. REGULATORY COMPLIANCE

FCC Compliance (USA)

This equipment was tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case you will be required to correct the interference at your own expense.

IC Compliance (Canada)

This device complies with Canadian ICES-001(A).

Cet appareil est conforme à la norme NMB-001(A) du Canada.

CE Marking (EU)

Hereby, Eddyfi Technologies declares that the PANTHER equipment complies to the essential requirements of the following directives:

- Electro Magnetic Compatibility (EMC, 2014/30/EU)
- Low Voltage (LVD, 2014/35/EU)
- Restriction of Hazardous Substance (RoHS, 2011/65/EU, 2015/863/EU and 2017/2102)

Please find the full EU Declaration of Conformity on the Eddyfi Technologies website (www.eddyfitechnologies.com).

UKCA Marking (UK)

Hereby, Eddyfi Technologies declares that the PANTHER equipment is in compliance to the essential requirements of Statutory Instruments:

- Electro Magnetic Compatibility (S.I. 2016 No. 1091)
- Electrical Equipment Safety (S.I. 2016 No. 1101)
- Restriction of Hazardous Substances
 (RoHS, S.I. 2012 No. 3032 and S.I. 2021 No. 422)

Please find the full UKCA Declaration of Conformity on the Eddyfi Technologies website (www.eddyfitechnologies.com).

WEEE Compliance (Waste)



This marking acts as a reminder that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling in accordance with the local regulations applicable to Waste Electrical and Electronic Equipment (WEEE).



6. SUGGESTED COMPUTER - LAPTOP

To benefit from the high throughput that the PANTHER can deliver, here are the 2 minimum suggested configurations:

LAPTOP Configuration – for USB use

Intel Core i9-11950H (8 Core, 24MB Cache, 2.60GHz to 5.00GHz, 45W, vPro)

Monitor 17.3" IPS FHD, 1920x1080, 60Hz.

32Go, 2x16Go, DDR4

SSD 512 Go, PCle x4 NVMe Gen 3

SSD 1 To, PCle x4 NVMe Gen 3

Battery, 95 Wh

NVIDIA GeForce RTX 3080 (ou RTX A5000) w/16 GB GDDR6

240W Power Adapter

Wireless Intel Wi-Fi 6E AX210 with Bluetooth 5.2

Keyboard & Touch PAD

Software

Windows 10 Professional, 64 bits

To use the PANTHER with Ultra-Fast Ethernet 10 Gbit, add the following Eddyfi items

Ultra-Fast Ethernet USB-C converter = UFastEtherThunderBModule

+ Optic Fiber or RJ45 Copper cable option

Optic Fiber

x2 Ultra-Fast Ethernet module Optic fiber = x2 UFastEtherModule-OF

Optic Fiber cable = CAB-UFastEther-OF-10m or CAB-UFastEther-OF-50m or

CAB-UFastEther-OF-100m

RJ45 with copper cable

x2 Ultra-Fast Ethernet module = x2 UFastEtherModule-RJ RJ45 copper cable = CAB-UFastEther-RJ45-3m

or CAB-UFastEther-RJ45-7.5m or CAB-UFastEther-RJ45-20m



Optic fiber cable



RJ45 cable



Ultra-Fast Ethernet - USB-C Converter





RJ45 module (2 required)



7. SUGGESTED COMPUTER - DESKTOP

To benefit from the high throughput that the PANTHER can deliver, here are the 2 minimum suggested configurations:

DESKTOP CONFIGURATION – for USB use

Intel® Core™ i9-10900X (19.25 MB cache, 10 cores, 20 threads, 3.70 GHz to 4.70 GHz Turbo, 165)

Monitor 23" FHD, 1920x1080, 60Hz

32Go, 2x16Go, DDR4

SSD 512 GB, PCIe NVMe

SSD 1 TB, PCIe NVMe

NVIDIA GeForce RTX 3080

Tower 950W Chassis, with USB3.0 and Ethernet 1 Gbit

Keyboard & Mouse

Software

Windows 10 Professional, 64 bits

To use the PANTHER with Ultra-Fast Ethernet 10 Gbit, add the following Eddyfi items

Ultra-Fast Ethernet UPCIe board = UFastEtherPCIModule

+ Optic Fiber or RJ45 Copper cable option

Optic Fiber

x2 Ultra-Fast Ethernet module Optic fiber = x2 UFastEtherModule-OF – Quantity = 2

Optic Fiber cable = CAB-UFastEther-OF-10m or CAB-UFastEther-OF-50m or

CAB-UFastEther-OF-100m

RJ45 with copper cable

x2 Ultra-Fast Ethernet module = UFastEtherModule-RJ45 – Quantity = 2

RJ45 copper cable = CAB-UFastEther-RJ45-3m

or CAB-UFastEther-RJ45-7.5m or CAB-UFastEther-RJ45-20m



Optic fiber cable



RJ45 cable



Ultra-Fast Ethernet – USB-C Converter



Optic Fiber module



RJ45 module (2 required)



8. COMPUTER SETTINGS

The computer can be used with a USB3 connection.

