# TinyPilot Voyager 2a

## 2 Models
  - USB-C Power Only
  - PoE or USB-C Power

Control any computer remotely.

Voyager 2a is TinyPilot's newest professional-grade KVM over IP device. Its quiet, compact design makes it a great fit for professional environments such as offices, data centers, and server rooms.

## Features

- Fully plug 'n play - no software installation required
- Capture video at 1920x1080 resolution at 24 frames per second with under 140 milliseconds of latency
- Forward keyboard and mouse input
- Pure HTML5 interface (no client software required beyond a browser)
- Hear remote audio locally
- Mount virtual media

- Boot from virtual storage
- Wake on LAN
- Password authentication
- Secure TLS/HTTPS connection
- Paste text from clipboard
- Fullscreen mode
- Save remote screenshots

## Specifications

- 3.2" W x 3.6" L x 2" H
- Broadcom BCM2711, Quad core 1.5GHz ARM CPU
- 2.4 GHz and 5.0 GHz IEEE 802.11ac wireless
- Toshiba T358743 HDMI capture chip
- Active PoE IEEE 802.3af/at/bt (PoE model only)

- 2 GB RAM
- 32 GB storage
- Debian Bullseye OS
- Gigabit Ethernet
- FCC/CE compliant

# Includes

- TinyPilot Voyager 2a device
- [TinyPilot Pro](#) software with a year of free updates
- USB-C power plug (North American socket)

- 3' USB-C to USB-A cable
- 3' HDMI cable
- Detailed documentation and [quick start instructions](#)

# Supported Resolutions

When your TinyPilot connects to your target machine, the following display settings are available:

## HDMI

| Resolution | Refresh rates (Hz) |
|------------|--------------------|
| 1920x1080 | 50, 30, 25, 24 |
| 1600x900 | 60 |
| 1280x1024 | 75, 60 |
| 1440x900 | 60 |
| 1280x960 | 60 |
| 1280x800 | 60 |
| 1152x864 | 75 |
| 1280x720 | 60, 50, 30, 25, 24 |
| 1024x768 | 75, 70, 60 |
| 832x624 | 75 |
| 800x600 | 72.25, 75, 60, 56.25 |
| 720x480 | 60 |
| 640x480 | 75, 72.75, 66.67, 60 |
| 720x400 | 87.85 |

## VGA

Using a TinyPilot VGA to HDMI Adapter

| Resolution | Refresh rates (Hz) |
|------------|--------------------|
| 1280x1024 | 75, 60 |
| 1440x900 | 75, 60 |
| 1280x960 | 60 |
| 1280x800 | 60 |
| 1152x864 | 75 |
| 1024x768 | 75, 70, 60 |
| 800x600 | 75, 60 |
| 640x480 | 75, 60 |

## Unsupported Common Resolutions

- 1600x1200 at 60Hz
- 1920x1080 at 60Hz
- 2560x1440 ('QHD')
- 3840x2160 ('4K')

# Connection Diagram



HDMI input
(from target computer)

USB-C data port
(to target computer)

