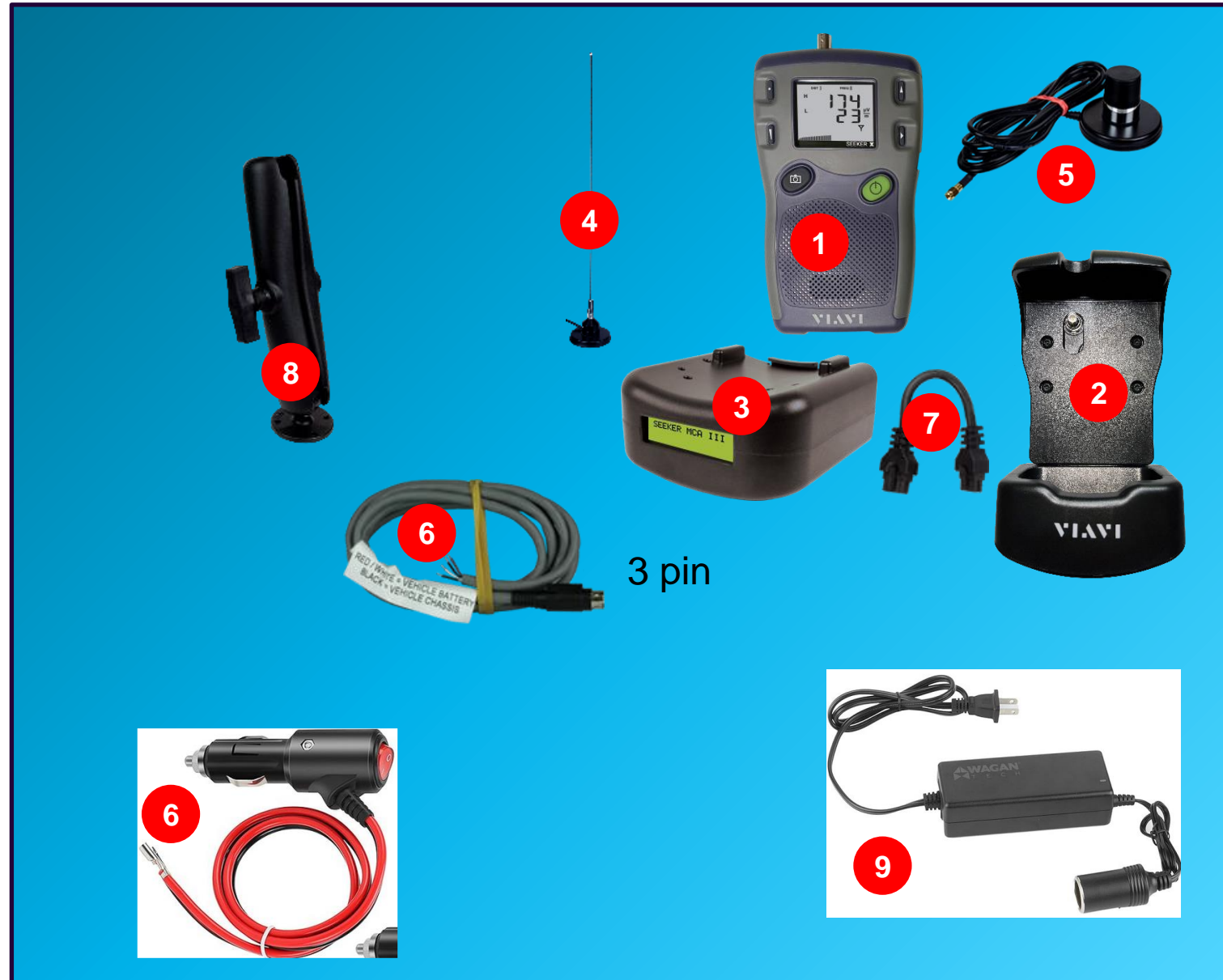# Leakage Stand Alone Test

Test Bench Leakage Gear suggestions

1. TRI-LKG-SEEKER-X-MF
   - Main Frame (Meter)
2. TRI-LKG-SKR-X-VEH-MOUNT
   - Mobile Mount
3. TRI-LKG-SEEKER-MCA-WIFI
   - MCA III w/Wi-Fi
4. TRI-LKG-AVM-3 OPTIONAL
   - Antenna Vehicle Mount (whip, 130-250 MHz)
   - Default cut length (138 MHz)
5. TRI-LKG-MCAIII-WIFI-ANT
   - Dual Freq Wi-Fi antenna (2.4 & 5.0 GHz)
6. 22129837 Power Cable TRI-LKG-SKR-MCA-PWR-CBL
   - MMT power cable
7. TRI-LKG-SKR-MCA-PWR-CBL
   - Power/Data Cable from MMT to MCA III