It can also be used with a 10-Gbit Ethernet connection. To set up your computer, follow the procedure described in the <u>annex</u> at the end of this document.

9. ACQUIRE SOFTWARE

Acquire is the PANTHER operating software dedicated to conventional UT, TOFD, Phased-Array, TFM settings and acquisition.

LAUNCHING ACQUIRE

If a computer has been delivered by Eddyfi with your Panther system, ACQUIRE can be accessed from the Acquire Icon located on the windows desktop icon or by double clicking on the C:/Acquire/Go Acquire US.bat

INSTALLING ACQUIRE

If no computer has been delivered with your Panther system, please download Acquire from the support

Acquire

section (see https://www.eddyfi.com/en in the documentation section.

). Please check the installation guide for Eddyfi Panther

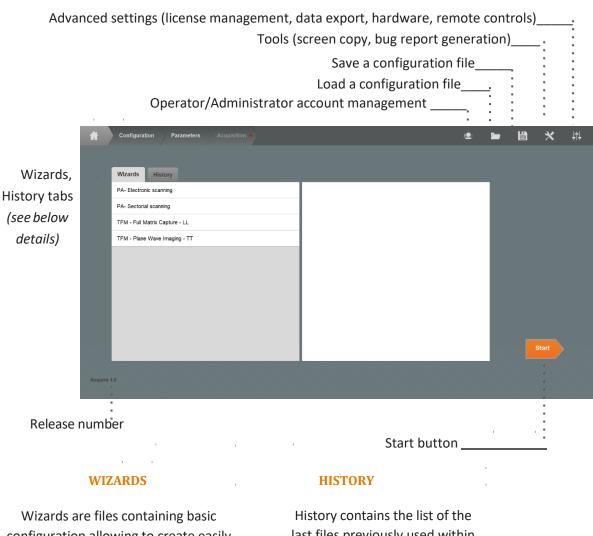
LAUNCHING ACQUIRE IN SIMULATION MODE

Acquire software can be launched in simulation mode (i.e. without the Panther hardware connected) by double-clicking on C:/Acquire/Go_Acquire_ Simulation.bat



10. ACQUIRE QUICK START

HOME PANEL



Wizards are files containing basic configuration allowing to create easily and inspection setup.

History contains the list of the last files previously used within Acquire.



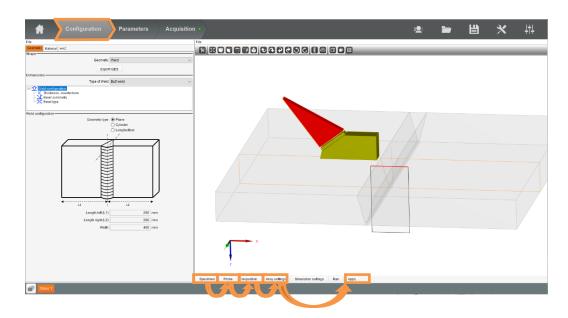
CONFIGURATION PANEL

CONFIGURATION PANEL

The configuration panel allows to setup a configuration (conventional PE, TOFD, Phased Array, TFM...).

It is based on the CIVA simulation software, the full CIVA manual can be accessed by **pressing F1**.

The configuration should be entered as carefully as possible as most of the imaging system of Acquire is using the CIVA configuration.



Basically, a CIVA configuration is setup by clicking successively on the Specimen, Probe, Inspection, Array Settings panels. The phased array or TFM modes (Linear Scanning, Sector Scan, Pitch-Catch, FMC/TFM, PWI/TFM....) are defined in the Array settings panel.

Once the configuration is managed, the phased array modes are applied by clicking on the Apply button.

Beam simulation can be carried out and visualised thanks to the Simulation settings and Run buttons.



11. SPECIFICATIONS

ENVIRONMENT		
Size (L x W x H)	298mm x 220mm x 159mm (11.73 in x 8.66 in x 6.25 in)	
Weight	6,6 Kg (14,5 lbs)	
Power supply	External AC/DC power supply: 240V/50Hz - 110V/60Hz 0.75A - 1.5A Instrument: 24 VDC 3.75 A	
IP rating	IP20 (IP54 with accessory)	
Operating temperature	0 to 45°C (32 to 113°F)	
Storage temperature	-20 to 70°C (-4 to 158°F)	
Max altitude	2000 m	
Indoor/Outdoor use	Indoor only	
Maximum relative humidity	90% condensing	
Pollution degree	2	

