

Inspire Instrument Quick Start

FARO Laser Trackers

v.1.1.29.0 or higher





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Initial Configuration and Network Connection

Expected time to configure: 30 minutes to 1 hour.

- 1. Please navigate to Software Download of FARO Utilities for the Laser Tracker FARO® Knowledge Base and the Inspire Download Site to download the latest FARO Utilities for the Laser Tracker and the FARO JRE 64-bit files needed for the initial configuration. For this quick start guide, we will be using the FaroJRE64bit_5.1.9.4_ExtractToCroot.zip and the FARO Tracker Utilities 4.1.8.zip for the latest FARO Vantage S6 with the 6Probe Auto Detection probe tips but there are different versions available.
- 2. First, right-click on the FaroJRE64bit_5.1.9.4_ExtractToCroot.zip and extract it to the root of your C:\ drive on your computer as shown below. If you have a folder with the files already, please delete them before proceeding. After the folder is created, the naming convention should be **FaroJRE64bit**.

			\times
←	Extract Compressed (Zipped) Folders		
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	C:\	Browse	
	Show extracted files when complete		
	Ex	tract Cano	:el



3. In the Windows search bar, type **Ethernet Settings** and then select **Change Adaptor Options**, right click on your **Ethernet Connection**, and choose properties. Inside this dialog, select Internet Protocol Version 4 (TCP/IPv4) and select properties as shown below:

3 31	aring			
Connect using:				
Intel(R) E	themet Conr	nection (5) 1219-	LM	
			Config	gure
This connection	n uses the fol	lowing items:		
🗹 🏪 Client	for Microsoft	Networks		~
🗹 🐙 File an	d Printer Sha	aring for Microso	ft Networks	
Point Grey Lightweight Filter Driver 12/29/2017, 2.7.3.				
🗹 🐙 Qo S P	acket Sched	duler		
🗹 💼 Interne	et Protocol V	ersion 4 (TCP/IF	Pv4)	
🗌 🔔 Micros	oft Network	Adapter Multiple	xor Protocol	
Micros	oft LLDP Pro	otocol Driver		~
<				>
Install		Uninstall	Prope	rties
				3
Description		ocol/Internet Pr	otocol. The de	fault
Description Transmission wide area ne across divers	twork protoc interconne	ol that provides ected networks.	communication	n



4. Inside the properties, use the following IP Address to 128.128.128.10 (10-99) and the subnet mask to 255.255.255.0 as shown below and press **OK** to accept the configuration. If you changed the IP address of your FARO tracker, please enter in the value here from the utilities.

Internet Protocol Version 4 (TCP/IPv4) Properties		×		
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 automatica	Obtain an IP address automatically			
Use the following IP address:				
IP address:	128 . 128 . 128 . 10			
Subnet mask:	255.255.255.0			
Default gateway:				
Obtain DNS server address automatically				
Use the following DNS server addresses:				
Preferred DNS server:				
Alternate DNS server:				
Validate settings upon exit Advanced				
	OK Cance			

5. If you are using a wireless connection the default network is 169.524.4.115 and can be configured in the Wireless settings in the same manner described above.



Common Workflows

Laser Tracker Configurations

1. Open **Inspire** > Instrument Tab > Add New Instrument and then select your desired instrument below:



2. Next click on the to verify your IP address is correct. If you have a this means you have entered in the wrong IP address and if you have a , that means we have successfully pinged the Laser Tracker as shown below:





3. Now press OK to accept the configuration and then select Add and Connect.



4. Once you are connected, you will see a Measurement HUD appear in the main graphical view and if you click on the **SMR**, you can access additional tooling:





5. On the left-hand side, you can access the instrument settings such as measuring level, performing operational checks, or accessing the TrackerPad:





Acquisition Modes and Tooling

Spherically Mounted Retroflector (SMR)

• This probe/tooling can only be used in **Stationary**, **Stable Points**, or **Continuous Time/Distance** acquisition mode. Please click on the to access additional options and save formats.

Continuous Distance	×
	÷ 🖬 🗄
Separation:	1.000 (Millimeters)
Stable Start for SMR:	✓
Loop to Iterate for SMR:	
Stable to Iterate for SMR:	
	Apply Cancel

NOTE:

If you are using an **External Trigger**, it involves a special input port on the controller, a tiny LEMO connector. Then you can connect something as simple as a button, or as involved as an external clock source to trigger measurements.

Common Workflows



6Probe Configuration



- 1. You must have **Inspire v.2021.0.157.0 or higher** to run the 6Probe 2.0 with Auto Detected probe tips.
- 2. After your connected, you can switch over to the 6Probe by selecting it from the probes/tooling menu or placing it in front of the laser and following the prompts on the screen. If you see -1000mm as the probe size, this means you must compensate your 6Probe before you can acquire data and the procedure can be found in the Index and Resources Section.

		%-1000mm		
		SMR 1.5 in	1.5"	
		SMM		
		SMR 0.5 in	0.5"	
		SMR 0.875 in	0.875"	
		SMR 0 in		
		Windowed SMR 1.5 in	1.5"	
		Windowed SMR 0.875 in	0.875"	
	~	6Probe		
	~	None	None	
		Manage Tooling		

3. Once the compensation is complete, it will update the size of the probe and you can now begin measuring.





Index and Resources

- 1. Tracker FARO® Knowledge Base
- 2. Cleaning and Care for the 6Probe FARO® Knowledge Base
- 3. Probe Compensation for the 6Probe FARO® Knowledge Base
- 4. Probe Check Routine for the 6Probe FARO® Knowledge Base
- 5. Missing FARO JRE Files (Inspire Download Site)