Setup notes for Dynamic Phantoms with controller connecting to a PC using an Ethernet connection:

The following are the recommended steps to install the "USB to Network Adapter" that was shipped with this phantom. The new Network Connection must be setup as a Static IP address in order for the PC to communicate with the motion controller of the phantom. Note: Steps 4-9 should be followed if the "PC Internal Network Adapter" is used instead of the "USB to Network Adapter".

To install the necessary driver, unzip the "USB-to-Network Adapter" folder found on the provided USB drive or download the zipped folder from the CIRS website. Archive to a known location and select autorun.

🌗 AutoPlay	12/21/20	15 4:46 PM	File folder
Driver	12/21/20	15 4:46 PM	File folder
퉬 Manuals	12/21/20	15 4:46 PM	File folder
Autorun	N 1/27/201	5 9:10 PM	Application
autorun GNU_GPL	File description: AutoPlay Application File version: 6.0.0.0	9:10 PM :33 PM	Setup Information Text Document
 trendnet_1 trendnet_blac 	Date created: 12/21/2015 4:46 PM Size: 2.50 MB KVrme 10/1/2015	9:13 PM 9:13 PM	Icon Icon

Note: The provided "USB to Network Adapter" can act as Plug and Play device on some PC but CIRS recommends doing the installation of the driver as outlined above. 2. Let your Windows OS select the most appropriate driver by selecting "Install Driver".

TRENDNET	
USB 3.0 to Gigabit Ethernet Adapter TU3-ETG	Install Driver Quick Installation Guide User's Guide Product Registration Exit

- 3. Follow the on screen steps and acknowledge all the messages related to driver's installation. Once the driver installation is finished, plug the "USB-to-Network Adapter" into your PC's USB port and acknowledge the Windows installation message. Exit the "USB-to-Network Adapter Software" menu by clicking Exit.
- 4. From the Control Panel, open the Network and Sharing Center and then select "Change adapter settings".

Control Panel Home	View your basic network	information and set up o	onnections
Change adapter settings	A	— 🌗 —	— 🥥
change advanced sharing settings	WS1057 (This computer)	cirsinc.com	Interne

5. Providing that the installation of the "USB-to-Network Card" was successful, the newly installed Network Adapter should show as "ASIX AX88179 USB 3.0 to Gigabit Ethernet Adapter". Select it's Properties using the right mouse click menu as shown below.

🚱 🔍 🖳 🕨 Control Panel 🕨 Network a	nd Internet 🔸 Network Connections 🔸
Organize Disable this network device	Diagnose this connection Rename this
Local Area Connection Network cable unplugged Intel(R) 82579LM Gigabit Network	Local Area Connection 2 cirsinc.com Intel(R) 82574L Gigabit Network C
Local Area Connection 3 Network cable unplugged ASIX AX88179 USB 3.0 to Gigabit E	
	Disable Status Diagnose
	Bridge Connections
	Create Shortcut Delete Rename
	Properties

Select Internet Protocol Version 4 (TCP/IPv4) and click on properties

Networking Sharin	ng			
Connect using:				
ASIX AX88	179 USB 3.0 to Gigabit	Ethemet A	dapter	
			Configure	·
This connection u	ses the following items:	6 3		
Client for	Microsoft Networks			~
 ✓ □QoS Pac ✓ ▲ Internet F ✓ ▲ Link-Law 	ket Scheduler Protocol Version 6 (TCP	/IPv6)	Driver	
Cost Pace Cost Pace	ket Scheduler Protocol Version 6 (TCP er Topology Discove Network Adapter Multi Protocol Version 4 (TCP	Mapper I/O plexor Proto VI (v4)	Driver ocol	~
Cost Pace Cost Pace	ket Scheduler Protocol Version 6 (TCP er Topology Discove Network Adapter Multi Protocol Version 4 (TCP Uninstall	VIPv6) Mapper I/O plexor Proto VICv4)	Driver ocol Properties	>
Cos Pac C	ket Scheduler Protocol Version 6 (TCP er Topology Discove Network Adapter Multi Protocol Version 4 (TCP Uninstall ontrol Protocol/Internet ork protocol that provid interconnected network	VIPv6) Mapper I/O plexor Proto VICV4) Protocol. T es commun s.	Driver ocol Properties he defaul ication	> > > s

7. In the internet Protocol Version 4 (TCP/IPv4) properties window, change from default "Obtain an IP address automatically" to "Use the following IP address:" Enter "192.168.0.101" as the IP address and "255.255.255.000" as the Subnet mask. Note: If an IP address conflict occurs because IP address 192.168.0.101 is already assigned to another Net work Adapter, the user can try any other IP address between 192.168.0.102 and 192.168.0.249.

Internet Protocol Version 4 (TCP/IPv4)	Properties	×
General		- 1
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.	atically if your network supports ask your network administrator	1
Obtain an IP address automatically	Y	
Use the following IP address:		- 8
IP address:	192.168.0.101	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:		
Obtain DNS server address autom	atically	
Use the following DNS server addr	esses:	- U
Preferred DNS server:		2
Alternate DNS server:	· · ·	
Validate settings upon exit	Advanced	1
	OK Cance	e

8. Once the IP address is entered, click OK. Connect the PC to the Controller using the provided Ethernet cable by inserting one end of the cable in the controller's Ethernet port and the other one in the "USB-to-Network Adapter". Power on the controller. To check that the PC to controller connection was successful, ensure the icon of the "ASIX AX88179 USB 3.0 to Gigabit Ethernet Adapter" in the Control Panel matches the image below. Network Connection can be renamed using the right mouse click menu.



A more in depth check of the PC-to-controller communication connection can be done by running a "ping command" in Command Prompt as seen in the image below. To ping the controller, type "ping 192.168.0.250" and press enter. Ping certifies IP-level connectivity to another TCP/IP device. If you receive Ping statistics for IP address 192.168.0.250 (controller IP address) the communication connection between the PC and controller was successful.

ticrosoft Windows [Version 6.0.6002] Copyright (c) 2006 Microsoft Corporation. All rights reserved.	-
C:\Users\Dynamic Phantom>ping 192.168.000.250	
Pinging 192.168.0.250 with 32 bytes of data: Reply from 192.168.0.250: bytes=32 time=2ms TTL=64 Reply from 192.168.0.250: bytes=32 time=1ms TTL=64 Reply from 192.168.0.250: bytes=32 time=1ms TTL=64 Reply from 192.168.0.250: bytes=32 time=1ms TTL=64	
Ping statistics for 192.168.0.250: Packets: Sent = 4, Received = 4, Lost = 0 (8% loss), Approximate round trip times in nilli-seconds: Minimum = 1ms, Maximum = 2ms, Average = 1ms	
C:\Users\Dynamic Phantom>	