CONNECTIVITY	
Phased-Array IPEX (x1) – up to 128 channels	
UT-TOFD	LEMO-00 (x4)
Encoder Input*	MicroD25 connector Up to 3 Quadrature or clock/dir 5MHz max
Synchro Input/Output*	Internal use only
USB3	Up to 3 Gbits/sec
Ethernet/Optic fiber*	Up to 10 Gbits/Sec

^{*} Depending on the configuration and options



AVAILABLE CONFIGURATIONS	
1 PANTHER	32:128PR 64:64PR 64:128PR 128:128PR
2 PANTHER	64:256PR 128:256PR 256:256PR

P h a s e d - A r r a y		
Pulser		
Number of channels	Up to 128	
Pulse type	Bipolar square pulse	
Amplitude	From 20 to 100V	
Pulse width	Pulse width from 20 to 2000 ns False time < 6 ns	
Receiver		
Number of channels	Up to 128	
Input impedance	50Ω	
Frequency range	Frequency range 0.3 to 20MHz	
Max. input signal	2 Vpp	
Gain	0 to 120 dB – 0.1dB step	
Active aperture	Up to 128 elements	
Compliant with EN ISO 18563-1		



12. LOCAL REPRESENTATIVE

Eddyfi Europe SAS

21 Av. du Québec

91140 Villebon-sur-Yvette

Tel: +33 160 923 965

https://eddyfi.com/en

Eddyfi UK Ltd.

Clos Llyn Cwm

Swansea Enterprise Park

Swansea SA6 8QY

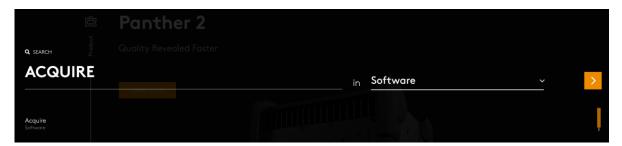
Tel: +44 1792 798711

https://eddyfi.com/en

DOWNLOAD PLATFORM

The Eddyfi Technologies support website gives access to the last software versions of ACQUIRE and CAPTURE, documentation, procedures.

With the search tool, search for 'Acquire' in 'Software'.



SUPPORT

To share feedback, remarks, or problems, do not hesitate to contact us at support@eddyfi.com.

In case of ACQUIRE or CAPTURE crash, please report us as many details as possible such as application files, inspection files, screenshot and bug reports generated with the following bug report tool:





ANNEX 1 - 10-Gbit Ultra-Fast Ethernet CONFIGURATION

This procedure is intended to provide instructions to configure a computer and use the PANTHER 2 with a 10-Gbit Ethernet connection.

This procedure is an example with a specific PC configuration, as described below.

Computer configuration.

- Computer:

Nom	Modèle	Distributeur
Laptop Qwerty	DELL Mobile Precision Workstation 7760 CTO -	DELL
	Qwerty	
Laptop Azerty	DELL Mobile Precision Workstation 7760 CTO -	DELL
	Azerty	
Desktop	Tour Dell Precision 5820 XCTO	DELL

Accessories:

Nom	Modèle	Distributeur
Adaptateur Ethernet 10 Gb SFP+	SOLO10G-SFP-TB3	SONNET
Solo10G Thunderbolt (SFP+ SR inclus)		
Carte PCle Presto SFP+ 10Gb Ethernet à	G10E-SFP-2XA-E2	SONNET
2 ports (SFP+ non inclus)		

- Connector:

Nom	Modèle	Distributeur
Transmetteur SFP+ 10GBASE-T - RJ45	G10E-SFP-T	SONNET
Cuivre (30m)		
Transmetteur SFP+ 10GBASE-SR Short	G10E-SFP-SR	SONNET
Range (300m)		



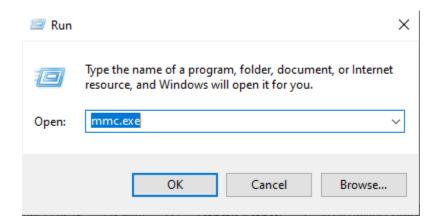
Settings

The following instructions here below describe the minimum parameters that must be set up to properly configure the computer.

Please follow these instructions.

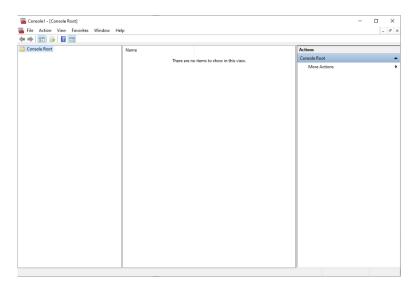
1. Authorization to enable UDP ports with PANTHER EVO

Launch the Run window (Win + R). Execute the mmcc.exe into it.



