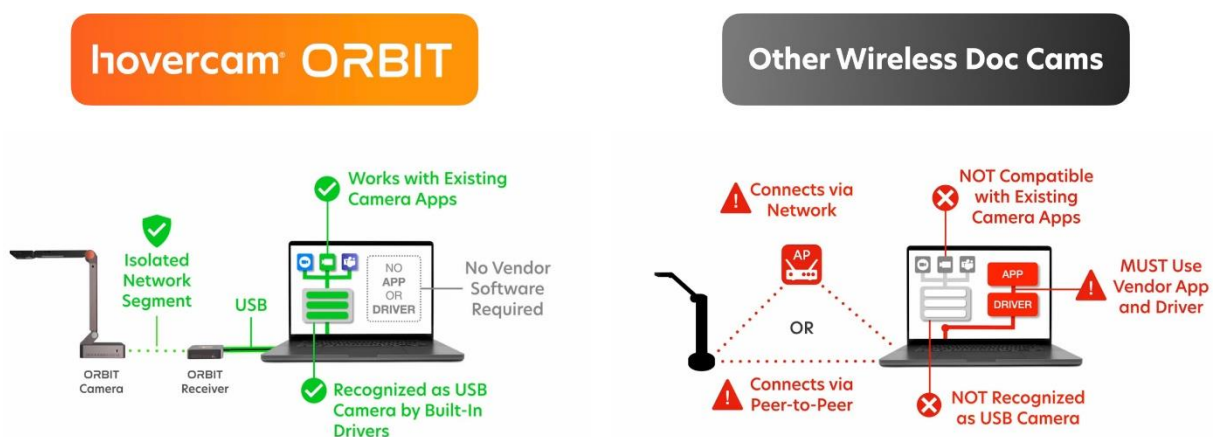




Die drahtlosen HoverCam Orbit Dokumentenkameras sind die beste Wahl für sichere, einfach zu installierende und leistungsstarke Werkzeuge für den Unterricht.

Im Gegensatz zu anderen drahtlosen Dokumentenkameras, die eine komplexe Netzwerkeinrichtung, Treiberinstallation und proprietäre Apps erfordern, bieten die HoverCam Orbit Pro und Orbit Air echte Plug-and-Play-Einfachheit mit universeller USB- und HDMI-Konnektivität. Sie funktionieren sofort mit allen gängigen Betriebssystemen und Kamera-Apps - keine Software, keine Treiber, kein Ärger. Während andere Kameras Schulnetzwerke über unsichere Peer-to-Peer- oder Access-Point-Modi offenlegen, verwendet Orbit eine vollständig isolierte, durchgängig verschlüsselte drahtlose Verbindung, die unübertroffene Sicherheit und Kompatibilität in einer einzigen, nahtlosen Lösung bietet.

#### 1) Verbindungssicherheit:



## 2) Die Geräte-Kompatibilität der ORBIT zu Betriebssystemen und IFP's:



### ORBIT Device Compatibility

- ✓ Works with any computer as a USB camera – no special drivers
- ✓ Works with any HDMI display as an HDMI input (no Miracast)

#### Via USB:

- ✓ PC
- ✓ Mac
- ✓ ChromeBook
- ✓ Interactive Flat Panels (Built-In Camera App)

#### Via HDMI:

- ✓ Interactive Flat Panels
- ✓ TVs
- ✓ Projectors

### OTHERS Device Compatibility

- ✗ Computers require proprietary drivers
- ✗ If supported, HDMI displays require MiraCast (additional hardware)
- ✗ Since other cameras aren't connected as "USB Cameras," they only work inside the dedicated proprietary software provided by the vendor.

