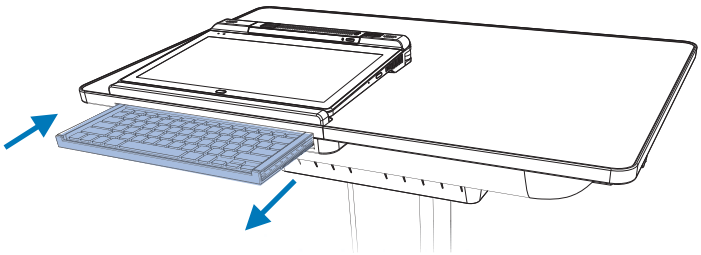
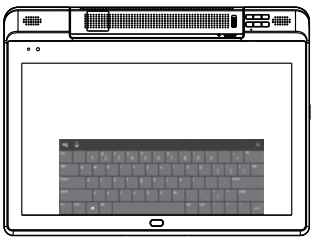
## Using the Pop-Out Keyboard

The Pilot X tablet will connect to the podium's **Pop-Out Keyboard** when docked on the **Magnetic Tablet Dock**. To deploy the keyboard, simply push-in on its front edge and it will automatically extend. To retract, gently push it back into the unit until it locks into place.



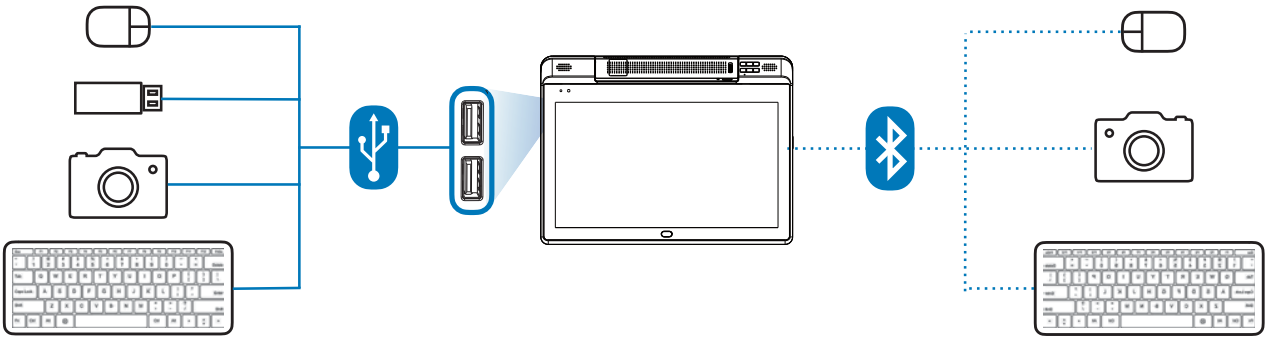
## Using the Digital Keyboard

When using the tablet independent of the **Magnetic Tablet Dock**, the digital keyboard must be used for any typing input. To access the digital keyboard, simply click on the digital keyboard icon on the right side of the Windows® taskbar. If the icon is missing, you'll need to access typing settings to enable it (Windows® Settings → Devices → Typing). For more information on the digital keyboard, visit the Windows® 10 Support page at www.support.microsoft.com/windows.



## Using Third Party Accessories

Most USB third party accessories that work with standard PC's will work with the Pilot X. This includes mice, keyboards, flash-drives, etc. Plug the accessory into one of the two **USB 3.0 Type-A** ports located on the left side of the **Pilot X Tablet**. Bluetooth devices, such as a bluetooth mouse, can also be connected to the Pilot X. For help connecting **bluetooth** enabled devices, visit the Windows® 10 Support Page at www.support.microsoft.com/windows.



© Copyright HoverCam® 2019

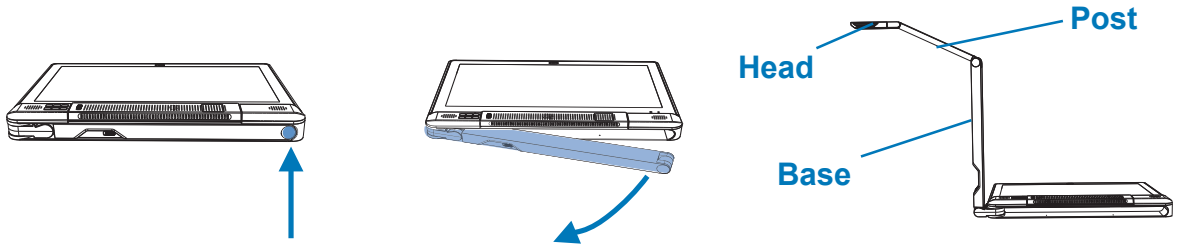
# Document Camera

The Pilot X tablet comes equipped with a **Fold-Out Document Camera**. The document camera can be used as a lesson recorder, scanner, webcam, live annotation tool, microscope, show-and-tell device, audio recorder, video logger, and much more. For optimal functionality, use the included Flex 11 or ClassFusion softwares (page 18) to operate the document camera. Camera specifications are as follows:

| | | | |
|---|---|---|---|
| **Camera Sensor** | 13.0 MegaPixel BSI CMOS | **Zoom** | 480x (6x ASR, 8x Digital, 10x Mechanical) |
| **Video Resolution** | 4K@30FPS, 1080p @60FPS, 720p @120FPS | **Audio** | Built-in High-Fidelity Microphone |
| **Image Resolution** | 4224x3156 (13 MP) | **Focus** | AutoFocus, Selective Focus, Focus Lock |
| **Scan Size** | 128GB SSD | **Lighting** | Integrated LED |

## Deploying

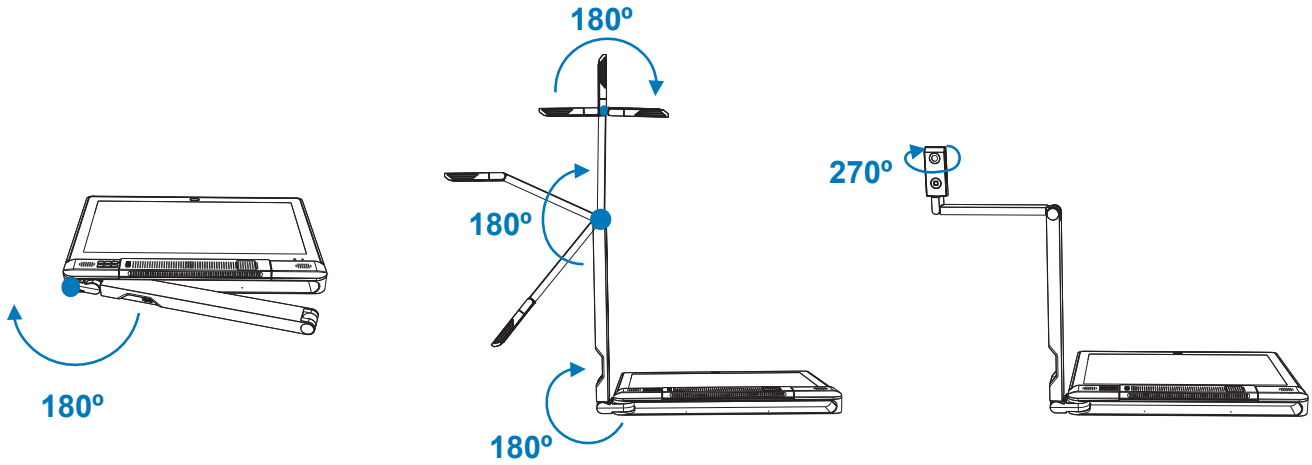
To deploy the document camera, push-down on the **Document Camera Release Button** (a silver circular hinge found on top of the tablet), and the camera arm should release with a “click”. The camera arm can now be rotated out of its recess. Once deployed, the system will detect that the camera is in use, and it will be discoverable as a USB device. The camera arm has three moving sections: the **Post**, **Head** and **Base**.




To close the document camera, simply fold the head and post back into the base, and rotate the base back into the recess until it “clicks” into place. The system will know that the camera has been folded away, and disconnect it to conserve battery.

## Positioning

Once deployed, the base can pivot outwards 180º, and can tilt up or down 180º. The post folds out of the base, and adds an additional 180º range of upward/downward tilt. The head also tilts up or down 180º, and can pivot 270º. When on a flat surface, the camera’s viewable area can easily show full letter and legal sized pages, and can even accommodate an A3 size when the camera arm is positioned properly.




© Copyright HoverCam® 2019

## Software

The tablet comes with two document software programs preinstalled: ClassFusion and Flex 11. Notice: ClassFusion may not be installed on all models. Contact HoverCam Technical support for more information.

ClassFusion is comprehensive learning management ecosystem that includes an interactive whiteboard, lesson building and presentation tools (including document camera software), a large lesson plan catalog, full day lesson recording, formative assessment tools, and much more.

Flex 11 is a dedicated document camera software for live lesson presentation and annotation, video recording, still image capture, document scanning, digital whiteboarding and much more.