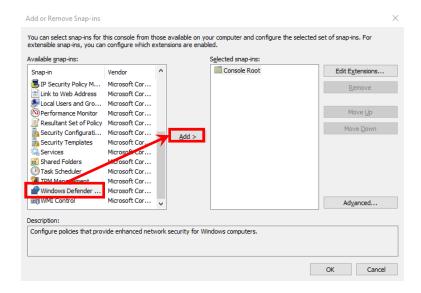


This window appears.



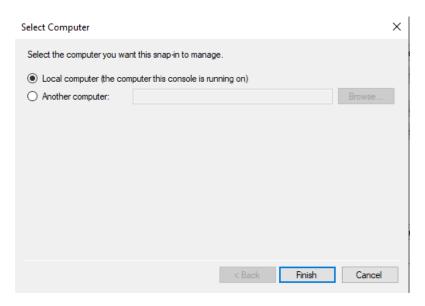
Please click on the Ctrl + M button on your keyboard.

Select "Windows Defender...", click on the "Add" button.

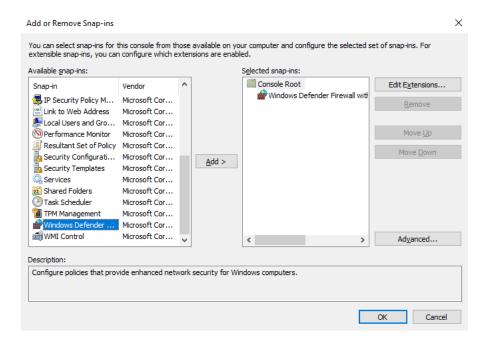




This window appears, click on the "Finish" button.



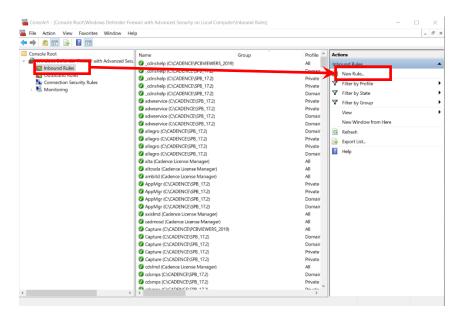
Then, click on the "Ok" button.



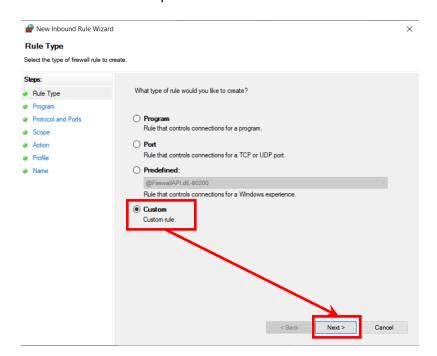


Open the tab "Windows Defender firewall..."

Click on "Inbound Rules" and select "New Rules".

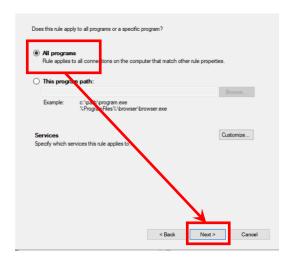


Choose the "Custom" option.

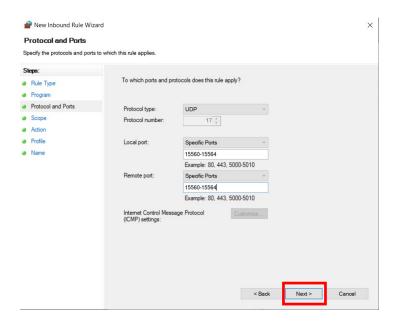




Select "All programs".



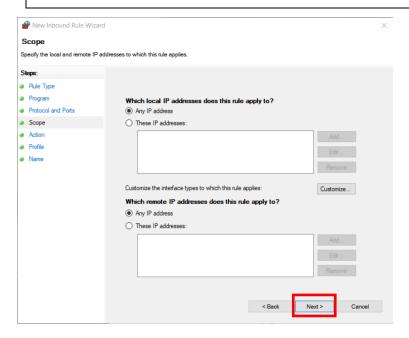
Fill in the parameters as shown in the picture below:



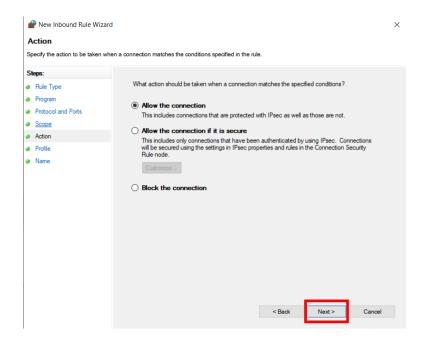
Click on "Next" button.

Click on "Next" button.