USB-C power port



Ethernet port
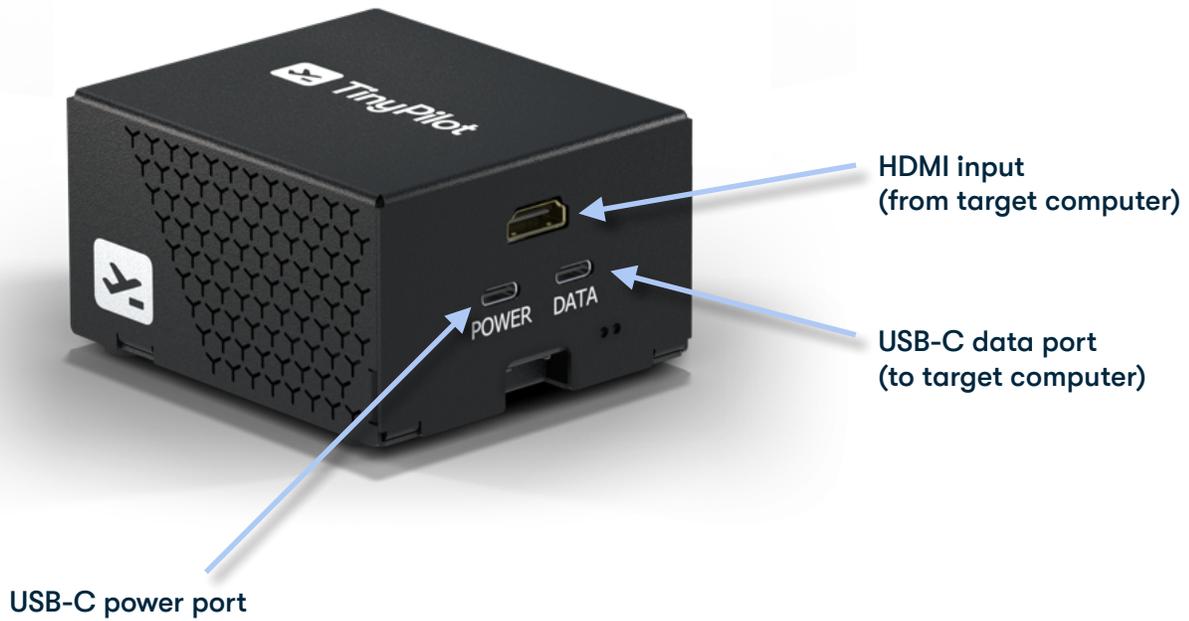
# Warranty

12-month Limited Manufacturer's Warranty

If any of your parts are defective, we will happily replace them with a valid proof of purchase.

# Software Updates

Your Voyager 2a purchase includes free TinyPilot Pro software updates with bug fixes and new features for 12 months after your purchase.

Use it forever:
When you purchase a Voyager 2a, you'll never be locked out of your device for an invalid software license.

# Enterprise API

The TinyPilot Enterprise API enables clients to create custom integrations for their TinyPilot devices.

Clients can use the REST API to interact with their TinyPilot device independently of TinyPilot's native web interface.

Contact enterprise@tinypilotkvm.com to purchase an Enterprise license.

# Quick Start Instructions

Step 1: Attach Ethernet cable
1. Connect an Ethernet cable to your Voyager 2a's Ethernet port.
2. Connect the other end of the Ethernet cable to your network router or switch.

Step 2: Attach power cable
*If you purchased the TinyPilot Voyager 2a with PoE, you can skip this step.*
1. *Connect the AC to USB-C power adapter to a power outlet.*
2. *Connect the USB-C cable from the power adapter to the USB-C port labeled "POWER" on the TinyPilot Voyager 2a device.*

Step 3: Verify status lights
If everything is connected correctly, you should see Voyager 2a's status LED lights turn on:
- The power LED should shine a solid red.
- The disk activity LED will flash green intermittently as the device runs.

Step 4: Attach USB data cable
Use the USB-C to USB-A cable to connect the Voyager 2a to your target computer.
1. Connect the USB-C end (rounded) of the cable to the USB-C port labeled "DATA" on the TinyPilot Voyager 2a device.
2. Connect the USB-A end (rectangular) of the cable to a USB port on your target computer.

Step 5: Connect VGA to HDMI adapter (Optional)
*This step only applies if you purchased a VGA adapter for a target system with no HDMI output.*
1. Connect the VGA adapter to your computer's VGA display output.
2. Use the 3.5mm audio cable to connect your computer's audio output port to the VGA adapter's audio input port.
3. Use the 30-inch black USB-A to microUSB cable to connect the VGA adapter to any available USB port on your computer.

Step 6: Connect the HDMI cable
1. Connect the HDMI cable to the HDMI input port on the Voyager 2a.
2. Connect the other end of the HDMI cable to the output display port of the target computer.

*Depending on the target computer's output, you can use a HDMI to HDMI cable, a DisplayPort to HDMI cable, or a DVI to HDMI cable.*

Step 7: Access the TinyPilot web interface
*Your first boot will take up to five minutes. You may see the web interface restart as TinyPilot generates new, unique TLS keys for your device.*
With your TinyPilot booted, you can now access the TinyPilot web interface from any device on your local network by visiting one of the following URLs:

<div align="center">

[https://tinypilot/](https://tinypilot/)     [https://tinypilot.local/](https://tinypilot.local/)     [https://tinypilot.localdomain/](https://tinypilot.localdomain/)

</div>

*The first time you visit the TinyPilot web interface, you'll see a privacy error because TinyPilot establishes a secure connection, but your system doesn't recognize the server yet.*
You can safely ignore this warning and proceed to TinyPilot.

After you resolve the privacy error, you will be able to access the TinyPilot web interface. To fix the privacy error permanently, see [Fix Privacy Error](#) instructions.

Your target computer's display output should display in the browser. TinyPilot forwards any keystrokes you enter to the target machine.

For a full list of [Frequently Asked Questions](#) and support options, please visit [our website](#).