## 3) Kompatibilität zu Betriebssystemen:



### ORBIT OS Compatibility

- ✓ Compatible with any OS, without special drivers

[Learn More](#)

- ✓ Windows
- ✓ MacOS
- ✓ ChromeOS
- ✓ Android
- ✓ Any other OS that supports USB (like iOS)

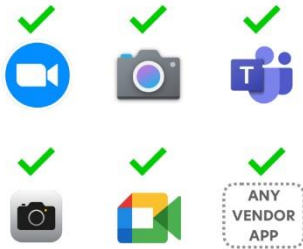
### OTHERS OS Compatibility

- ✗ Only compatible with OS's that have proprietary drivers available

[Learn More](#)

- ✗ Windows: Camera vendor must update drivers with each OS release
- ✗ MacOS: Drivers are few and far between

## 4) Kompatibilität zu Programmen und APP's:



### ORBIT App Compatibility

✓ Compatible as a USB camera with any camera app! Examples:

[Learn More](#)

#### Built-in camera apps:

- ✓ Windows Camera App
- ✓ QuickTime / FaceTime
- ✓ Android Camera App
- ✓ and more!

#### Video Conferencing Apps:

- ✓ Zoom
- ✓ Microsoft Teams
- ✓ Google Meet
- ✓ Cisco WebEx
- ✓ and more!

#### And any other apps that access a USB webcam:

- ✓ LMS / Whiteboard apps that support 3rd-party USB cameras
- ✓ and more!

### OTHERS

#### App Compatibility

✗ NONE – only accessible via vendor's own network app

[Learn More](#)

✗ Since other cameras aren't connected as "USB Cameras," they only work inside the dedicated proprietary software provided by the vendor.

## 5) Einfache Bedienung

### Instructions:

**Step 1: Plug-in Reciever**

**Done ✓**

### Instructions:



### ORBIT Ease of Use

✓ True Plug-n-Play, one-step setup

[Learn More](#)

- ✓ No drivers to download or install
- ✓ No software to download or install
- ✓ Camera/Receiver pre-paired from the factory
- ✓ No passwords to enter
- ✓ No network configuration needed
- ✓ Minimum workload for IT staff
- ✓ Deployment is as easy as dropping each box off in each classroom

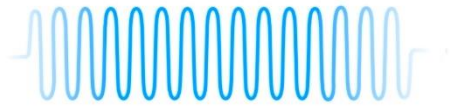
### OTHERS Ease of Use

✗ Not Plug-n-Play, Complex Setup

[Learn More](#)

- ✗ Must install drivers and vendor software
- ✗ Cross-room interference of mis-paired camera-PC connection common during installation
- ✗ Adds significant workload to IT staff

## 6) Drahtlose Technologie:



### ORBIT Wireless Technology

✓ mmWave or Wi-Fi 6

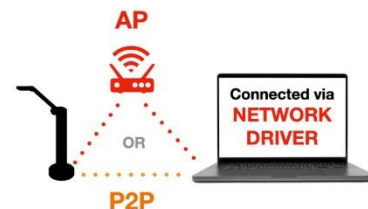
- ✓ Orbit Pro: mmWave / 802.11ad / 60 GHz with up to 10Gbps/room bandwidth / ZERO Wi-Fi Interference
- ✓ Orbit Air: Wi-Fi 6 / 802.11ax / 6 GHz with up to 800Mbps shared bandwidth
- ✓ Recast: Wi-Fi 6 / 802.11ax / 6 GHz with up to 800Mbps shared bandwidth

### OTHERS Wireless Technology

✗ Wi-Fi Only

- ✗ Consumes Wi-Fi bandwidth
- ✗ Can slow down local Wi-Fi network

## 7) Netzwerk-Management:



### ORBIT Network Management

- ✓ NOT on your network
- ✓ Virtually ZERO Impact

Orbit Pro – mmWave is NOT Wi-Fi

- ✓ Completely separate from your network
- ✓ Zero interference with your network
- ✓ Signal isolated within room

Orbit Air – shares your network frequency band but as an isolated network segment

- ✓ Closed loop peer-to-peer Wi-Fi link outside of your network

### OTHERS Network Management

✗ Directly On Your Network

- ✗ Required drivers and app software on your PCs put the camera network directly on your network
- ✗ Peer-to-Peer mode installs a second NIC card but still gets on your network via drivers and apps
- ✗ Could be a nightmare in manageability