8. TRI-VEH-ARM-MMC for mounting to base

9. **Wagan EL9903 AC to DC Power Adapter 5A 60W Power Converter 110V AC to 12V DC Amazon**

10. **12V Cigarette Lighter Male Plug Replacement with On Off Switch and Leads 1.8FT 14AWG Amazon**

3 pin

VIAVI

Test Bench for MCA III Meter Mount Seeker X

Ground

+ 12vdc

TRI-LKG-SKR-MCA-PWR-CBL

22129837
GREEN=IGNITION SWITCH (ON)
WHITE=BATTERY (+)
BLACK=CHASSIS (−)

3 pin din

White and green to
+12 vdc 2 amp

Wagan EL9903 AC to DC Power Adapter 5A 60W Power Converter 110V AC to 12V DC
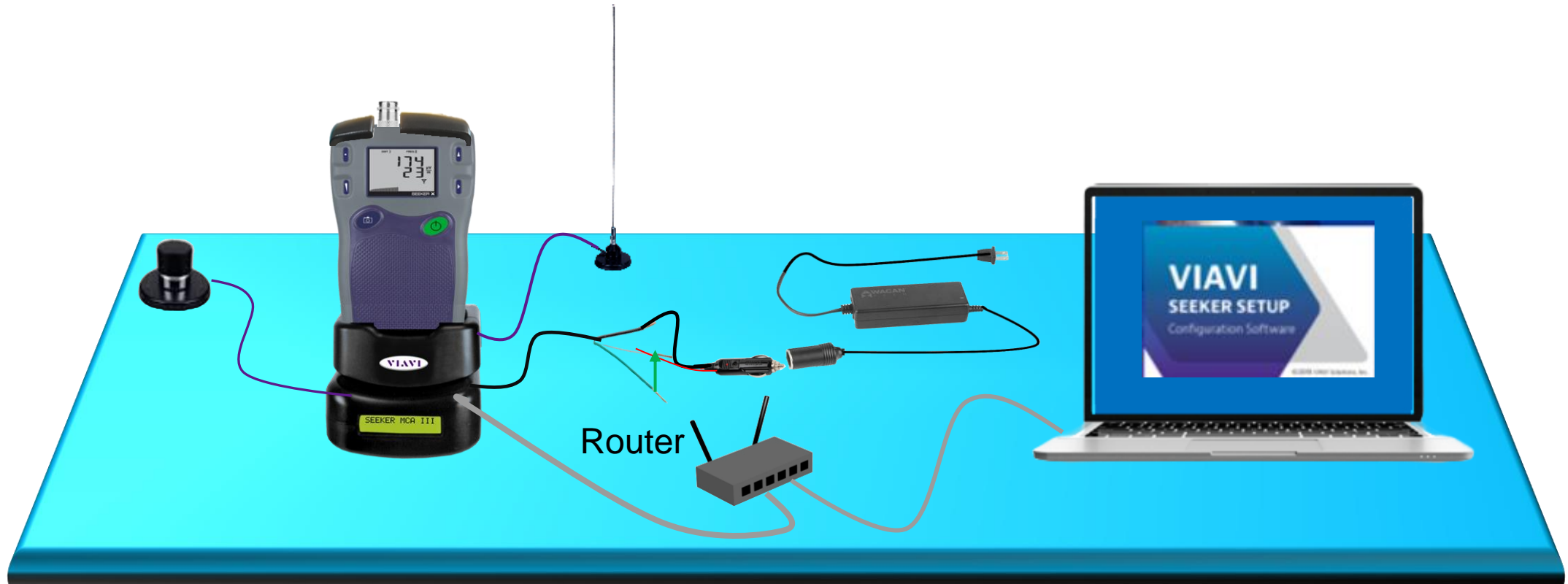
Wi-Fi

SEEKER MCA III
SYSTEM READY

Ground

+ 12vdc

Bench Test

Standalone tests can be performed without the Seeker X

If Seeker X has been programmed through Stratasync and Mobile Tech then data will be downloaded to the MCA III.
Wifi and Law server test still can be verified in Seeker Setup

Router

Purpose

- Verify the Seeker X and MCA III Programing before you install into truck.

- Use Seeker Setup to test Wifi connection

- Use Seeker setup to verify Law Server connection

- Use Seeker setup to update firmware on Seeker X and MCA III (2 minutes only)

- Train Techs to use test button on the back of MCA III to manually test WIFI and manually upload leakage data.