For the full ClassFusion and Flex 11 manuals, visit: https://thehovercam.desk.com/customer/en/portal/topics/1098817-user-s-manuals-and-quick-start-guides/articles

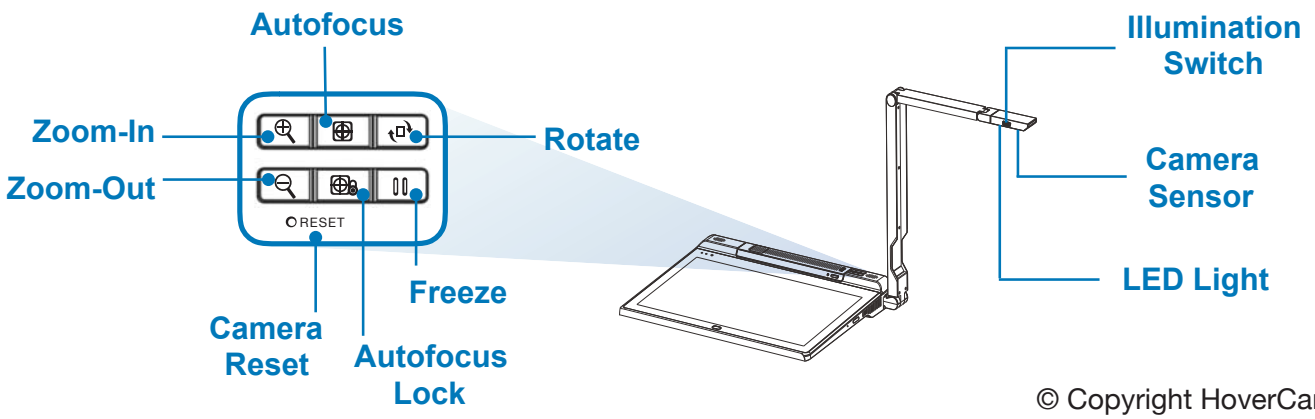
## Operating

Operating the document camera is easy with the onboard **Document Camera Controls**, found on the top right corner of the **Pilot X Tablet:**

- **Zoom-In**: Zooms in on the camera's view area.
- **Zoom-Out**: Zooms- ut of the camera's view area.
- **Autofocus**: Enables automatic focusing on the dominate object in the camera's view area. Periodically readjusts focal point to keep the dominate object in focus.
- **Autofocus Lock**: Fixes the focal point on the most dominate object in the camera's view area, and retains that focal point until deactivated.
- **Camera Reset**: Resets the camera's main board when an error occurs. Use a small object, such as the tip of a paper clip.
- **Rotate**: Rotates the camera's image 180°.
- **Freeze**: Freezes/unfreezes the camera's image.

Please note that the **Document Camera Controls** may not be compatible with 3rd party softwares, and are designed to work best with the included **ClassFusion** and **Flex 11** software programs.

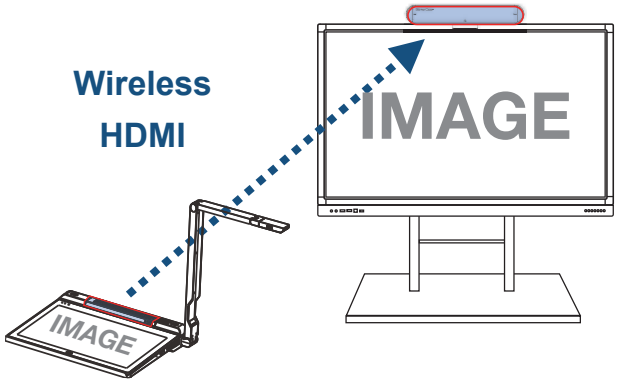
The document camera also features an **LED Light** for added illumination in darker areas. Toggle the **Illumination Switch** found on the **Camera Head** to activate or deactivate the LED Light.

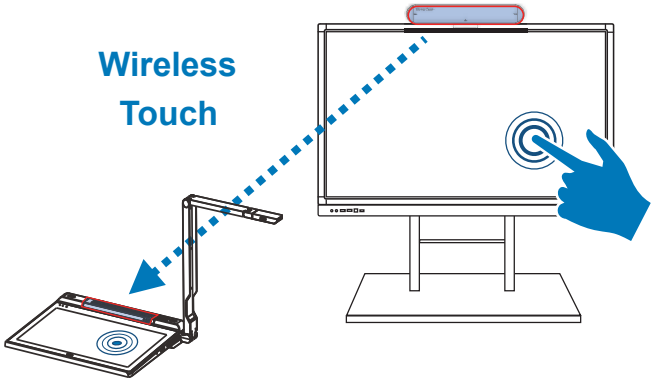



© Copyright HoverCam® 2019

## HoverCast Wireless HDMI

Pilot X comes equipped with state-of-the-art wireless interactive casting technology called HoverCast. Using the **HoverCast Receiver**, Pilot X is capable of casting a high definition HDMI image to any interactive flat panel, projector or other output display with an HDMI input. Unlike other wireless casting technologies, HoverCast has virtually no loss in image clarity and no noticeable delay. It does not use a WiFi network or interfere with local WiFi networks.
When used with a **Touch-USB** enabled display (supported by most “interactive” panels and projectors), HoverCast also sends the user’s touch inputs from the display back to the tablet. This allows the user to control their tablet from the display.

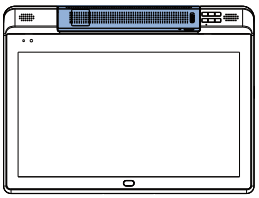


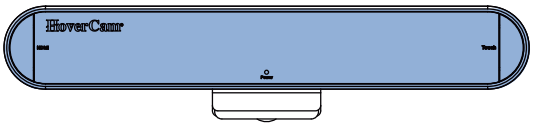

## How Does HoverCast Work?

HoverCast is composed of two main components: the **HoverCast Wireless Antenna** (preinstalled on the **Pilot X Tablet**) and the **HoverCast Wireless Receiver** (an accessory to be plugged into the intended display). The Antenna and Receiver are pre-paired one-to-one out of the box, so they will connect automatically when set-up properly. There is no software to install or passwords to enter.

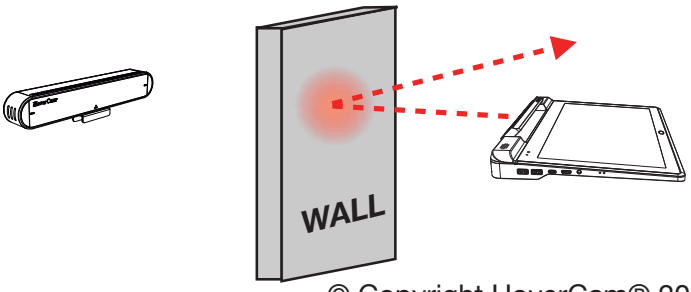
**HoverCast Wireless Antenna**



**HoverCast Wireless Receiver**



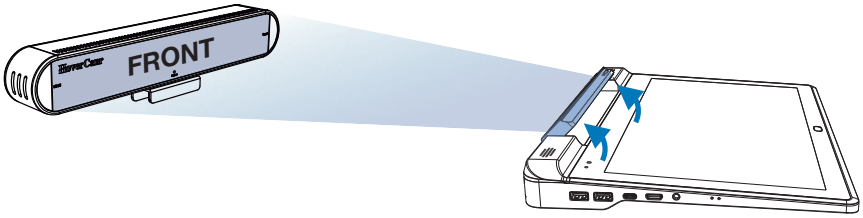

The HoverCast wireless signal travels similarly to a beam of light. Light doesn’t pass through walls, so neither will the HoverCast signal. **HoverCast will only work when the HoverCast Wireless Antenna and HoverCast Wireless Receiver are used in the same room.**



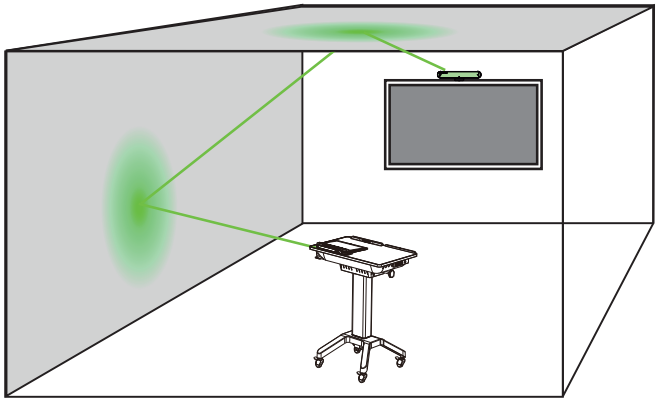

© Copyright HoverCam® 2019

# Connecting to a Display - HoverCast

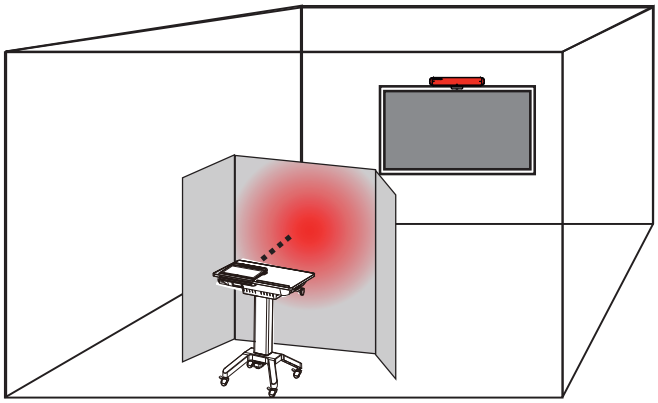
HoverCast works best when the tablet's **HoverCast Wireless Antenna** is *directly facing* the **HoverCast Wireless Receiver** (which will be placed near the output display). For boosted reception, you can angle the tablet's **HoverCast Wireless Antenna** forwards by 20º. Increasing the tilt angle of the radio signal can potentially increase signal strength. When unobstructed, the tested range for the HoverCast receiver is over 100 feet.




The tablet's **HoverCast Wireless Antenna** and the included **HoverCast Wireless Receiver** each contain an array of antennas facing multiple directions to increase the likelihood of a successful connection. This allows the signal to occasionally bounce off of walls and eventually form a steady signal. However, **completely blocking line of sight between the antenna and receiver will interrupt the signal.**



**Do not position any large solid objects between the antenna and receiver that can completely cut off transmission.** Do not stand too closely in front of the antenna or receiver. Do not crowd or completely block the antenna or receiver with your hands, books, or other objects that can completely cut off line of sight.



