



HoloLens 2

User Manual eolian



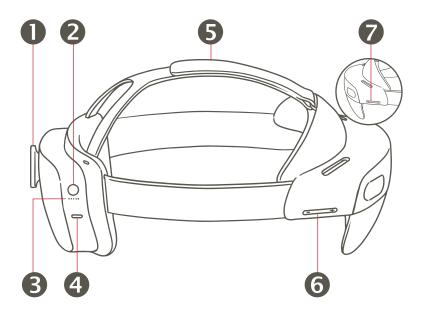
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Headset



- 1. Adjustment Wheel
- 2. Power Button
- 3. LED Indicators
- 4. USB Type-C Charging Port
- 5. Overhead Strap
- 6. Brightness Button
- 7. Volume Button





Opening ARTAK

Approach One:

By default, ARTAK opens automatically when the HoloLens is powered on



Approach Two:



If ARTAK does not load automatically, follow these steps:



Open Windows start up menu by pressing Windows icon on left wrist





Open "All Apps" and include a new image showing the "All Apps" button



Select the ARTAK app from the Windows start up menu

Basic Controls



HoloLens uses hand gestures for direct manipulation of holograms. For more infor mation visit https://learn.microsoft.com/en-us/windows/mixed-reality/design/direct-manipulation

Interactions

Near interactions allow you to "physically" reach out and press/grab holograms

Use pointer finger to press hologram

Far interactions allow you to click/grab holograms from a distance using a laser pointer to aim

Use pointer finger and thumb in a "pinching motion"

Selecting Objects and Icons

Press/grab/click objects and icons to interact with them

Maps

1. Move

Live Map - Click/grab the white pill on side of the map to move to desired location

Static Map - Click/grab anywhere on the map with one hand and move to desired location

2. Rotate

Press/grab/click objects and icons to interact with them

3. Scale (Zoom In/Out)

Click/Grab with both hands and move hands apart from or towards each other

Menus

1. Open/Close Menus

Using your left hand, turn palm facing you to open up menu Drop left hand to close windows or use right hand to click the "x" Use back arrow to return to previous menu

2. Move Menus

Live Map - Click/grab the white pill on side of the map to move to desired location

Static Map - Click/grab anywhere on the map with one hand and move to desired location

3. Scroll a Menu

Press/grab/click objects and icons to interact with them

Start Up



Ensure that status symbols in the top right corner are green

Icon





Internet

Green - Successfully Connected to Internet Red - Could Not Connect to the Internet



Multi-User

Green - Multi-User Active and Connected Yellow - Single-User Mode Active Red - Multi-User Not Connected

ToolTip/Function



Network

Green -Device Connected to a Network Red - Device Not Connected to a Network



Server

Green - Successfully Connected to Server Red - Could Not Connect to Server

Login Screen



D Chec

Check the Use Room Password if you would like your room to be protected by a password

Check Auto Login with Current Settings if you wish to bypass the Login screen next time

How would you like to log in - Click to join a Multi-User or Single-User room

Icon



ToolTip/Function

Eolian Virtual Assistant (EVA)

Click on the icon in the Login Screen to toggle EVA on/off EVA will walk you through syncing an anchor, becoming main presenter, opening a map, and spawning nodes



Edit username

This is the name that will appear in the room

Edit room name

Allow others to join using the same room name

ToolTip/Function



Open partition key panel

Setting partition keys will lock all data created in a room using keys behind those keys.



Clear Spatial Mesh

Clears spatial mesh data



Open Debug Panel

Shows a log of warnings, errors, stack trace, and full debugging Shows Photon Stats



Network Settings Panel

Click to open network settings panel

Network Setting Panel



Offline Mode

Operate the application independent of all networking

By toggling on you will no longer have internet options

Allow Internet

Will allow the app to connect to the internet

Server Connection Type

Cloud - Connects to Eolian's cloud sever. (Requires Internet) CANN - Connects to a CANN on this device's LAN Custom - Connects to the specified IP Address

Single-User Mode

App will operate normally but with no Multi-User Functionality

Multi-User Connection Type

Cloud - Connects to Internet Multi-User service running on a Cloud CANN - Connects to the Multi-User service running on a CANN Custom - Connects to the specified IP Address

Refresh

Force Application to recheck current network settings

Home Menu (Hand Menu)



Icon

ToolTip/Function



Map Selection

Choose from a selection of maps



Mission Plans

Menu for creating, loading, and deleting mission plans

ToolTip/Function



Save a Mission Plan

Plan a mission, then press create to get to save panel

A panel will pop up, enter the name of the mission, then save it to the server or to the local device you're connected to

Load a Mission Plan

Choose from saved mission plans, then press load

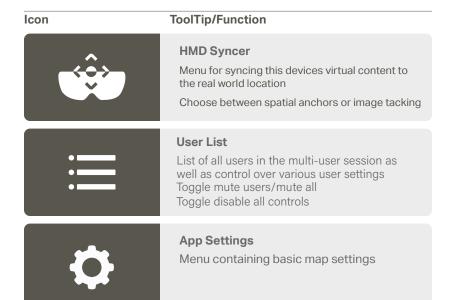


Control Panel

Menu for enabling and disabling other users controls

Ability to take control over the room so other users aren't able to manipulate anything