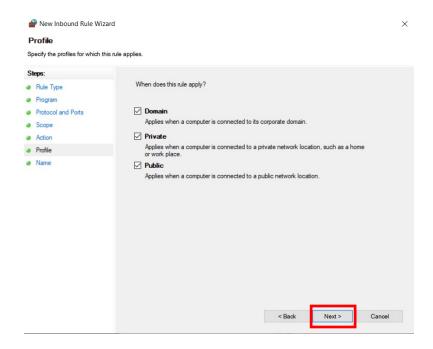


Click on "Next" button.

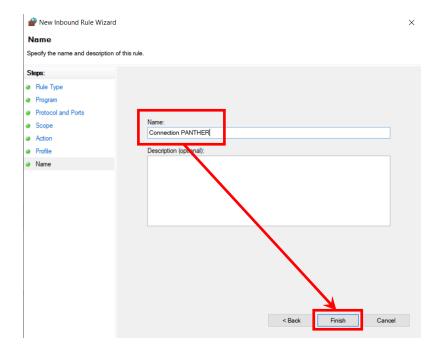




Click on "Next" button.



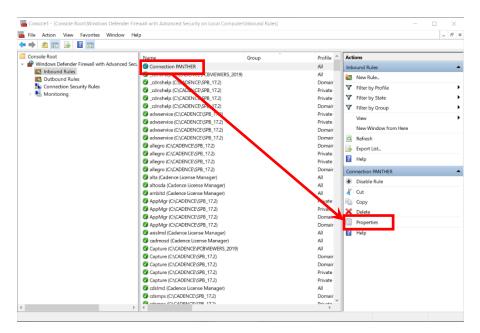
Give a name to the new rules; example: "Connection PANTHER" and click on "Finish" button.



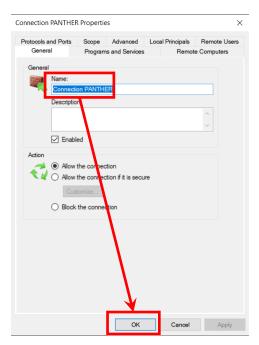


Option:

If you want to change the name of the rules, you can click on the properties button of the rules.



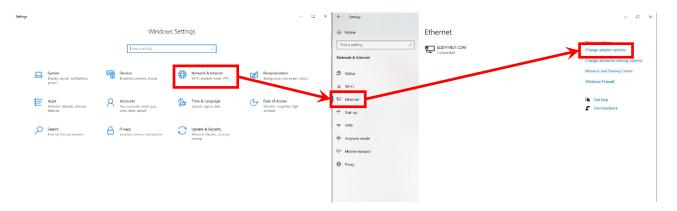
Change the name in the "General" tab, then click on the "Ok".



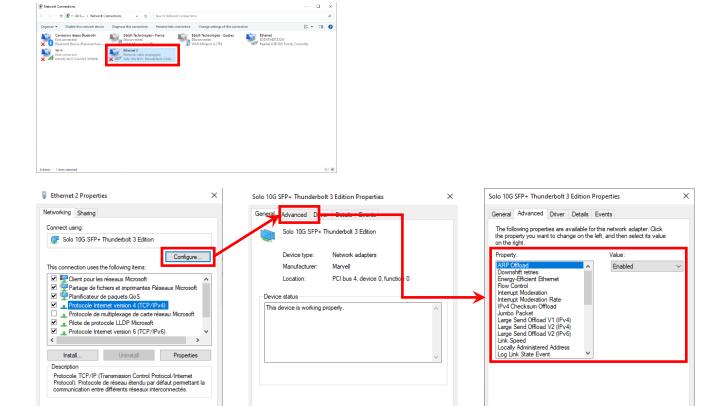
2. Configuration

Click on the Windows startup icon, then on the settings button (gear wheel).

Please follow the instructions below:



Right click on "Solo 10G SFP+ Thunderbolt Edition" and select "Properties".



Please find below a tab with all the parameters:

Close Cancel

OK Cancel

OK Cancel



Directly on the computer, set only the following items.

Property	Value
Flow Control	Rx & Tx Enabled
Interrupt Moderation	Enabled
Interrupt Moderation Rate	Adaptive
IPsec Offload	Auth Header & ESP Enabled
IPv4 Checksum Offload	Rx & Tx Enabled
Jumbo Packet	9014 Bytes
Large Send Offload V2 (IPv4)	Enabled
Large Send Offload V2 (IPv6)	Enabled
Locally Administered Address	Not Present
Log Link State Event	Enabled
Maximum Number of RSS Queues	8 Queues
Priority & VLAN	Packet Priority Enabled
Receive Buffers	4096
Receive Side Scaling	Enabled
Speed & Duplex	10 Gbit/s Full Duplex
TCP Checksum Offload (IPv4)	Disabled
TCP Checksum Offload (IPv6)	Disabled
Transmit Buffers	Max value (4096, 8184, 16384,)
UDP Checksum Offload (IPv4)	Rx & Tx Enabled
UDP Checksum Offload (IPv6)	Rx & Tx Enabled

Computer with Adaptor SFP/USBC, set only the following items.

