

hovercam®

Pilot Air Trio

Classroom Casting + Wireless Doc Cam + Mobile Podium

Secure Plug-n-Play Casting

Ergonomic Mobile Podium

Wireless Doc-Cam

Inspire Engagement

All Day Wireless Teaching

Pilot Air Trio is an all-in-one wireless teaching station that combines the **ORBIT wireless document camera** with secure plug & play **laptop casting**, and a **powerful battery pack** to keep your teaching devices running all day. Teach untethered, move freely, and connect seamlessly with your IFP – all while keeping things secure and simple.



ORBIT Trio



Pilot Air



Simple

True plug-n-play setup. No drivers. No network configuration.

Mobile

Teach from anywhere or show work from a student's desk.

Secure

As hard to hack as an internal Closed-Circuit TV, only wireless.

Compatible

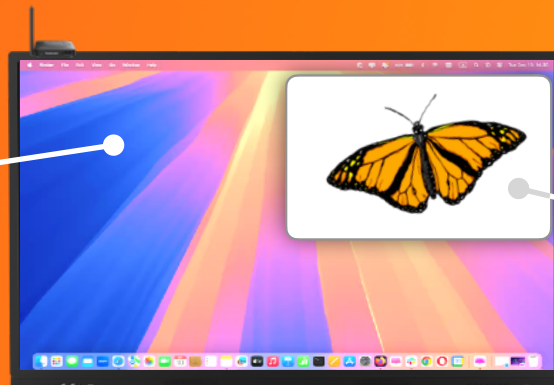
Works with Windows, Mac, and Android. Bidirectional touch on Windows.

Simultaneous Casting to Any IFP

USB Touch-Back Supported*



Cast Laptop



Cast Doc-Cam

Multiple View Modes: Full Screen, Split Screen, Picture-In-Picture

*compatible touch display required

Pilot Air

Trio Air

Two
Versions

Pilot Air

Trio PRO

5GHz

Private Secure Wireless Link
No Line of Sight Required
More Affordable

60GHz mmWave

Zero Wi-Fi Interference
Line of Sight Required
Slightly Higher Cost

EXPANDED VIEW

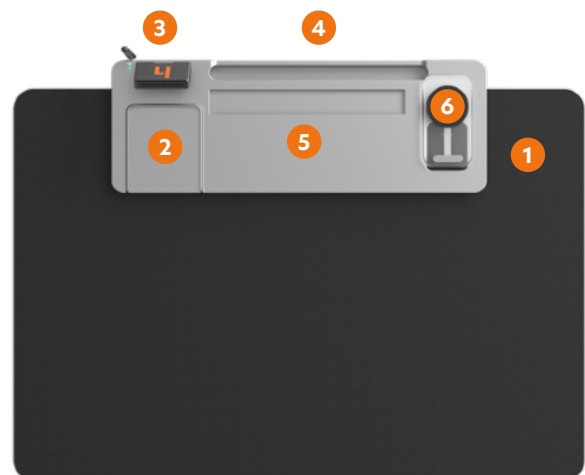


- 1 Adjustable Positioning Rail
- 2 Document Camera Charging Station
- 3 Wireless Antenna (Trio Pro vs Trio Air)
- 4 Tablet Stand
- 5 Pen Storage
- 6 Magnetic Phone Charger

Take a Closer Look

- 1 Trio Wireless Document Camera
- 2 Trio Dock (see next section for more info)
- 3 60,000mAh Battery Pack
- 4 Secure Cage for Overnight Laptop Storage
- 5 Height Adjustable Foot Pedal
- 6 Slide-Out Mouse & Keyboard Tray
- 7 Cup Holder

TOP VIEW



Technical Specifications

Part Number Pilot Trio Air Bundle: HCPTABOTA-5

WIRELESS

Wireless Radio Frequency Orbit Trio Air: WiFi 6 / 802.11ax /5Ghz with up to 1.2Gbps shared bandwidth

