Ethernet Communication Setup for an SR865A Lock-in Amplifier

A crossover cable is not required (but it works with a crossover cable, too).

Windows computer

Install Telnet in Windows 10

- * Open "Control Panel".
- * Open "Programs".
- * Select the "Turn Windows features on or off" option.
- * Check the "Telnet Client" box.

* Click "OK". A box will appear that says "Windows features" and "Searching for required files". When complete, the Telnet client should be installed in Windows.

Open Network Status/Properties/Edit and copy down your existing settings if you need to revert it later.

Unplug ethernet cable from PC

Enter new IP settings, as shown

IP address:	192.168.0.3
Gateway:	192.168.0.1

SR865

In menu system/Telnet, select the following settings

Telnet: Enabled Receive Terminator: CR Transmit Terminator: CR-LF

Telnet			Electro		1	Ethernet	
		Enabled	Echo Off			GPIR & R\$737	
Receive T	erminator	1	_				
			CR			VXI-11 & Web	
Transmit ⁻	Terminator					Televa (
			CR-LF		Ļ	Teinet	
close							
FILE: SR865_7.BMP TIME: 10:44 08/19/2021							
100 ms	6 dB/Oct	2.50 Hz	1 V	A	AC	Float	

And in menu system/VXI-11 & Web

VXI-11: Enabled
Web: Enabled

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VXI-11	. *	* *	*		É Etherne	et
Eriable	u				GPIB &	R\$232
Web					01.0 0	
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clear		^	1	2	2	
		7K	50	4	2	ione -
close			A	±%	1911	~
CIUSE		÷	U	*	S-	
FILE: SR865_9.BMP	TIME: 10:45 08/	19/2021				
100 ms 6 dB	3/Oct	2.50 Hz	1 V	A AC	Float	

In menu system/Ethernet, set as follows: Static TCP/IP 192.168.0.4 Subnet Mask 255.255.255.0 Gateway: 192.168.0.1



Finally, power the SR865A off and back on so the settings are updated.

Windows

Open command prompt, and start a telnet session

telnet 192.168.0.4 *idn? Stanford_Research_Systems,SR865,002713,1.53