**For the do's and don'ts of positioning the HoverCast system, see the HoverCast Positioning Diagram on pages 23, 24 and 25**

© Copyright HoverCam® 2019

## HoverCast Set-Up

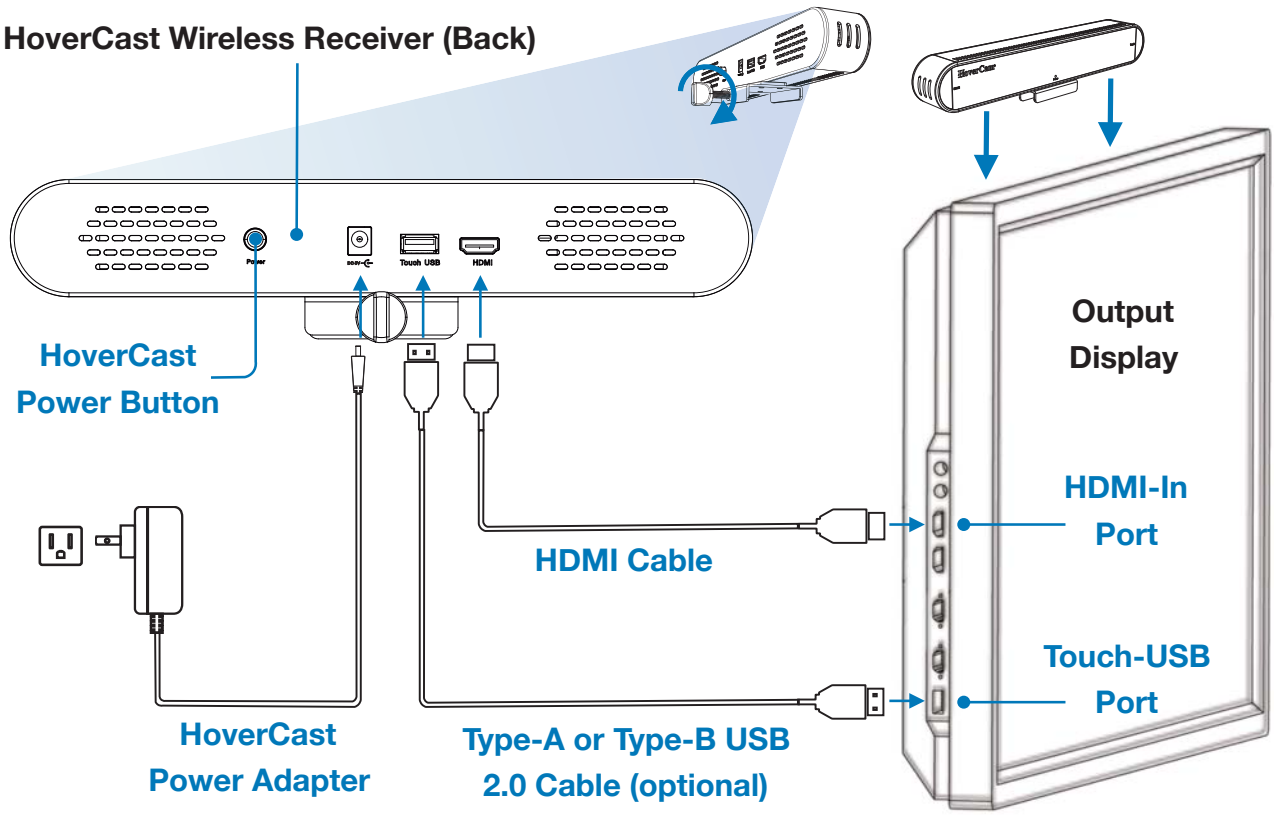
While there is no software to set up or passwords to enter, the right steps must be followed in the set-up process to enjoy the benefits of wireless HoverCast technology.

1 **Install the Receiver**: Install the **HoverCast Wireless Receiver** on or near the intended output display by hand-tightening the retention nut clockwise until the the unit is secure. The receiver can also be placed near a projector, AV console, or other output interface, as long as it retains line-of-sight of the tablet's **HoverCast Wireless Antenna.** For a visual reference, please see the **HoverCast Positioning Diagram** on pages 23, 24 and 25.

2 **Connect HDMI:** Find an available HDMI-In port on the output display's interface panel, and connect the **HoverCast Wireless Receiver** via the included **HDMI Cable.**

3 **Connect Touch-USB (optional)**: If you are using a Touch-USB enabled display, find an available Touch-USB port on the output display's interface panel, and connect it to the **HoverCast Wireless Receiver** via the included **Type-A or Type B USB 2.0 Cable**, depending on the panel's interface type. If output display's interface panel has multiple Touch-USB inputs, be sure to use the Touch-USB port number that corresponds with the HDMI-In number that is being used. (Example: If you are using the *HDMI 2* input, also use the *Touch-USB 2* input).

4 **Supply Power to the Receiver:** Locate an available A/C wall outlet, and connect the **HoverCast Wireless Receiver** with the included **HoverCast Power Adapter**. When properly powered, the receiver will display a single red solid light.



5 **Power-On the System:** Switch on the **Pilot X Tablet** via the **Tablet Sleep/Wake Button** and switch on your output display, making sure the corresponding HDMI input is selected. Next, power on the tablet's **HoverCast Wireless Antenna** via the **HoverCast On/Off Switch**. Finally, power on the **HoverCast Wireless Receiver** by pressing the power button on the back of the receiver. The **HoverCast Wireless Receiver**'s indicator lights will begin a rapid flashing sequence until a connection is formed. When all indicator lights are solid blue, pairing is complete and the system is ready for wireless use.

## HoverCast FAQ's

- *Do I need to turn off the **HoverCast Wireless Receiver** when I'm done using it?*
  No. The **HoverCast Wireless Receiver** is equipped with a power save mode, and will automatically go to sleep when it looses a signal.

- My HoverCast system isn't pairing. Can I pair it myself?
  The HoverCast system is pre-paired from the factory. Avoid pressing the **HoverCast Reset Button** or the **HDMI** / **Touch Reset Buttons,** as this will unpair the units. Please contact HoverCam Technical Support for HoverCast troubleshooting.

- *Does HoverCast require WiFi?*
  No. HoverCast doesn't require a WiFi or internet connection to function. However, bluetooth technology is used for wireless touch-USB.

- *Can I turn off my **Pilot X Tablet**'s Bluetooth?*
  Wireless USB-Touch connects via a bluetooth network. Do not turn-off the **Pilot X Tablet**'s bluetooth functionality, or remove "CS-MTouch" device from the bluetooth connections list.

- *Do I need an interactive display to use HoverCast?*
  No. Simply skip Step 4 for wireless HDMI-only operation.

- *Is my interactive display compatible with wireless USB-Touch?*
  HoverCast supports wireless USB-Touch with many (but not all) interactive flat panels and interactive projectors. Contact HoverCam Technical Support with compatibility questions.

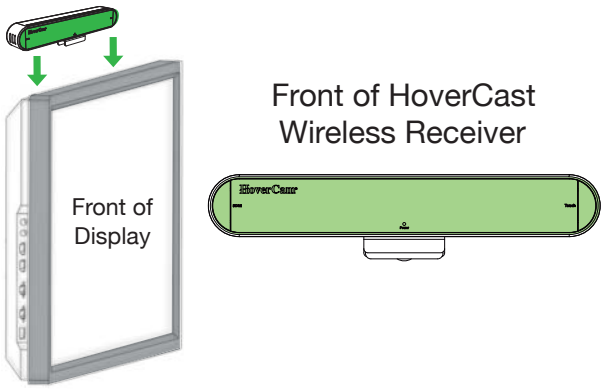
## HoverCast Troubleshooting

If you are having issues connecting the HoverCast system, please contact HoverCam Technical Support:

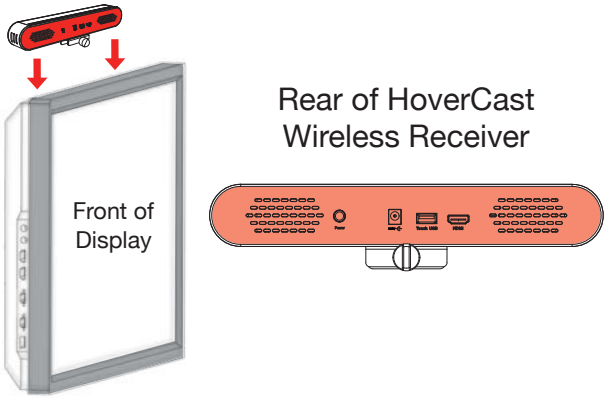
**HoverCam Technical Support**
support@thehovercam.com
+1 (866) 201-2056

© Copyright HoverCam® 2019

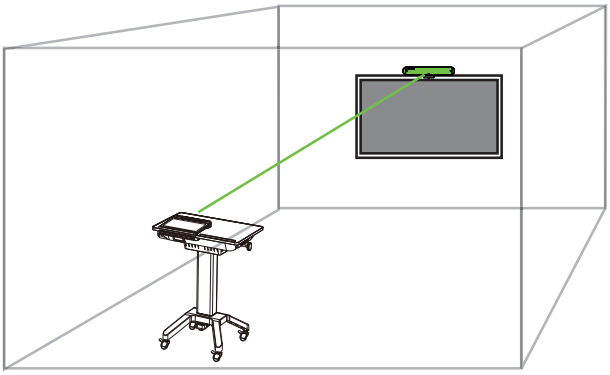
The HoverCast Wireless Receiver's front must face outwards, towards the receiver and away from any walls or cavities.