Home Menu (Hand Menu)



lcon

ToolTip/Function



Map Menu

Menu containing settings and controls for the current map

Map Selection



Icon



ToolTip/Function

Show map options from the internet



Show map options locally stored on this device

ToolTip/Function



Show map options available to download from the ARTAK server



Show locally stored maps that are not stored on the server

App Settings







Clear spatial mesh

ToolTip/Function



Open audio settings panel

Mute Self Master Volume SFX Volume Al Voice Volume VOIP Volume



Recenter visual data to the virtual world center



Recenter the visual data in front of you



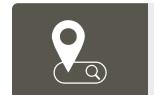
Exit the room and return to the login screen

Map Menu





Icon



ToolTip/Function

Location Search

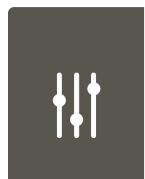
Enter a location to center the map over

Use Lat/Lon, MGRS, or type a location to search for a location



Bookmark

Load and create location bookmarks



ToolTip/Function

Map Settings

Gives you the right Lat/Lon or MGRS

Toggle contour lines, node/node labels, map labels, node directional

Able to lock/unlock the map

Able to lock/unlock all (nodes, routes, map)

Toggle map shape from circular to square

Adjust zoom level and map radius (shrink or enlarge map)

Able to change the Node Height

Node Stem Transparency
Toggle map shape (ie circle, or square)



Point Select

Add nodes into the node queue

Top row shows everything you can ingest (ASSETS, VEHICLES. POINTS. TASKS)

Second row shows (UNKNOWN, FRIENDLY, NEUTRAL, HOSTILE)

To spawn the node in the node queue press the plus button next to current selection. Node queue will appear at the bottom of your view, waist level. Grab node and place/drag to desired location on the map

ToolTip/Function



Point List

Enter a location to center the map over
Use Lat/Lon, MGRS, or type a location to search
for a location



Layer Selection

Live Nodes

Can see breadcrumbs (blue lines that show historical records of positioning)

Analytic

ex/ NYC Subway Lines

Overlay

ex/ population density



Current Weather

View weather information of the current map location

ToolTip/Function



Minimap

Shows the area that was scanned from a 2D image

Zoom in and out with the pill bar on the bottom after it is opened.



Show Lat/Lon

See the location with latitude and longitude the whole entire time on your laser pointer



Recenter visual data

Click to recenter the current visual data to the virtual world center for a location



X-Rav

Open a willow to clip away parts of the map. Best used for viewing interior scans for a location



Close Map

Click to entirely close out a map including any nodes/routes for a location

Point Select

Assets



Click on an asset and then click the plus button to add to node queue

Grab asset and drag from node queue to desired location on map

Vehicles



Click on a vehicle and then click the plus button to add to node queue

Grab asset and drag from node queue to desired location on map

Point Select

Points



Click on a point and then click the plus button to add to node queue

Grab point and drag from node queue to desired location on map

Tasks



Click on a task and then click the plus button to add to node queue

Grab task and drag from node queue to desired location on map

Node Queue



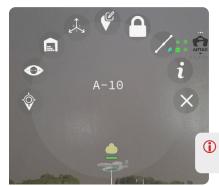
After adding any node to the node queue, a queue will spawn about waist high that will follow you

To move and lock the node queue to a specific spot, grab the directional on the top right corner and drag to desired location

Click 'Reset Position' to bring the node queue back to its original position

Click 'Clear Nodes' if you wish to delete remaining nodes in the queue (Note: this will also remove the node queue from the screen)

Point Select



Click any node and a pop up circle will appear with options

Icon

ToolTip/Function



Target Lock

Focus and follow as if live

A green ring will appear around the node



(Line of Site) LOS Actions

Choose between 360, 270, 180, 90, 60 FOV (Field of View)

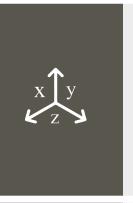
A shaded region will appear representing what the node can see

ToolTip/Function



View Inventory

Add guns, bombs, radios to the vehicle Shows firing range, blast radius, and service range of inventory



Manipulate Altitude and Course

Grab the green arrow to change node to desired altitude

Grab the red circle to rotate the node to desired degree

Click the blue arrow to snap node back to ground

Click red "x" to exit



Change Node Status

Fully Capable (green bar)
Damaged (yellow bar)
Destroyed (red bar)

Destroyed (red bar)

Full to Capacity (blue bar)

ToolTip/Function



Lock Node

Shows the area that was scanned but from a 2D image

Zoom in and out with the pill bar on the bottom after it is opened.



More Information

Location, Course, Persosnal_offset, Type, Cot_type, Uid, Name, Status, Node Type



Destroy Node

Clear node

Clear routes connecting to the node

Route Options

(i) Click any route node and a pop up circle will appear with options



Icon

ToolTip/Function



Destroy Point

Removes point from the route



Detach Link Points

Choose between 360, 270, 180, 90, 60 FOV (Field of View)

A shaded region will appear representing what the node can see



Snap point to ground

Node is pinned to the map, and cannot be moved

Icon	ToolTip/Function
111	Change color Change the color of the route by using sliders
+	Extend Route Add another point to the route
	Edit Route Label route Basic Route - white Infil Route - light blue Dismount Route - blue
	Lock this route lock/unlock a route into place
X	Destroy this route Clear route from map

Updating ARTAK

Visit this page for instructions on how to install and update ARTAK on the HoloLens. Go to