- Review Seeker Setup Video
  https://eguides.viavisolutions.com/catvleakage/video/mcaseekersetup.mp4

- Review Rollout Guide
  https://eguides.viavisolutions.com/catvleakage/pdf/Leakage%20Program%20Rollout%20Procedure1.2.pdf

NOTE: Programing that done using the Seeker setup is superseded by the Seeker x program from Stratasync Mobile Tech

Installing Seeker Setup version 4.50

Download Seeker Setup

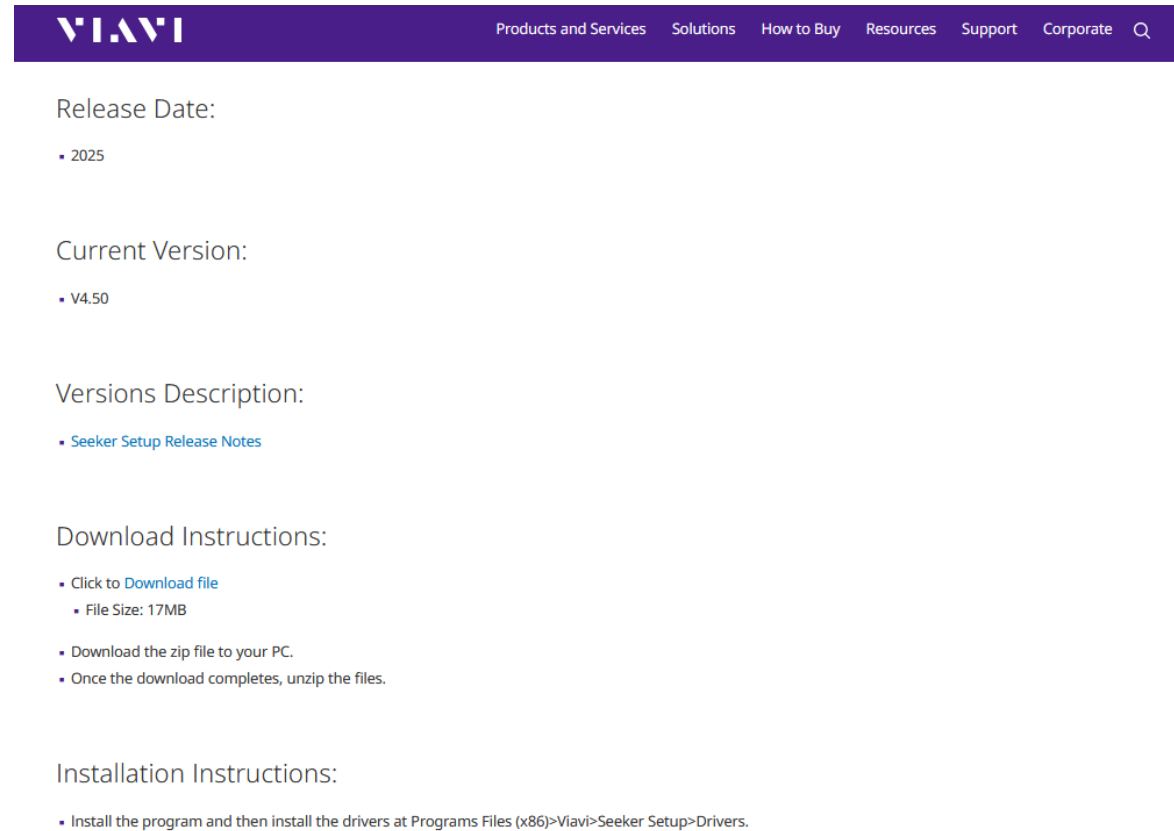- https://www.viavisolutions.com/en-us/software-download/seeker-setup-software

Step 1
Download Instructions:
- Click to Download file
  - File Size: 17MB
- Download the zip file to your PC.
- Once the download completes, unzip the files.

**Step 2**
Installation Instructions:
- Install the program and then install the drivers at Programs Files (x86)>Viavi>Seeker Setup>Drivers.

VIAVI   Products and Services   Solutions   How to Buy   Resources   Support   Corporate

Release Date:
- 2025

Current Version:
- V4.50

Versions Description:
- Seeker Setup Release Notes

Download Instructions:
- Click to Download file
  - File Size: 17MB
- Download the zip file to your PC.
- Once the download completes, unzip the files.

Installation Instructions:
- Install the program and then install the drivers at Programs Files (x86)>Viavi>Seeker Setup>Drivers.

Seeker Setup Serial Connection

- To communicate to the Seeker x you will need a USB to Mini USB cable.

- You will also need the USB driver installed on your PC.

- If they are not installed, then the PC will not recognize the USB as a serial connection and will show as an unknown device on the device manager.