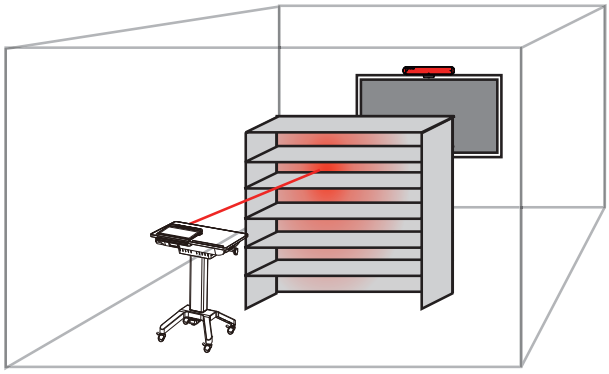

Make sure the HoverCast Wireless receiver is not mounted backwards. The front of the receiver should face wherever the tablet will be used most frequently.



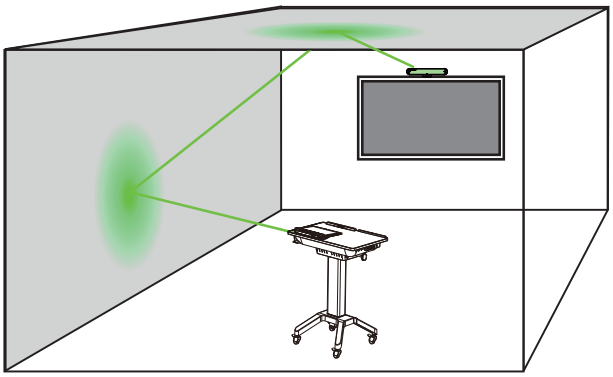

The HoverCast signal is strongest when the antenna and receiver maintain line-of-sight. The maximum tested range is 100 feet.



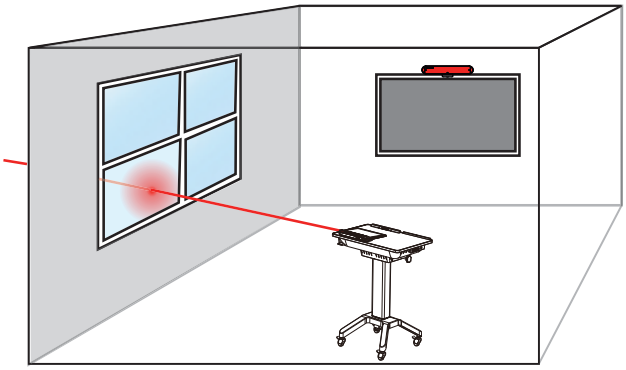
The HoverCast signal can be blocked by obstructing objects. Make sure the antenna and receiver maintain line-of-sight.



In some environments (like enclosed rooms with little obstructions), the antenna can face away from the receiver and the HoverCast signal can bounce off walls and connect to the HoverCast receiver.

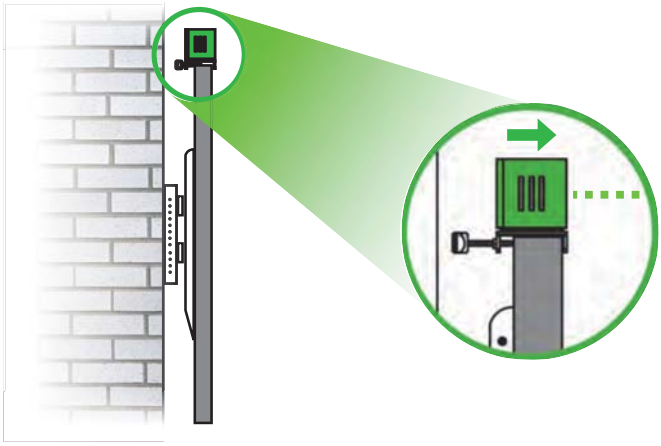


The HoverCast signal can pass through windows. Avoid facing the HoverCast antenna towards windows, and opt for line-of-sight positioning.

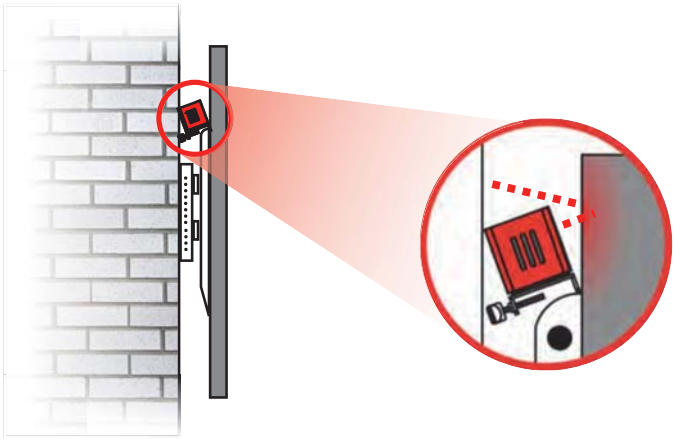


© Copyright HoverCam® 2019

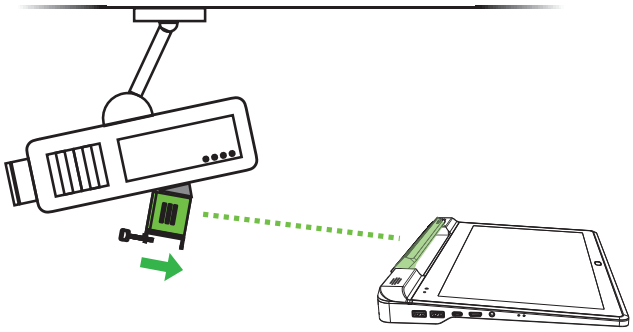
Be sure to mount the HoverCast Wireless Receiver facing away from walls, and in plain sight.



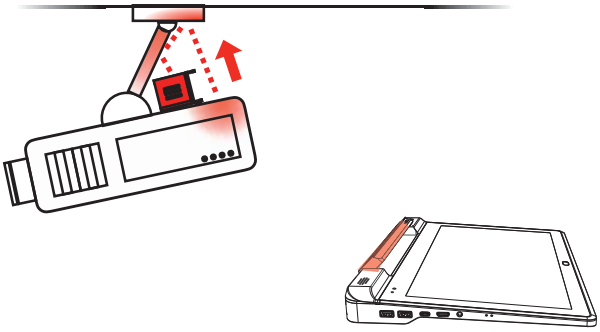
Do not tuck the HoverCast Wireless Receiver behind panels or in other enclosed spaces. The receiver should be mounted high and within line-of-sight of the antenna.



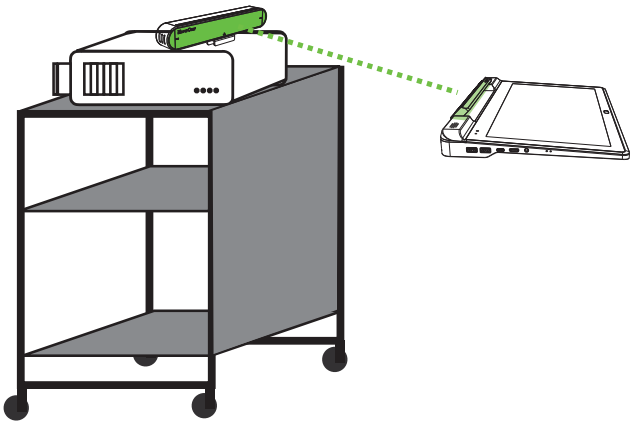
When using with a ceiling-mounted projector, make sure the front of the HoverCast Wireless Receiver is directed downward towards the antenna. Use zip-ties or adhesive to secure the receiver to the underside of mounted projectors.



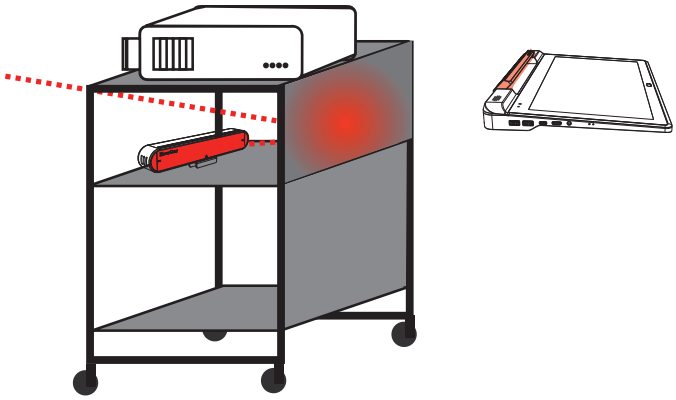
Do not place the HoverCast Wireless Receiver facing towards the ceiling when mounting on a projector. Adjust the receiver placement so that it faces downward.