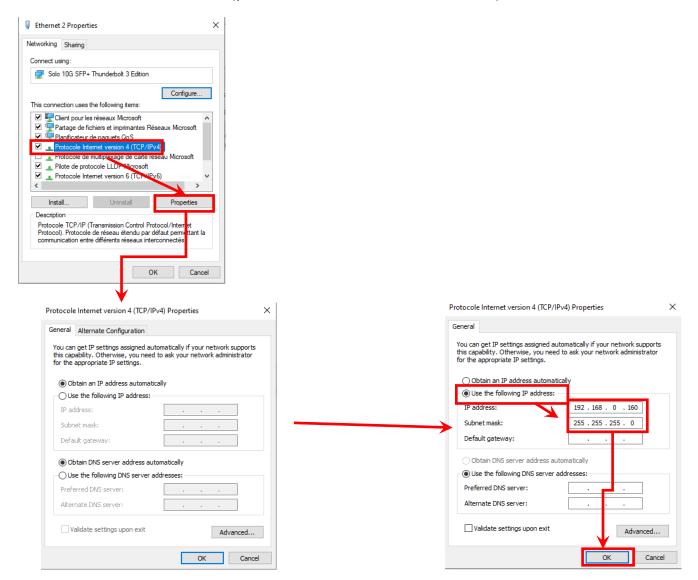
Property	Value
Flow Control	Rx & Tx Enabled
Interrupt Moderation	Enabled
Interrupt Moderation Rate	Adaptive
IPv4 Checksum Offload	Rx & Tx Enabled
Jumbo Packet	9014 Bytes
Large Send Offload V2 (IPv4)	Enabled
Large Send Offload V2 (IPv6)	Enabled
Link Speed	10G
Locally Administered Address	Not Present
Log Link State Event	Enabled
Maximum Number of RSS Queues	8 Queues
Priority & VLAN	Packet Priority Enabled
Receive Buffers	4096
Receive Side Scaling	Enabled
TCP/UDP Checksum Offload (IPv4)	Rx & Tx Enabled
TCP/UDP Checksum Offload (IPv6)	Rx & Tx Enabled
Transmit Buffers	Max Value (4096, 8184, 16384,)



3. Parameters for the Ethernet IP address

You need to set an address IP on the port SFP 10G.

Please follow the instruction below (you must set the address IP: 192.168.0.160):





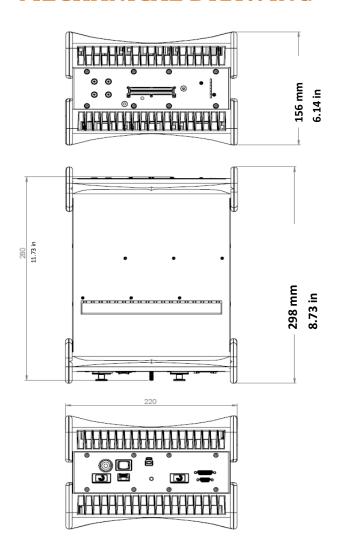
If you have several ports on your computer, please repeat the procedure (from point 2) for each port.

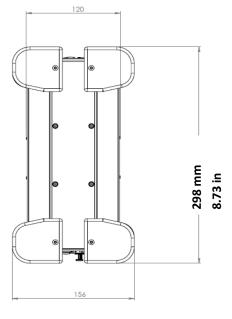
Set the IP addresses as follow:

- 192.168.0.161
- 192.168.0.162
- 192.168.0.163
- 192.168.0.164



ANNEX 2 - MECHANICAL DRAWING







ANNEX 3 - CONNECTOR INFORMATION

1. PHASED ARRAY CONNECTOR

Connector Location



Connector Information

Supplier: I-PEX

Reference: 30046-160T-F

Connector function

- Plug Phased-array IPEX probes
- · Connect probe splitters or probe adaptors
- Compatible with IPEX easy-latch adaptor frame: IMP_0061-EASYLATCH-ADAPT

Matching Connector

Supplier: I-PEX

References:

straight: 30056-160T-Fright angle: 30047-160T-04F

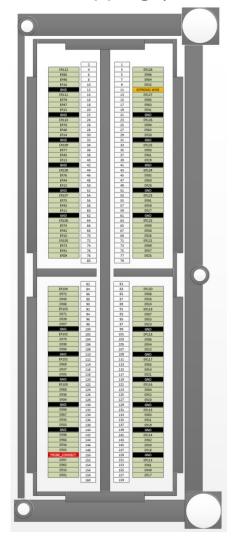




For electric safety reasons, only accessories approved by Eddyfi Technologies can be used with Panther systems. Before purchasing any probe, please contact us.