## 8) Netzwerk-Sicherheit:



### ORBIT Network Security

- ✓ Highest Level Security
- ✓ Minimal (*near-zero*) attack surface

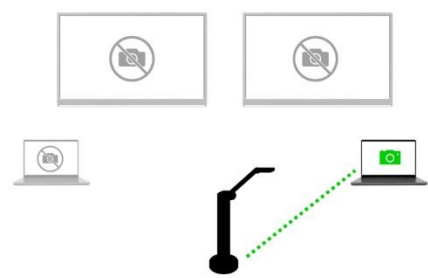
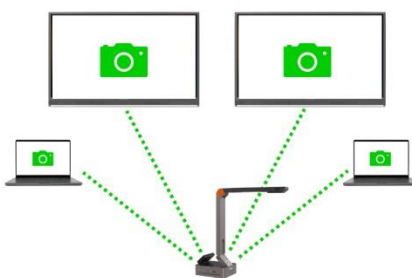
- ✓ Orbit Pro – mmWave is NOT VISIBLE to internet devices
- ✓ Must be present in the room to hack
- ✓ Orbit Air – isolated network segment
- ✓ USB or HDMI link serves as a fire gap
- ✓ Uses built-in system generic drivers which is OS sanctified
- ✓ Leverage layers of system security for USB devices
- ✓ Closed loop network segments
- ✓ End-to-end strong encryption with unique key pair in factory running on powerful computing hardware
- ✓ Locked down devices with all unnecessary OS services removed

### OTHERS Network Security

- ✗ High Security Risk
- ✗ Large Attack Surface

- ✗ Virtually all others require a global **DEFAULT SSID PASSCODE** – some vendors even publish passcodes on their websites
- ✗ The 2016 **Mirai Botnet DDoS** attack and the 2017 Casino Hack both exploited "smart" devices like network-attached cameras, thermostats, video doorbells, etc.
- ✗ Vendor software memory overflow or invalid input verification can be exploited too
- ✗ Any hack against the **camera network** (which is **on your network**) will directly breach your entire Wi-Fi network
- ✗ Vendor's embedded hardware often lacks computing power to implement strong encryption
- ✗ Outdated firmware leaves numerous always-on network-connected cameras vulnerable to hackers who scour the web

## 9) ORBIT-Skalierbarkeit:



### ORBIT Scalability

- ✓ Highly Flexible Casting Options

- ✓ 1x Orbit casts to 1–4 Displays
- ✓ 1x Orbit + 1x Laptop casts to 1–4 Displays

### OTHERS Scalability

- ✗ Highly Limited Casting Options

- ✗ 1x camera to 1x computer
- ✗ 1x camera to 1x Miracast dongle + Display (if supported)

## hovercam® ORBIT

## Other Wireless Doc Cams

### 10) Ausgabe-Ports:



#### ORBIT Output Ports

✓ HDMI or USB



#### OTHERS Output Ports

✗ Link to network driver  
or  
✗ Link to a Miracast dongle

### 11) Stabilität zu OS-Upgrades, Versions-Upgrades und Hardware-Änderungen:



#### ORBIT Stability and Driver Conflicts

✓ Immune to OS updates, driver conflicts, version upgrades, or even hardware changes



#### OTHERS Stability and Driver Conflicts

✗ Prone to OS updates, driver conflicts, version upgrades, etc.

### Zusammenfassung:

Category	ORBIT	OTHERS
Device Compatibility	✓ Works with all devices natively	✗ Limited to devices with driver availability
OS Compatibility	✓ Works across all OS platforms	✗ OS-limited and driver-dependent
App Compatibility	✓ Works in any app that supports USB cameras	✗ Vendor app only
Ease of Use	✓ Plug-n-play, no pairing, no passwords	✗ Manual pairing, software installs
Wireless Technology	✓ mmWave / Wi-Fi 6, isolated and fast	✗ Wi-Fi only, shares bandwidth
Network Management	✓ Not on your network	✗ On your network via drivers/apps
Network Security	✓ End-to-end encrypted, closed loop	✗ Default SSID passcodes, vulnerable
Scalability	✓ 1 camera to 1-4 displays	✗ 1 camera to 1 output max
Output Ports	✓ HDMI or USB	✗ Network-only or Miracast dongle
Stability & Drivers	✓ Immune to OS/driver changes	✗ Prone to breakage from updates