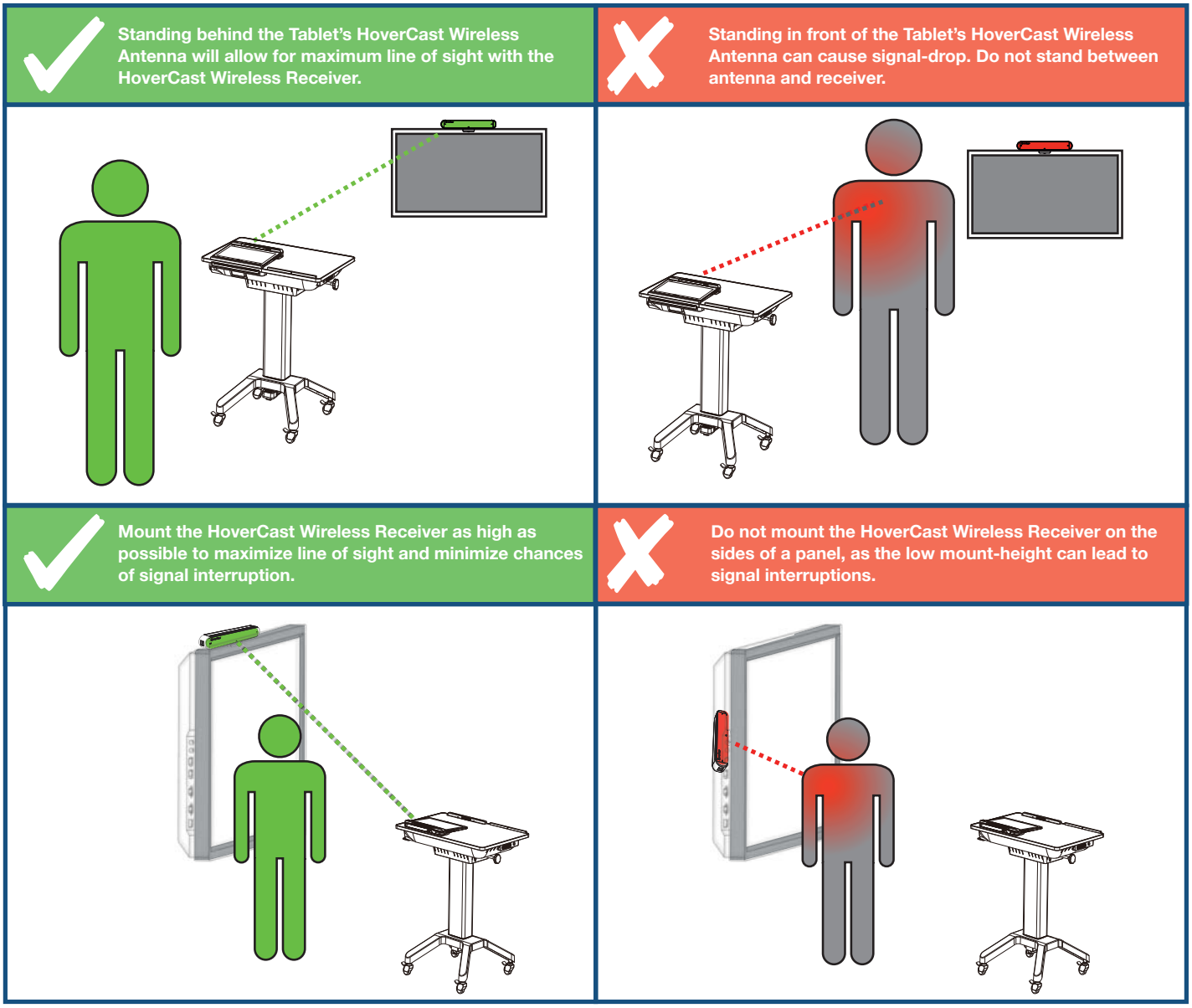
While placing the HoverCast Wireless Receiver in low places isn't ideal, it still must be placed within line-of -sight of the antenna when doing so.



Do not place the HoverCast Wireless Receiver in enclosed spaces like cabinets or walled A/V carts. Always make sure the receiver is placed as high as possible so that it maintains uninterrupted line of sight with the antenna.



© Copyright HoverCam® 2019




## HoverCast Troubleshooting

If you are having issues connecting the HoverCast system, please contact HoverCam Technical Support:

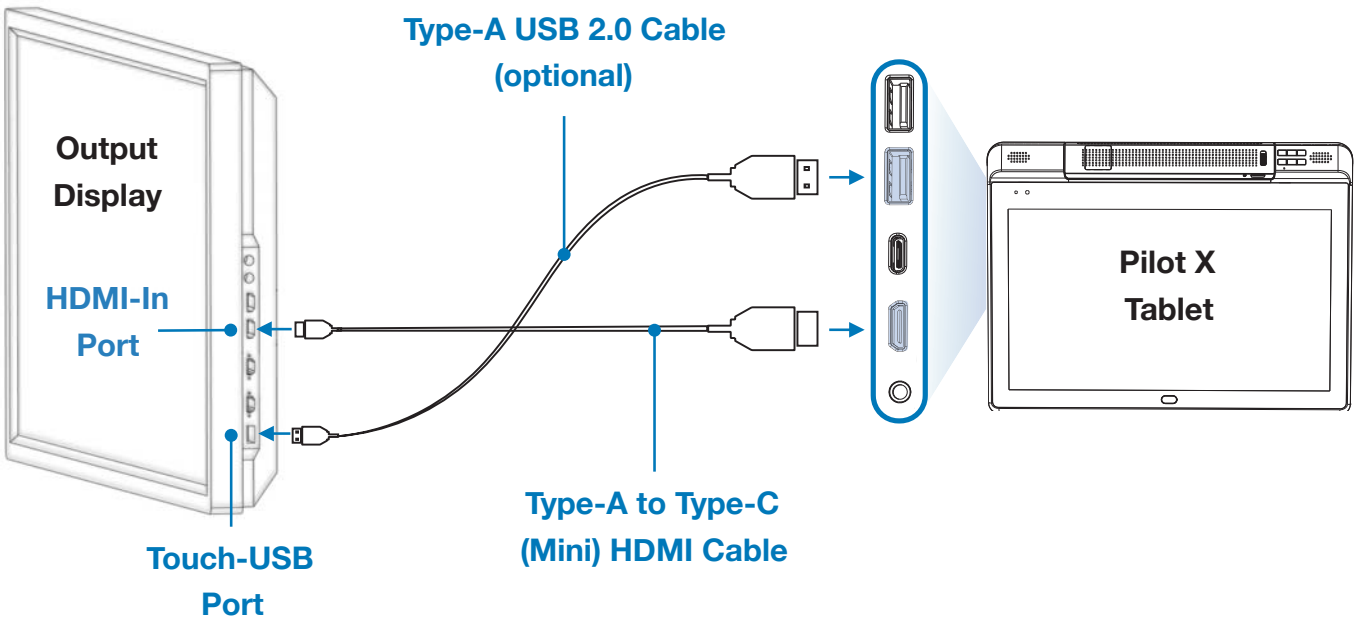
**HoverCam Technical Support**
support@thehovercam.com
+1 (866) 201-2056

© Copyright HoverCam® 2019

# Connecting to A Display - Wired

The **Pilot X Tablet** can output to an external display using a Type-A to Type-C (Mini) HDMI cable (not included). Simply connect the display to the Pilot X Tablet's **Type-C (Mini) HDMI-Out** on the left side of the Pilot with an HDCP-compatible Type-C (Mini) to Type-A HDMI cable.

When used with an interactive display, a USB 2.0 Type A cable can be used to connect the **Pilot X Tablet** to an interactive display's Touch-USB port.

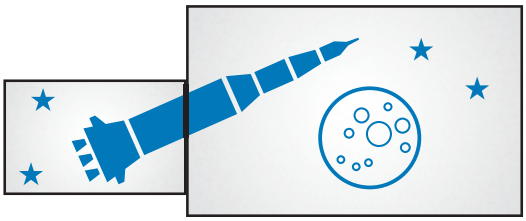



## Display Mode

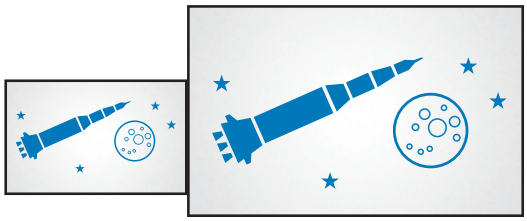
The **Pilot X Tablet**'s default output display mode is "extended display". In extended display mode, the external display acts as an extension to the tablet's main display, showing only the windows placed in the extended area. This area can be oriented to the right, left, top, or bottom of the tablet's main display area.

You can easily switch to "duplicate display" mode, in which the external display will show the exact mirror image of what appears on the tablet's screen. To set the tablet to duplicate display mode, switch the display preferences in the Windows® display settings menu.

For detailed instructions on switching display modes, consult the Windows® 10 manual: www.windows10-guide.com



Extended Display Mode



Duplicate Display Mode

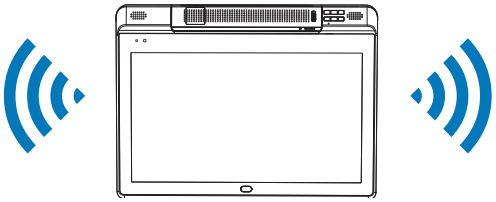
© Copyright HoverCam® 2019

# Audio Output

There are several options for outputting audio from the **Pilot X Tablet**:

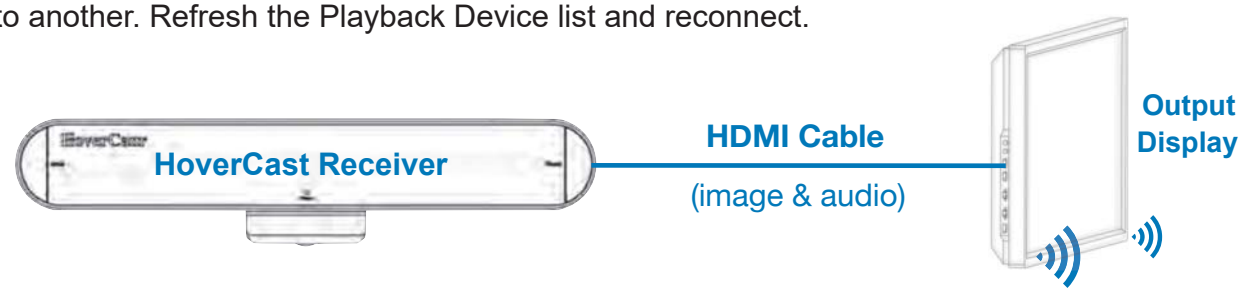
## **Built-In Speakers** (default)

By default, the **Pilot X Tablet** outputs audio through its internal speakers. In the Windows® playback device list, the tablet's internal speakers should be listed as "Realtek High Definition Audio."