- See Graphic.
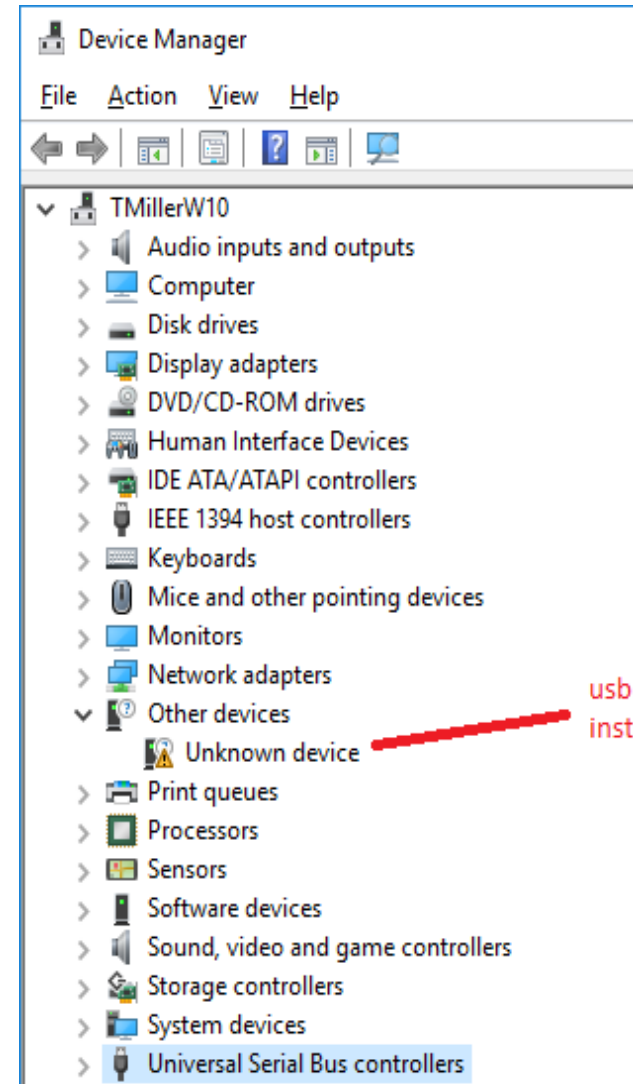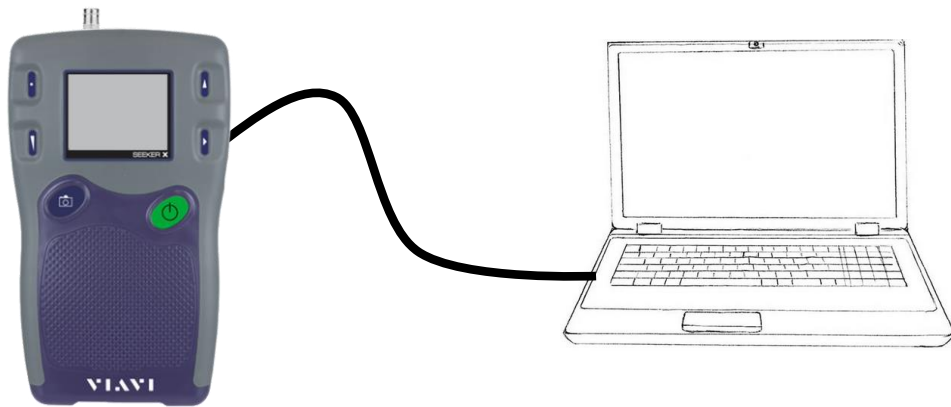
usb serial adapter without Driver installed