Wireless Transmission Range Orbit Trio Air: Up to 300ft unobstructed

Impact on Network Management

Not On Your Network - Near-Zero Impact

- ✓ Orbit Trio Air: Isolated Network Segment
- ✓ USB or HDMI link serves as a fire gap
- ✓ Uses built-in OS-sanctioned generic drivers
- ✓ Leverages layers of system security for USB devices
- ✓ Closed loop network segments
- ✓ End-to-end encryption w/ unique key & factory-paired
- ✓ Running on powerful computing hardware
- ✓ Locked down devices with all unnecessary services removed

Impact on Network Security

Highest Level Security - near zero minimal attack surface - rated highly robust by AI (chatGPT and Grok);

- ✓ Orbit Air - share network frequency band but isolated network segments
- ✓ Closed loop peer-to-peer wifi link outside of your network

Scalability

Highly Flexible Casting Options

- ✓ Default configuration: 1x Orbit Air, 1x Receiver, 1x Laptop Tx Dock
- ✓ Expandable to: 1-6 Orbit Cameras, 1-10x Receivers, 1-24x Laptop Tx Docks (Will Require a Separate AP)

COMPATIBILITY

Device Compatibility Connects without drivers, without Miracast to PC, Mac, ChromeBook, some tablets, and Android interactive flat panels via USB UVC | and interactive flat panels, TV's, projectors, monitors, and other displays via HDMI

OS Compatibility Connects without drivers: Windows, MacOS, ChromeOS, Android, Any OS with USB support

App Compatibility: Connects without drivers: Windows Camera app, QuickTime, Interactive Whiteboard (if not blocking other cameras), Android Camera app Zoom, Team, Meet, WebEx, or any video conference app Any app accessing USB webcam

Ease of Use True Plug-n-Play: No drivers or Apps to install, Camera-Receiver paired in factory, Minimum workload for IT staff

Stability and Driver Conflicts Immune to any OS updates, driver conflicts, version upgrades, or even hardware changes

CAMERA

Sensor | Lens 13 MP BSI CMOS | High Precision 5-element lens, f > 2.0

Zoom 4x ASR Zoom 20x Interpolated Digital Zoom, 10x Mechanical Zoom

Focus Auto-focus, Focus Lock, Manual Focus

Viewing Distance | Area 5 cm Minimum Focal Distance | A3, A4, 11 x 17, US Letter, Legal Scan Size | 13" x 21" Viewing Area

Image Resolution | Format 4224 x 3156 (13 MP) | JPEG

USB Live Video Format MJPEG, YUV

Wireless Video Resolution 1080p@30FPS, 1080p@60FPS (DEFAULT), 720p@60FPS (USB) | 4K@60FPS, 1080p@60FPS (DEFAULT), 720p@60FPS (HDMI)

Video Rec. Resolution | Format 1080p@30FPS, 720p@60FPS | MP4

Illumination 4x Ultra-Bright LED with Toggle Switch

Built-In Microphone Yes

Control Interface (Camera) Enable Auto-Focus, Lock Focus, Zoom In/Out, Freeze Image, Flip Image (180°), Sensor Rotate (90°), Illumination Off/Low/High, Take Snapshot*, Video Recording Start/Pause/Stop*
*Only functional when recording locally. Micro SD card required (not included)

Control Interface (Remote) Power receiver (Rx) on/off, full-screen (toggle), split-screen (toggle), picture-in-picture (toggle)

Camera Viewer Software (Recommended, but not required) Flex 11 for PC, Flex Mac, Flex Android, HoverCam for Chrome: Document camera viewer software with lesson recording, wireless streaming, live annotations, scanning, snapshots and more

Technical Specifications (Continued)