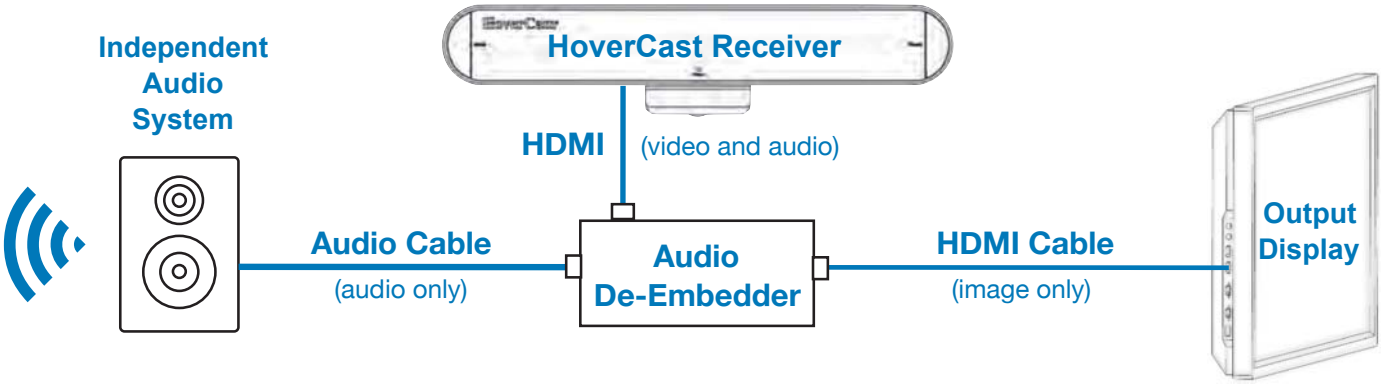
## **Output Display's Speakers**

When using HoverCast or the HDMI-Out to connect to an external display with speakers, audio can output through the external display's speakers. Simply connect HoverCast and select the display audio output source from the Windows® playback device list. If the output source does not appear in the list of Playback Devices, unplug the HoverCast receiver from its current HDMI port and re-plug into another. Refresh the Playback Device list and reconnect.




## **HDMI Audio De-Embedder** (not included)

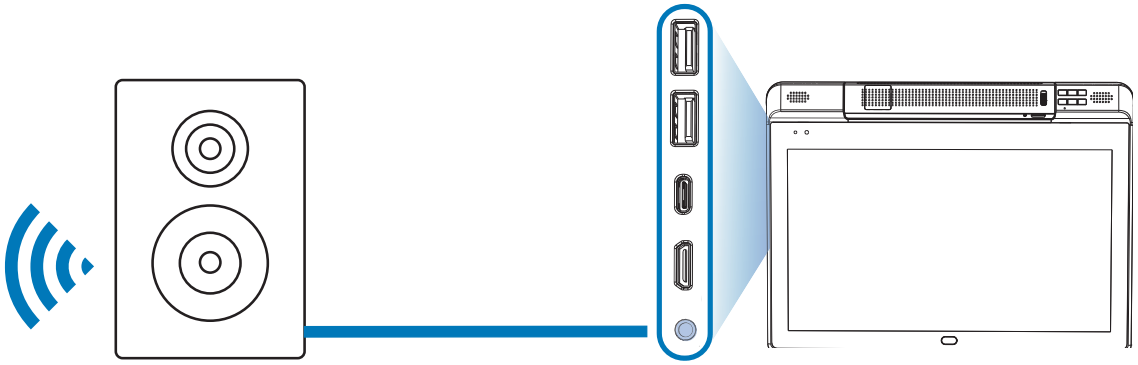
For use with a separate audio system, the audio signal can be separated from the HDMI signal by using a HDMI audio de-embedder and connecting it to the HDMI-Out on the HoverCast or Pilot X. However, many flat panel displays contain audio de-embedding technology, allowing the use of the panel's 3.5mm audio-out to output to an external audio system.




© Copyright HoverCam® 2019

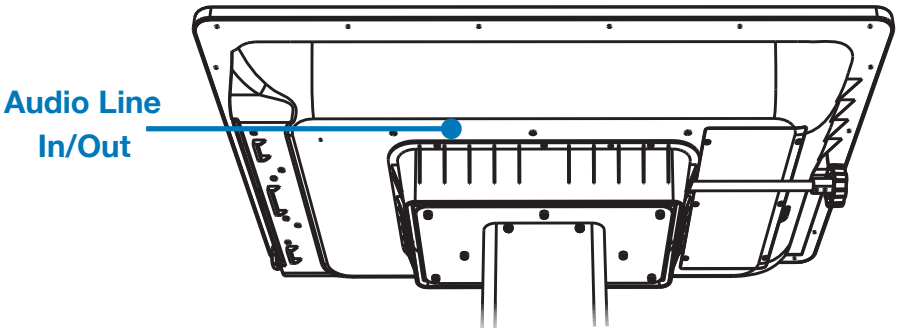
## Tablet Audio Line In/Out (wired)

The **Pilot X Tablet** features an **Audio Line In/Out** that can be found on the left side of the tablet. Simply connect the **Pilot X Tablet** to an external audio system with a 3.5mm auxiliary cable.



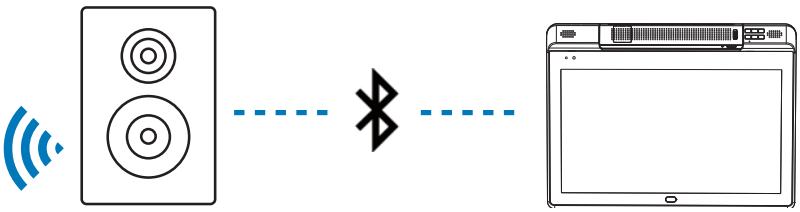
## Podium Audio Line In/Out (wired)

The **Pilot X Podium** also features a 3.5mm **Audio Line In/Out** that can be used when the **Pilot X Tablet** is placed on the **Magnetic Tablet Dock.** The **Podium Audio Line In/Out** can be found on the underside of the podium, and is useful when using a mounted soundbar. Simply connect the **Pilot X Podium** to an external audio system with a 3.5mm auxiliary cable or adapter.




## Bluetooth

The **Pilot X Tablet** contains a Bluetooth module that can wirelessly output to a wide variety of Bluetooth audio devices. Consult the Windows® 10 manual to learn more about connecting and configuring Bluetooth audio devices: www.windows10-guide.com



© Copyright HoverCam® 2019

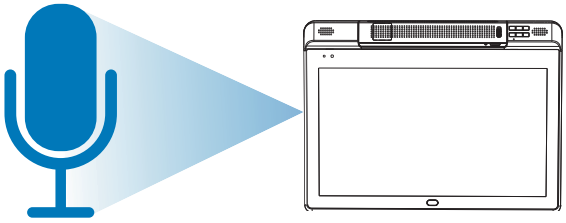
# Audio Input

There are several options for inputting audio to the **Pilot X Tablet**:

## **Built-In Microphone** (default)

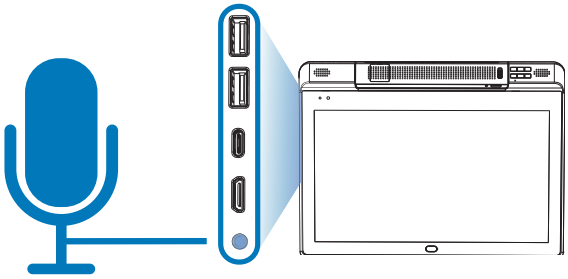
The **Pilot X Tablet** features two internal microphones (left and right oriented) that are set as the default audio-input source. They will appear as “Realtek High Definition Audio” as an import source within Window’s settings.

For detailed instructions on connecting and selecting audio input devices, refer to the full Windows® manual: www.windows10-guide.com



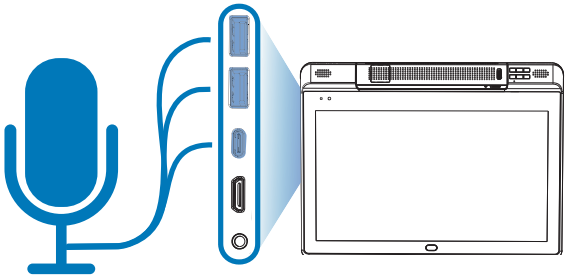
## Auxiliary Microphone

The **Pilot X Tablet** features an **Audio Line In/Out** that can be found on the left side of the tablet. Simply connect the **Pilot X Tablet** to an external microphone or other audio input with a 3.5mm Auxiliary cable, and select this new source as the audio input.



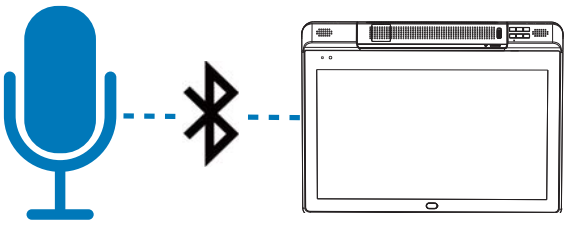
## USB Microphone

A USB microphone can be used as an audio input when connected via one of the **Pilot X Tablet**'s 2x **USB 3.0 Type-A Port**s or the single **USB 3.0 Type-C Port.** Once the USB microphone is connected, select this new source as the audio input.