Seeker Family USB Serial Port

- **After the installing the driver the Device Manager should show the USB as a com port. See graphic below**
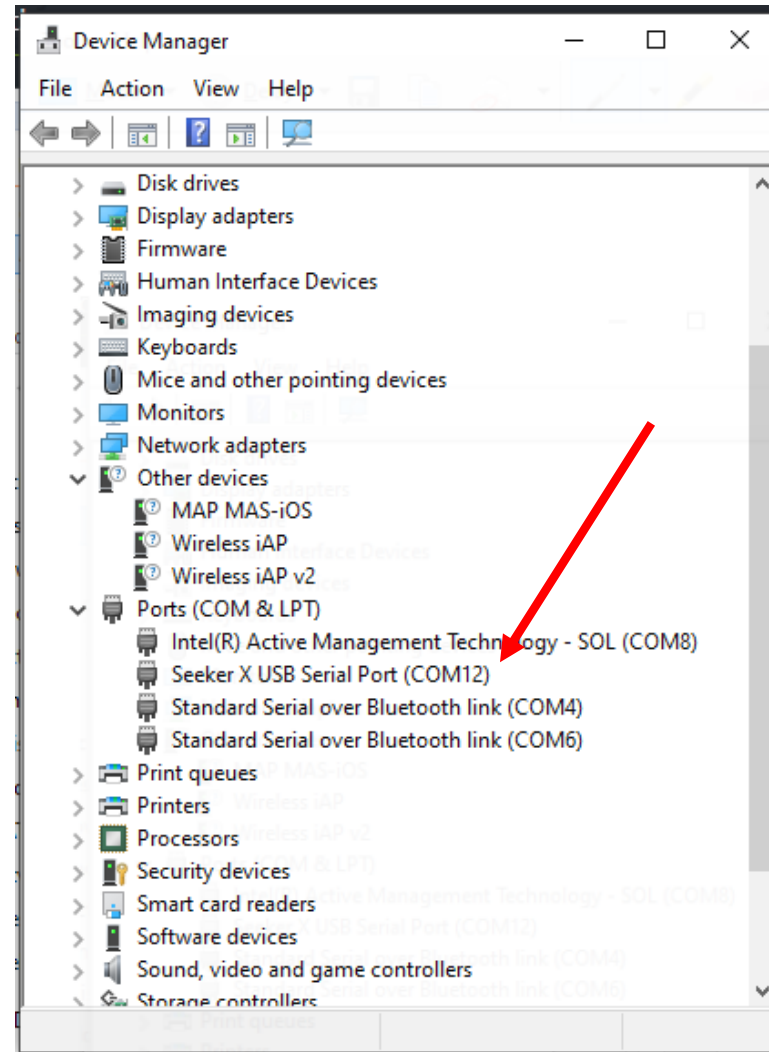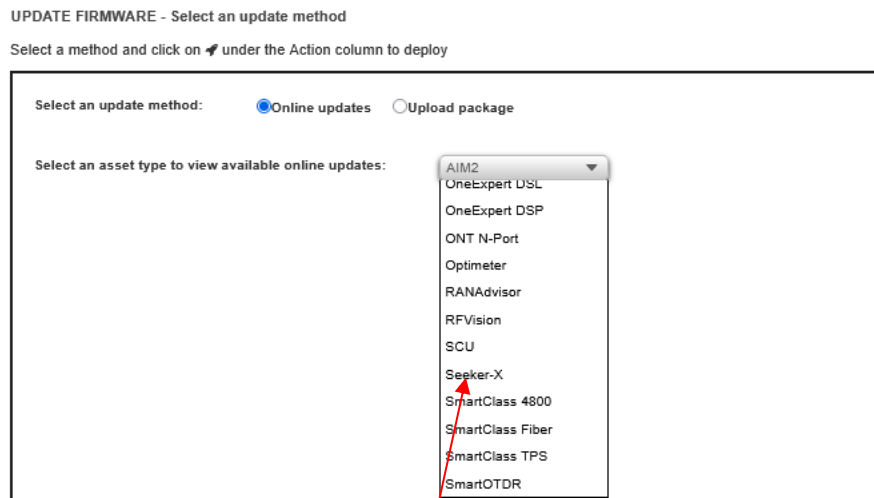
Managing Firmware Updates

Note: Using Seeker Setup for firmware upgrades is recommended when uploading to LAW-X Version 5.3
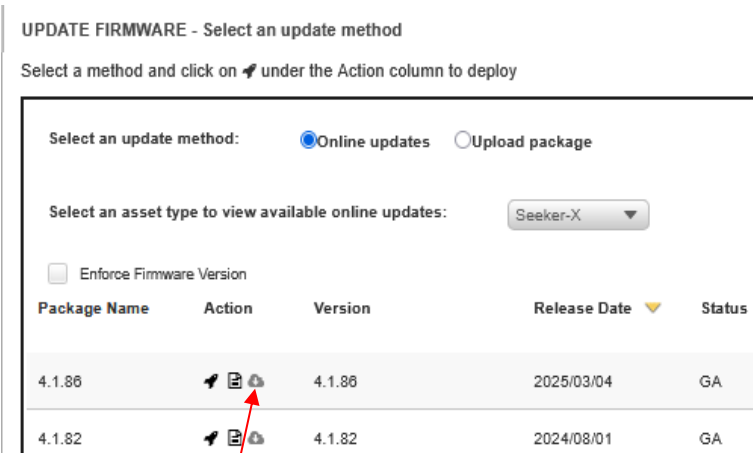
Seeker X Firmware Files