I/O

I/O - Camera	HDMI 1.4/2.0 (HDCP 1.2) output: For direct connection to HDMI display DC 12 V input: For charging camera internal battery Micro SD Slot: For internal media storage (MicroSD card not included)
I/O - Receiver	USB-C 3.0/3.1 output: For direct UVC connection to PC, Mac, Linux, Chromebook, or Android interactive display HDMI1.3 output: (optionally HDMI1.4, 2.0, 3D, HDCP1.2): For direct connection to HDMI display USB-A 2.0 input: For USB-touch input from compatible touch display
I/O - Transmitter Dock	USB-C #1 "Phone Wireless Charger": Input for MagSafe / Qi phone + accessories charging station USB-C #2 "Tx Power": Input: DC 5 V, 2 A (10 W) to power internal transmitter (Tx) USB-C #3 "PC Data": Input: For DisplayPort/HDMI (required) Output: USB UVC (from Orbit camera Tx), USB HID data (from display USB-Touch)
I/O - Podium Battery	USB 1/2 Output: 5 V / 2 A USB 3/4 Output: 5 V / 2 A, 9 V / 2 A, 12 V / 1.5 A USB Type-C 1/2 Input/Output: 5 V / 3 A, 9 V / 3 A, 12 V / 3 A, 15 V / 3 A, 20 V / 5 A
I/O - Charging Station	Input: 5V-3A 9V-2A from podium battery Output: Up to 2.5W for Watch, Up to 3W for Earbuds, magnetic phone charger: Up to 10W (Magsafe and standard Qi compatible)

BATTERY

Camera Battery	Battery: 9,800 mAh (3.8V nominal, ~37.24 Wh) Lithium-ion
Camera Battery Life (Pro / Air)	Orbit Air: 8+ hours
Podium Battery	60,000 mAh (3.7 V nominal, ~222 Wh) Lithium-ion with over-current, short-circuit, over-voltage, over-temperature protection, and PD3.0, PPS3.0, QC3.0, FCP, AFC, SFCP, PPS (Max 100 W) fast charge standards
Podium Battery Life	Actual runtime varies by load (100 W max). Up to ~6 h with 30 W laptop (~3 h @ 60 W, ~2 h @ 85 W). ~4 h with laptop + wireless chargers (~15.5 W). ~12 h charging wireless devices only. Recharges Orbit Pro/Air ≈ 1.4-1.9x.

HARDWARE

Camera Dimensions (LxWxH)	11 in. x 4 in. x 3.5 in. Folded 11 in. x 4 in. x 16 in. Extended
Receiver Dimensions (LxWxH)	3.5 in. x 3.5 in. x .75 in. (Air)
Transmitter (Dock) Dimensions	20.5 in. x 7.5 in. x 3.25 in. (LxWxH)
Weight	Camera: 30.5oz/1.9lbs TX: 47oz/2.93lbs RX: 8oz/0.5lbs Podium: 741oz/46.3lbs Battery: 45oz/2.8lbs
Podium Dimensions (LxWxH min height/max height)	31.5" x 21.5" x 32" - 42"
Security	Key-lockable laptop and battery compartment combo lock option configurable from the factory for an added fee
Operating Temperature	-30° ~ 100°F (-25° ~ 72°C)
Certifications	FCC, CE, RoHS

WHAT'S IN THE BOX

Podium (surface/top, pedestal, base w/ wheels, cup holder, assembly hardware), Tx Hub (includes 3x USB-C cables, mounting rail, assembly hardware), Podium Battery (includes USB-C charging cable), Orbit Trio camera, Orbit Trio receiver (Rx), remote control, receiver mount, AC/DC 12 V Power Adapter w/ barrel connector, 2x USB-C to USB-C Cable, USB-A to USB-B Cable (for USB-Touch connection), HDMI cable, 2x keys for laptop storage compartment

WARRANTY

5 year parts and labor warranty against manufacturers defects. Does not cover battery depreciation or wear from general use.

ALL SPECIFICATIONS ARE PRELIMINARY SUBJECT TO CHANGE

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