## Bluetooth Microphone

A bluetooth microphone can be used as an audio input when connected from the bluetooth device menu within Windows® 10 settings. Consult the Windows® 10 manual to learn more about connecting and configuring Bluetooth audio devices: www.windows10-guide.com



© Copyright HoverCam® 2019

# Specifications

## Internal PC

| | |
|---|---|
| Operating System | Microsoft® Windows® 10 64-bit (license not included) |
| Processor | Intel® Core™ M3-7Y30 |
| Display Adapter | Intel® HD Graphics 615 |
| Storage | 128GB SSD |
| Memory | 8GB DDR RAM |

**Preliminary Notice**

**All features and specifications are subject to change without notice.**

Occasionally the manufacturer will select alternate suppliers leading to a potential change in parts and their performance, materiality, mechanics, and other variables, typically leading to increases in performance for the benefit of the user.

## Touch Display

| | |
|---|---|
| Display | 13.3 inch LCD |
| Touch Panel | 10-point capacitive multi-touch |
| Stylus Compatibility | active stylus, passive stylus, No. 2 graphite pencil |

## Connectivity

| | |
|---|---|
| Wireless HDMI | 1080p@30fps, 60ft range (line of sight) |
| Ports | USB 3.0 Type-A (2x), USB 3.0 Type-C, Mini HDMI-Out, Audio Line In/Out |
| Blueooth | 4.2 |
| WiFi | Module Support 802.11B/G/N/AC |

## Document Camera

| | |
|---|---|
| Camera Sensor | 13.0 MegaPixel BSI CMOS |
| Video Resolution | 4K@30FPS, 1080@60FPS, 720@120FPS (WarpSpeed Video) |
| Image Resolution | 4224x3156 (13 MegaPixels) |
| Zoom | 480x Total (6x Adaptive Sensor Resolution zoom, 8x interpolated digital, 10x mechanical) |
| View Area | A3, 11x17, US Letter and Legal |

## Power

| | |
|---|---|
| Power Supply | 100V - 240V, 50Hz - 60Hz |
| Maximum Watt | ≤ 310W |
| Tablet Battery | 7.4V 10000mAh Li-Ion. 74WH |
| Podium Battery | 12.6V 12000mAh Li-ion |

## Physical Design

| | |
|---|---|
| Tablet Storage | Tablet Bay for security, storage, and charging (3-digit padlock) |
| Keyboard and Trackpad | Yes, U.S. |
| Button Controls | Power on/off, menu, fingerprint scanner, HoverCast controls (on/off, reset), document camera controls (zoom-in/out, autofocus lock/unlock, rotate, freeze, illumination on/off, reset) |
| Podium Height Range | 32 inches - 46 inches |
| Tilt Angle Range | 0º - 20º |
| Weight | 89.5 lbs |

© Copyright HoverCam® 2019

## Cleaning and Care

When cleaning the HoverCam Pilot X, extra care should be given to the touch screen and external components. Glass cleaners are not advised as the moisture may damage or adversely affect touch sensitivity or component functionality. Do not directly spray any liquids (chemicals or water) onto the product. Instead, apply cleaning compounds on a dry microfiber cloth and gently clean sealed surfaces while the unit is powered off and unplugged. Avoid getting any moisture in areas where there are crevices or direct openings to the internals.

## Accessing Internals

Opening the Pilot X tablet or podium's encasement will void any standing warranty. If you would like to access the internals to service or swap components, we strongly suggest first contacting HoverCam support.

## Service and Support

Support, assembly, set-up, and troubleshooting videos are available online at the HoverCam website: www.hovercam.com/support/training-videos

For technical support and servicing requests, please contact HoverCam Technical Support:

**HoverCam Technical Support**
support@thehovercam.com
+1 (866) 201-2056

© Copyright HoverCam® 2019

**Limited Warranty:** Subject to the terms and conditions set forth below, HoverCam (“HoverCam”) warrants the HoverCam Pilot X – Wireless Digital Teaching Station (“Product”), you have purchased from HoverCam or from a HoverCam authorized reseller/retailer to be free from defects in materials or workmanship under normal consumer use during the warranty period in the continental United States. If the Product becomes defective during the warranty period HoverCam will, at its option, repair or replace the Product. HoverCam may use new or reconditioned components or parts to repair the Product, or replace the Product with a new or reconditioned Product of the same or functionally equivalent model.

**HoverCam Pilot X – Wireless Digital Teaching Station Standard Limited Warranty:** Subject to the exclusions set forth below:

- One (1) year from the purchase date by the original retail purchaser (the “Customer”) (except for refurbished units which have a separate warranty policy) covers parts and labor.
- Return Merchandise Authorization Shipping: HoverCam will pay shipping freight to HoverCam or a HoverCam Authorized Service Provider and HoverCam will pay shipping freight to the Customer during the warranty period.
- DOA (Dead On Arrival): Must be reported within thirty (30) days of purchase. An RMA number must be issued in order to process the replacement. HoverCam will replace the DOA unit with a brand new replacement. HoverCam will cover the freight charges both ways.
- Shipping Damages: All shipping damages must be reported within seven (7) business days upon receipt of the Product. HoverCam is not responsible for the shipping damages reported after such period.
- Repaired or Replaced Parts and Products: All repaired or replaced parts or products shall be warranted only for the remainder of the original warranty period specified above.

**Obtaining Depot Warranty Service**

If you purchased a HoverCam product in the continental United States, Hawaii, and Alaska, you are entitled to depot repair service during the warranty period subject to the following terms and conditions:

1. Depot warranty service is available for all Products purchased and located in the continental United States.
2. You must contact HoverCam Technical Support Center at 1-866.201.2056.
3. HoverCam or HoverCam Technical Support Center will attempt to resolve technical issues over the phone. If telephone resolution is not possible, HoverCam or HoverCam Customer Service Center will then issue a Return Merchandise Authorization (“RMA”) number to be used as a means of identifying the product returned. RMA authorization numbers are valid for thirty (30) days and void thereafter
4. You must return the product to HoverCam unless otherwise directed by HoverCam to a HoverCam Authorized Service Provider. HoverCam Technical Support will arrange and cover return shipping cost. You must pay any export taxes, custom duties and taxes, or any charges associated with the handling of the HoverCam product.
5. All returned Products must be accompanied with (i) the original shipping and packing materials,(ii) a description of the HoverCam product symptom and (iii) proof of the place and date of purchase. The RMA number must be clearly printed on packing slip and on the exterior-shipping container. All Products must be sent in secured packaging to avoid any shipping damages.
6. HoverCam and HoverCam Authorized Service Provider reserve the right to refuse and return, freight collect, Products (i) that are not covered by HoverCam's warranty; or (ii) for which there is no trouble found. Products delivered to HoverCam or a HoverCam Authorized Service Provider with an expired RMA may be refused and returned, without prior notice, to the Customer freight collect.
7. HoverCam or HoverCam Authorized Service Provider will use its best efforts to service Products within thirty (30) days after receipt of the Products at its warehouse facilities. For return shipments of the Products, except otherwise described herein, HoverCam or HoverCam Authorized Service Provider will pay the shipping cost and retain risk of loss until delivery to the Customer’s location as evidenced by signature collected by carrier. The Customer may designate only one location within the continental United States, Hawaii, and Alaska for return shipments. HoverCam and HoverCam Authorized Service Provider are not responsible for shipping or other delays beyond their control.

**Exclusions**
This limited warranty does not extend to any Product not purchased from a HoverCam authorized reseller. This limited warranty also does not extend to any product that has been damaged or rendered defective (a) due to normal wear and tear; (b) as a result of use of the Product other than for its normal intended use, or other misuse, abuse or negligence to the Product; (c) by the use of parts not manufactured or sold by HoverCam; (d) by modification of the Product; (e) as a result of service by anyone other than HoverCam or a HoverCam Authorized Service Provider; (f) improper transportation or packing when returning the Product to HoverCam or a HoverCam Authorized Service Provider; (g) improper installation of third party products; (h) improper environment (including improper temperature or humidity); (i) unusual physical or electrical stress or interference, failure or fluctuation of electrical power, lightning, static electricity, fire, or acts of God. HoverCam is not responsible for damage to or loss of any programs, data or removable storage media. You are responsible for saving (backing up) any programs, data or removable storage media.

**Other Limitations**
EXCEPT FOR THE WARRANTIES SET FORTH HEREIN, HOVERCAM DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY APPLICABLE LAW ARE LIMITED TO THE TERMS OF THIS LIMITED WARRANTY. IN NO EVENT SHALL HOVERCAM BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF BUSINESS, REVENUE, PROFITS, INFORMATION, DATA OR USE, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCT, EVEN IF HOVERCAM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. YOU AGREE THAT REPAIR OR REPLACEMENT, AS APPLICABLE, UNDER THE WARRANTY SERVICES DESCRIBED HEREIN IS YOUR SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO ANY BREACH OF THE HOVERCAM LIMITED WARRANTY SET FORTH HEREIN. IF, DESPITE THE FOREGOING LIMITATIONS, FOR ANY REASON HOVERCAM BECOMES LIABLE TO YOU FOR DAMAGES INCURRED BY YOU IN CONNECTION WITH THIS AGREEMENT, THEN, THE LIABILITY OF HOVERCAM WILL BE LIMITED TO THE AMOUNT EQUAL TO THE INVOICE AMOUNT PAID BY YOU TO HOVERCAM OR A HOVERCAM AUTHORIZED RESELLER FOR THE PRODUCT. All prices, products, terms and conditions are subject to change without notice. Some states or provinces/jurisdictions do not allow the exclusion or limitation of incidental or consequential damages for consumer products, and some states or provinces/jurisdictions do not allow limitations on how long an implied warranty lasts. In such states or provinces/jurisdictions, the exclusions or limitations of this limited warranty may not apply to you. This limited warranty gives you specific legal rights. You may also have other rights that vary from state to state/jurisdiction to jurisdiction. You are advised to consult applicable state and provincial/local laws for a full determination of your rights.