- Get Files from Stratasync
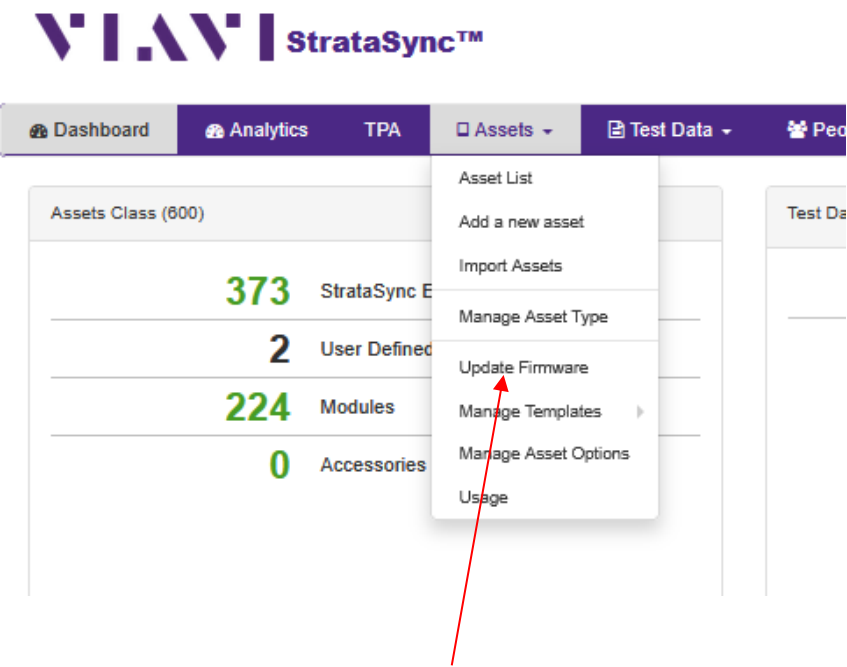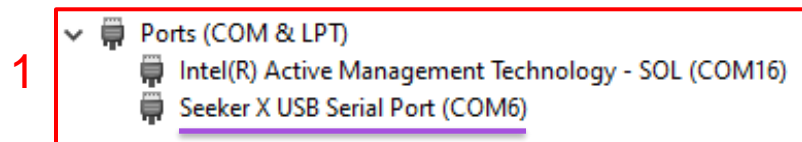

Update Firmware

Seeker X

Download

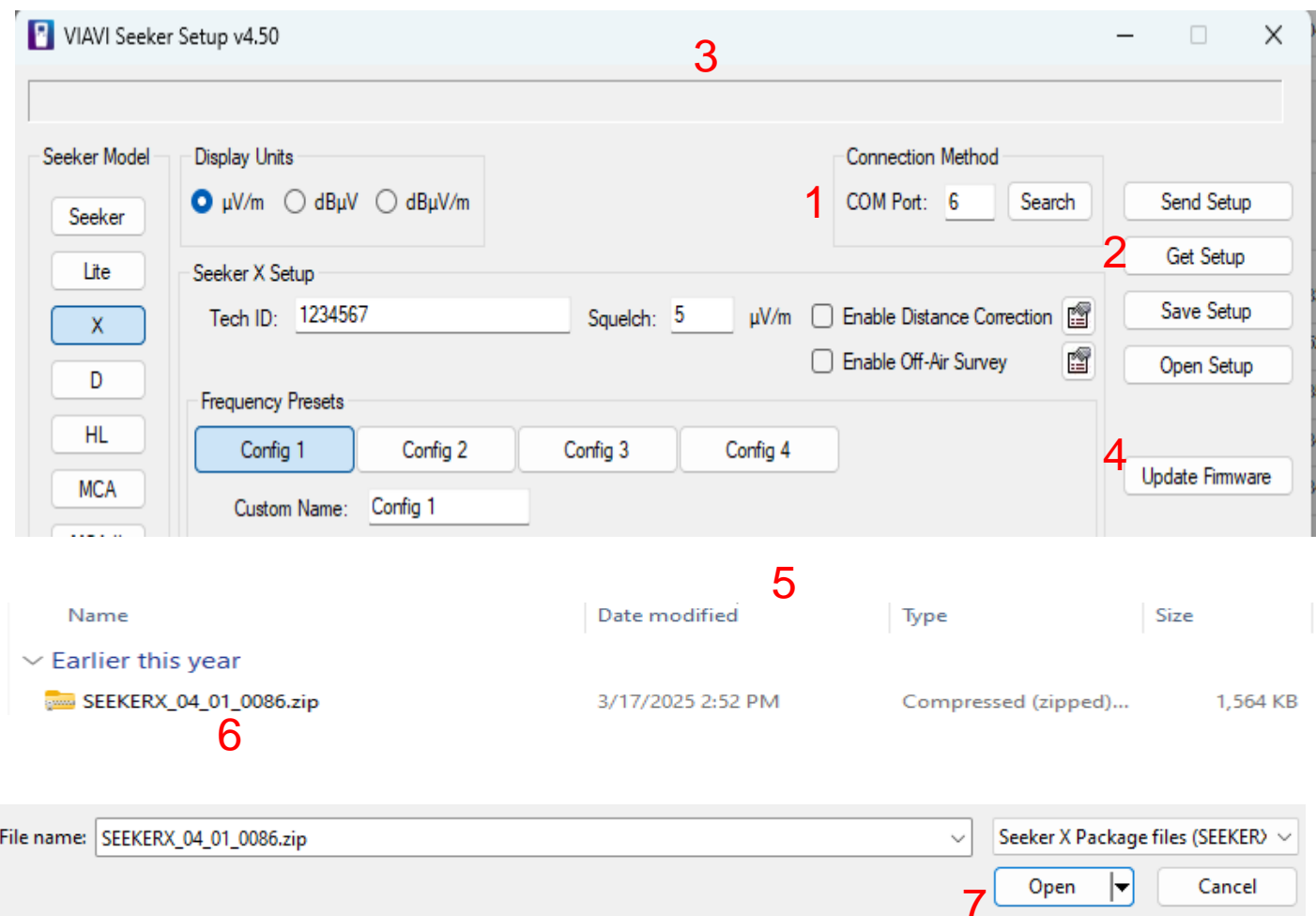# Upgrade Seeker X Firmware Using Seeker Setup
Using Seeker Setup is recommended with LAW-X Version 5.3