Connector Mapping (female side)



Connector Signal Description

Signal Name	Description	User matching signal
ER1 to ER128	Phased-array channel number 1 to 128	Phased-array probe channel 1 to 128*
GND	Ground pin	For better ultrasound result, all GND pin have to be connected to probe ground.



2. UT CONNECTORS

Connectors Location



Connector Information

Supplier: LEMO

Reference: ERN.00.250.CTL

Matching Connector

UT connector is NimCAMAC standard.

Supplier: LEMO

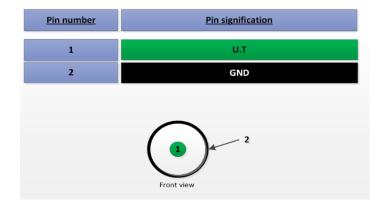
Reference: FFA.00.250.CTAC31

Connector function

4 P/R LEMO allowing to use:

- 4 conventional UT probe in pulse-echo mode
- 2 pairs of TOFD or 2 Dual element probes

Connector Mapping (female side)





For electric safety reasons, only accessories approved by EDDYFI can be used with Panther systems. Before purchasing any probe, please contact us.



3. ENCODER CONNECTOR

Connector Location



Connector Information

Supplier: GLENAIR

Reference: 654-M83513/01-DC

Matching Cable (male)

Supplier: MOLEX

Reference: 8



Description	Value	Internal 330 Ω
Maximum admissible input	20 mA.	8 V
current		
Recommended "ON" value	10 mA	4.8 V
Minimum "ON" value	5 mA	3.1 V (V+ - V-)
Maximum "OFF" value	250 μΑ	1,45 V
Maximum reverse value	-20 mA	8 V
Maximum Frequency	5 MHz	Recommended
		400KHz max

Connector function

· CONNECT OF TO 3 DIFFERENT ENCODERS:

- 5V optocoupled*
- quadrature mode or clock/dir mode
- Number of available encoders: 2 or 3 depending on software setup and option.
- Encoder 3 can be used to reset encoder 1 and 2

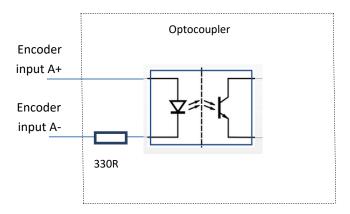
optocoupled*: A photoelectric diode transfers the encoder signal. This protects the Panther system from too high voltage or two high intensity or ground noise. Common mode max = 50V



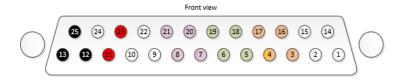
Connector Mapping



Encoder Input



Connector (female side)



Signal Name	Description	User matching signal
Encoder Phase A/B	5V optocoupled	Absolute Max current 20 mAMax frequency = 5MHz



4. SYNCHRO CONNECTOR

Connector Location



Connector Information

Supplier: MOLEX

Reference: 836129024

Matching Cable

Supplier: MOLEX

Reference: 0834229007

EDDYFI Reference: CAB_0115-SYNC-PANTHER-256

Connector function

- This connector is used to synchronize two PANTHERs either for:
 - Multi-system: 2x PANTHER XX:128Multi-module: 1x PANTHER XX:256
- This connector shall be not use for any other purpose.



5. I/O CONNECTORS (USB 3.0)

Connector Location



USB 3.0

Connector function

• The USB 3.0 is used to transfer data from the Panther to the computer running Acquire Software.

Connector description

USB

1x USB3.0: high-speed USB

Matching Cable

EDDYFI Reference:

- Cable 3m = CAB_0119_CABLE USB3 BLINDE 3m
- Cable 5m = CAB_0120_CABLE USB3 BLINDE 5m



Only high-quality USB cables must be used for proper operation.



6.POWER CONNECTOR

Connector Location



Connector function

- rins connector is the global system power supply.
- When plugged in, the external power supply is used to power on the system.
- Only use the external power supply supplied by EDDYFI with the PANTHER system.

Connector Information

Supplier: LEMO

Reference: EEG.0K.303.CLN

Matching Cable

Supplier: LEMO

Reference: FGG.0K.303.CLAC45Z

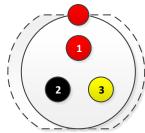
EDDYFI Reference: CAB_0098-POWER-PANTHER



Connector Mapping (female side)

Front view:

Pin number	Pin signification	/
1	+24V	
2	GND	2
3	GND (EARTH)	





When the power cable is plugged in, the position of the system should allow the plug to be easily unlocked. This is so that the unit can be switched off in case of emergency.