**Please email HoverCam Technical Support Center to submit a support ticket:**

**support@hovercam.com**

Hours: M-F 7:00am – 5:30pm PST
Phone: 866.201.2056

To avoid delays, please DO NOT SEND ANY HoverCam product to HoverCam or a HoverCam Authorized Service Provider without HoverCam's authorization.

## Power Cords, Power Adapters, Extension Cables, Electrical Outlets

WARNING:
Use only the power cords and power adapters supplied by the product manufacturer.
The power cords shall be safety approved. Never wrap a power cord around a power adapter or other object. Doing so can stress the cord in ways that can cause the cord to fray, crack, or crimp. This can present a safety hazard.
Always route power cords so that they will not be walked on, tripped over, or pinched by objects.
Protect power cords and power adapters from liquids. For instance, do not leave your power cord or power adapter near sinks, tubs, toilets, or on floors that are cleaned with liquid cleansers. Liquids can cause a short circuit, particularly if the power cord or power adapter has been stressed by misuse. Liquids also can cause gradual corrosion of power cord terminals and/or the connector terminals on a power adapter, which can eventually result in overheating.
Ensure that all power cord connectors are securely and completely plugged into receptacles.
Do not use any power adapter that shows corrosion at the ac input pins or shows signs of overheating (such as deformed plastic) at the ac input pins or anywhere on the power adapter.
Do not use any power cords where the electrical contacts on either end show signs of corrosion or overheating or where the power cord appears to have been damaged in any way.
To prevent possible overheating, do not cover power adapters with clothing or other objects when the power adapter is plugged into an electrical outlet.
Ensure that extension cords, surge protectors, uninterruptible power supplies, and power strips that you use are rated to handle the electrical requirements of the product. Never overload these devices. If power strips are used, the load should not exceed the power strip input rating. Consult an electrician for more information if you have questions about power loads, power requirements, and input ratings.
If a receptacle (power outlet) that you intend to use with your tablet equipment appears to be damaged or corroded, do not use the outlet until it is replaced by a qualified electrician.
Do not bend or modify the plug. If the plug is damaged, contact the manufacturer to obtain a replacement.
Do not share an electrical outlet with other home or commercial appliances that draw large amounts of electricity; otherwise, unstable voltage might damage your tablet, data, or attached devices.
Some products are equipped with a three-pronged plug. This plug fits only into a grounded electrical outlet. This is a safety feature. Do not defeat this safety feature by trying to insert it into a non-grounded outlet. If you cannot insert the plug into the outlet, contact an electrician for an approved outlet adapter or to replace the outlet with one that enables this safety feature. Never overload an electrical outlet. The overall system load should not exceed 80 percent of the branch circuit rating. Consult an electrician for more information if you have questions about power loads and branch circuit ratings.
Be sure that the power outlet you are using is properly wired, easily accessible, and located close to the equipment. Do not fully extend power cords in a way that will stress the cords.
Be sure that the power outlet provides the correct voltage and current for the product you are installing.

## Battery Warning

WARNING:
Do not attempt to remove or replace the built-in rechargeable battery. Replacement of the battery must be done by a HoverCam-authorized repair technician, or by direction from HoverCam Technical Support.

Only recharge the battery strictly according to instructions included in the product documentation. Batteries supplied by HoverCam for use with your product have been tested for compatibility and should only be replaced with approved parts. A battery other than the one specified by HoverCam, or a disassembled or modified battery is not covered by the warranty.
Battery abuse or mishandling can cause overheat, liquid leakage, or an explosion. To avoid possible injury, do the following:

- Do not open, dissemble, or service any battery.
- Do not crush or puncture the battery.
- Do not short-circuit the battery, or expose it to water or other liquids.
- Keep the battery away from children.
- Keep the battery away from fire.
- Stop using the battery if it is damaged, or if you notice any discharge or the buildup of foreign materials on the battery leads.
- Store the rechargeable batteries or products containing the rechargeable batteries at room temperature, charged to approximately 30 to 50% of capacity. We recommend that the batteries be charged about once per week to prevent over-discharge.
- Do not put the battery in trash that is disposed of in landfills. When disposing of the battery, comply with local ordinances or regulations.

## Heat and Product Ventilation

WARNING:
Tablets, ac power adapters, and many accessories can generate heat when turned on and when batteries are charging. Tablets can generate a significant amount of heat due to their compact size. Always follow these basic precautions:

- When your tablet is turned on or the battery is charging, some parts may become hot. Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the tablet for any extended length of time. When you use the touchscreen, avoid keeping your palms on the device for a prolonged period of time. Your tablet generates some heat during normal operation. The amount of heat depends on the amount of system activity and the battery charge level. Extended contact with your body, even through clothing, could cause discomfort or even a skin burn. Periodically take breaks from using the touchscreen by lifting your hands from the device; and be careful not to use the device for any extended length of time.
- Do not operate your tablet/podium or charge the battery near flammable materials or in explosive environments.
- Ventilation slots, fans and/or heat sinks are provided with the product for safety, comfort, and reliable operation. These features might inadvertently become blocked by placing the product on a bed, sofa, carpet, or other flexible surface. Never block, cover, or disable these features.
- When the ac power adapter is connected to an electrical outlet and your device, it generates heat. Do not place the adapter in contact with any part of your body while using it. Never use the ac power adapter to warm your body. Extended contact with your body, even through clothing, may cause a skin burn.

For your safety, always follow these basic precautions with your tablet:

- Regularly inspect the outside of the tablet for dust accumulation.
- Remove dust from vents and any perforations in the bezel. More frequent cleanings might be required for tablets in dusty or high-traffic areas.
- Do not restrict or block any ventilation openings.
- Do not operate your tablet inside furniture, as this might increase the risk of overheating.
- Airflow temperatures into the tablet should not exceed 35°C (95°F).

## Electrical current safety information

WARNING:
Electric current from power, telephone, and communication cables is hazardous.
To avoid a shock hazard:

- Do not use your product during a lightning storm.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect to properly wired outlets any equipment that will be attached to this product.
- Whenever possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Do not use your tablet until all internal parts enclosures are fastened into place. Never use the tablet when internal parts and circuits are exposed.

## Liquid Crystal Display (LCD) Notice

CAUTION:
The liquid crystal display (LCD) is made of glass, and rough handling or dropping the tablet can cause the LCD to break. If the LCD breaks and the internal fluid gets into your eyes or on your hands, immediately wash the affected areas with water for at least 15 minutes; if any symptoms are present after washing, get medical care.

## Choking Hazard Notice

CHOKING HAZARD – Product contains small parts. Keep away from children under three years.

## Plastic Bag Notice

DANGER:
Plastic bags can be dangerous. Keep plastic bags away from babies and children to avoid danger of suffocation.

## Glass Parts Notice

CAUTION:
Some parts of your product may be made of glass. This glass could break if the product is dropped on a hard surface or receives a substantial impact. If glass breaks, do not touch or attempt to remove it. Stop using your product until the glass is replaced by trained service personnel.

HoverCam may not offer the products, services, or features discussed in this document in all countries. Consult your local HoverCam representative for information on the products and services currently available in your area. Any reference to a HoverCam product, program, or service is not intended to state or imply that only that HoverCam product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any HoverCam intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.
HoverCam may have patents or pending patent programs covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

*Pathway Innovations & Technologies, d.b.a. HoverCam*
*9985 Pacific Heights Blvd*
*STE 100*
*San Diego, CA 92121*
*Attention: HoverCam Legal*

HoverCam PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.
This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. HoverCam may make improvements and/or changes in the product(s) and/or the application(s) described in this publication at any time without notice.
The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change HoverCam product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of HoverCam or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

HoverCam may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.
Any references in this publication to non-HoverCam Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this HoverCam product, and use of those Web sites is at your own risk.
Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

© Copyright HoverCam 2019
This document is copyrighted by HoverCam and HoverCam may update this document at any time without notice. To obtain the most up-to-date documentation for your Podium, go to:
www.hovercam.com/support

## Trademarks

HoverCam is a trademark of Pathway Innovations & Technologies in the United States, other countries, or both.
Microsoft and Windows are trademarks of the Microsoft group of companies.
The terms HDMI and HDMI High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
Wi-Fi and Wi-Fi Alliance are registered trademarks of Wi-Fi Alliance.
USB-C is a trademark of USB Implementers Forum.
Other company, product, and service names may be trademarks or service marks of others.

## Patents

The following pending U.S. patents have been filed by Pathway Innovations and Technologies, Inc. (d.b.a. HoverCam):

| | |
|---|---|
| 15/969,732 | 62/696,037 |
| 15/968,726 | 62/700,188 |
| 14/122,020 | 62/720,316 |
| 14/382,181 | 62/720,344 |
| 16/163,424 | 15/410,580 |
| 62/689,027 | 15/650,605 |
| 62/689,041 | 15/849,655 |
| 62/689,128 | |

# Pilot X™

Designed by HoverCam in sunny San Diego, California

(858) 750-3499
sales@hovercam.com

© Copyright HoverCam® 2019
Pathway Innovations & Technologies, LLC
9985 Pacific Heights Blvd. STE 100
San Diego, CA 92121

**FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.