Connect to Seeker X via USB

1. Check the Device Manage in the Control Panel on your PC to verify the Seeker X communications port and insert the port number in the "Connection Method" space

2. Get Setup will populate the fields currently programmed in the Seeker X and verify connectivity
   - If not connected, contact support for Seeker X drivers

3. Verify current Application Firmware Version
4. Press Update Firmware
5. Browse to firmware file location, select the Seeker X Package file type in the dropdown
6. Select Firmware File
7. Open
8. The Seeker X will reboot when upgrade is complete
9. Verify again that the firmware version changed to the desired upgraded version

Upgrade MCA III Application Firmware using Seeker Setup
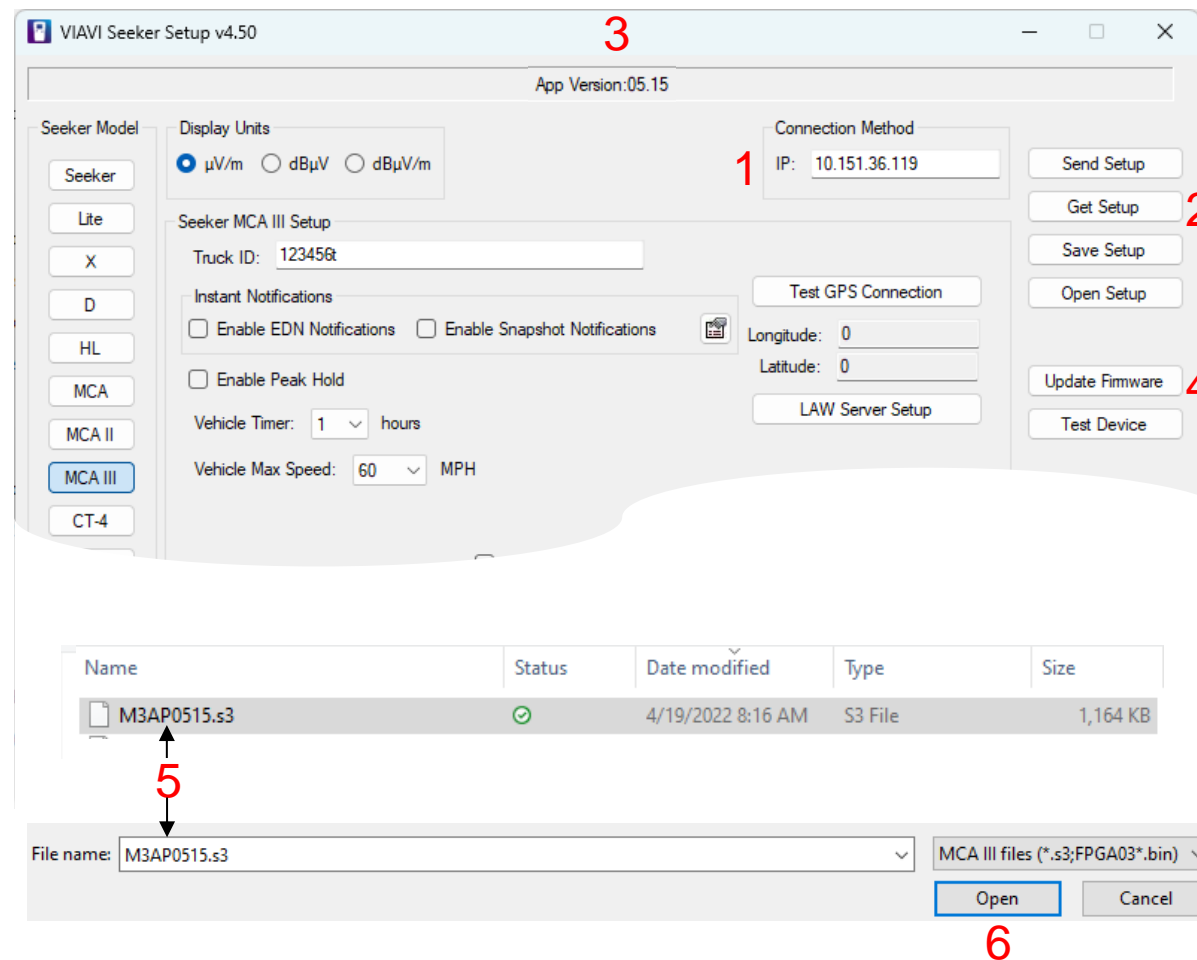## Using Seeker Setup is recommended with LAW-X Version 5.3