Description	Value
Minimum Voltage	16 V DC.
Maximum Voltage	30 V DC
Power max	90 W
Power typical	70 W

Protect the unit from EMC interference by using a ferrite on the power cable.

Use a regulated power supply.

Use the correct cable diameter for the current consumption.

Connect to earth and check the quality of the connection for the safety of the user and the correct functioning of the equipment. Input protected by internal fuse.



7. UFL CONNECTORS

Connector Location



Connector function

 These connectors allow the ultrafast communication between two systems to transfer elementary A-scan, in particular for 256:256 configuration.

Connector Information

Supplier: MOLEX

Reference: 1704650002

Matching Cable

Supplier: MOLEX

Reference: 1110251200

EDDYFI reference: CAB_0139-UFL-PANTHER



This connector is not rugged and designed for regular plug-unplug (certified 250 operations), it must be handled with care.



8. Ultra-Fast Ethernet, 10 Gbit CONNECTOR

Connector Location



Connector Function

Delivers 10 Gbit/sec up to 810 Mbytes/sec

Requires SFP+ module

- Optic Fiber
- RJ45





Connector Information

Supplier: SAMTEC

Reference:

Optic Fiber

UFastEtherModule-OF

RJ45

UFastEtherModule-RJ45



ANNEX 4 - Accessories

Accessory Name	Description	Picture
Easy-Latch EDDYFI ref: IMP_0061-EASYLATCH-ADAPT	This accessory allows the connection of a probe with an EASY_LATCH connector to PANTHER system.	
Hardware Dongle protection for « Acquire » software	This accessory is the protection dongle that allows the use of « Acquire » software on a computer. A software dongle can be also proposed.	



Accessory Name	Description	Picture
IPEX FRB Adaptor EDDYFI ref: ADAPT_IPEX_FRB_V2	This adaptor allows connection of a probe with an HYPERTRONICS (FRB) connector to the PANTHER system.	m2m ADAPT_IPEX_FRB_V2
Available splitter models : SPLITTER 1x64 -> 2x32 SPLITTER 1x128 -> 4x32 SPLITTER 1x128 -> 2x64 SPLITTER 1x64 -> 2x30 + 4 LEMO SPLITTER 1x128 -> 2x62 + 4 LEMO EDDYFI ref : CAB_0109-SPL-FRB128-4X32	The PANTHER channels are split between 2 different I-PEX connectors and LEMO-00 connectors (optional).	



Accessory Name	Description	Picture
Adaptor for LEMO16 connector scanners EDDYFI ref: CAB_0037-ENC-GEKKO-LEMO16	This cable allows connection of scanners with LEMO16 (MOLEX) encoder connector to PANTHER system, MicroD25	
Adaptor for SUBD15 connector scanners EDDYFI ref: CAB_0017_ENC-GEKKO-DE15	This cable allows connection of scanners with SUBD15 encoder type to PANTHER system, MicroD25	
Adaptor for SUBD25 connector scanners EDDYFI ref: CAB_0065-ENC-GEKKO-DE25	This cable allows connection of scanners with SUBD25 encoder type to PANTHER system, MicroD25	



Accessory Name	Description	Picture
Adaptor for SUBD25 connector scanners EDDYFI ref: CAB-UFastEther-RJ45-xxm	This cable allows connection of a PC or a switch/hub with Ultra-Fast Ethernet, RJ45 connector, to a PANTHER 2 with RJ45 module – 10 Gbit	
Optic Fiber cable EDDYFI ref: CAB-UFastEther-OF-xxm	This cable allows connection of a PC or a switch/hub with Ultra-Fast Ethernet, Optic Fiber connector, to a PANTHER 2 with Optic Fiber module – 10 Gbit	
Optic Fiber Ultra Fast Ethernet module EDDYFI ref: CAB-UFastEther-OF-xxm	This module is a transceiver that can be inserted in the PANTHER 2 or a PC module for a connection with Ultra-Fast Ethernet, Optic Fiber connector – 10 Gbit	
RJ45 Ultra Fast Ethernet module EDDYFI ref: UFastEtherModule-2RJ45	This module is a transceiver that can be inserted in the PANTHER 2 or a PC module for a connection with Ultra-Fast Ethernet, RJ45 connector – 10 Gbit	



Accessory Name	Description	Picture
PCI Express board EDDYFI ref : UFastEtherPCIModule	This module can be installed in a PC for a connection with Ultra-Fast Ethernet (10 Gbit). Does not the Optic Fiber or RJ45 module (to be added).	
Optic Fiber cable EDDYFI ref: UFastEtherThunderBModule	This module can be connected to a PC for a connection with Ultra-Fast Ethernet (10 Gbit) to a PANTHER 2. Does not the Optic Fiber or RJ45 module (to be added).	SOO NO.