Connect to MCA III via Ethernet

1. Using the small button on the back of the MCA III, navigate to ethernet status and double click to obtain IP address

ETHERNET STATUS

IP
192.168.0.31

2. Get Setup will populate the fields currently programmed in the MCA III
3. Verify Application Firmware Version
4. Update Firmware
5. Select Firmware File
6. Open
7. Power cycle when upgrade is complete

MCA III STATUS
V05.15

VIAVI Seeker Setup v4.50 — 3

App Version:05.15

Seeker Model: Seeker, Lite, X, D, HL, MCA, MCA II, MCA III, CT-4

Display Units: ● µV/m ○ dBµV ○ dBµV/m

Connection Method: IP: 10.151.36.119 — 1

Send Setup
Get Setup — 2
Save Setup
Open Setup

Seeker MCA III Setup
Truck ID: 123456t

Instant Notifications
☐ Enable EDN Notifications ☐ Enable Snapshot Notifications
☐ Enable Peak Hold
Vehicle Timer: 1 hours
Vehicle Max Speed: 60 MPH

Test GPS Connection
Longitude: 0
Latitude: 0
LAW Server Setup

Update Firmware — 4
Test Device

Name	Status	Date modified	Type	Size
M3AP0515.s3	⊘	4/19/2022 8:16 AM	S3 File	1,164 KB

5

File name: M3AP0515.s3   MCA III files (*.s3;FPGA03*.bin)

Open   Cancel

6

WIFI Test Test

1. Ethernet connection
2. Get setup Read complete
3. Wi-Fi Setup
4. Select Access Port 1
5. Input SSID
6. ASCII Key
7. OK
8. Save setup
9. Get setup
10. Wi-Fi Setup again
11. WIFI signal monitor
12. Wifi Quality should appear if successful
(may take 30 seconds)

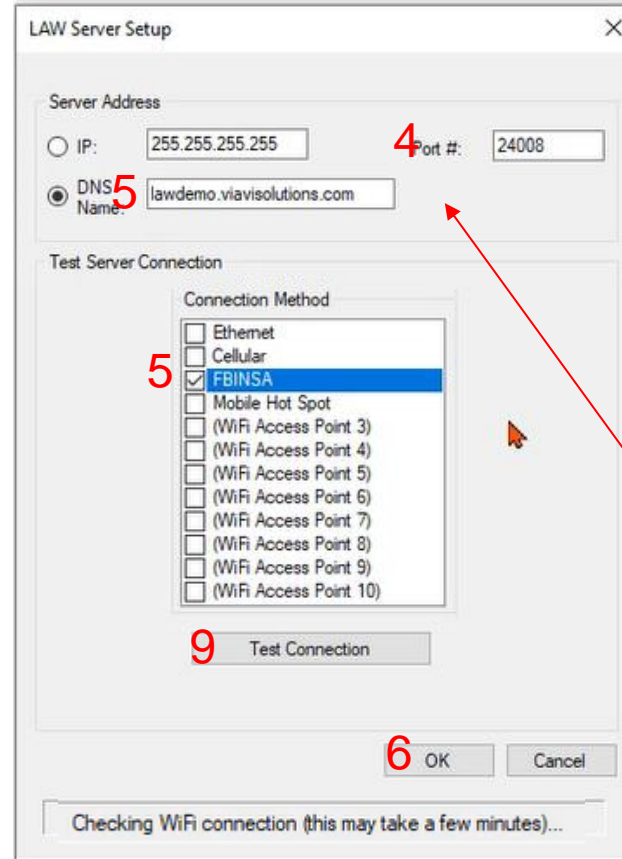**NOTE1: the test above was done without a seeker x in the Mobile Mount**

NOTE2: Programing that done using the Seeker setup is superseded by the Seeker x program from Stratasync Mobile Tech Seeker x will program the MCA III

Law Server Connection

1. Ethernet connection
2. Get setup
3. Law Server Setup
3. Enter port #
4. Enter DNS Name
5. Enter connection Method
6. OK
7. Send Setup
8. Law Server setup
9. Test Connection
10. Law server connection successful

NOTE1: the test above was done without a seeker x in the Mobile Mount

NOTE2: Programing that done using the Seeker setup is superseded by the Seeker x program from Stratasync Mobile Tech Seeker x will program the MCA III

Get Port Number in Law server Active Connections