

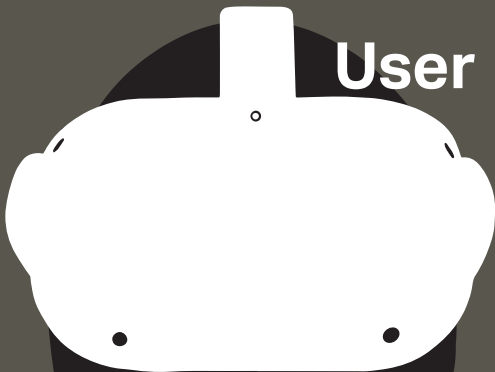
ARTAK

Augmented Reality Tactical Assault Kit

Oculus Quest 2



User Manual



eolian



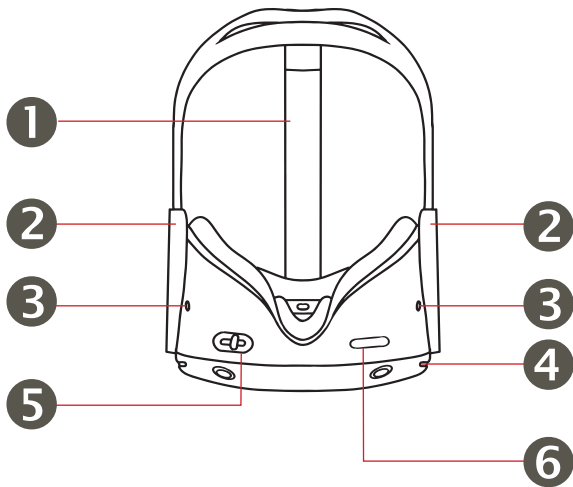
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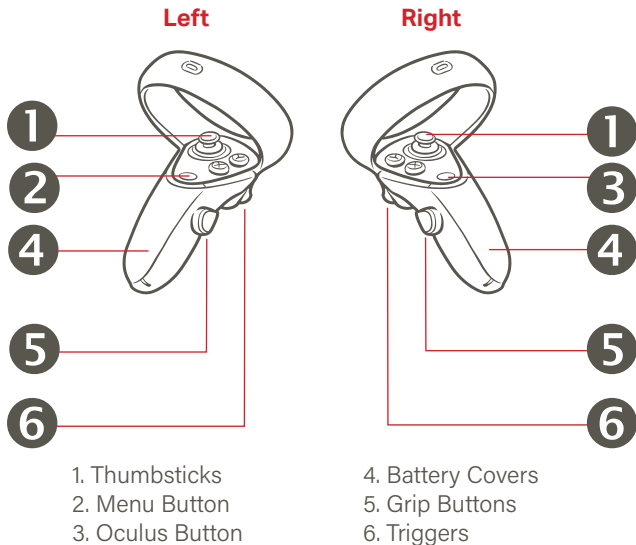
Headset



1. Top Strap
2. Side Straps
3. Headphone Jacks

4. Power/Standby
5. Lens Spacing
6. Volume

Controllers



Selecting Objects and Icons

Press/grab/click objects and icons to interact with them, using triggers (6) and/or "A" button OR by pinching thumb and index finger during Hand Tracking Mode

Basic Controls



Home Menu must be closed to interact with map movement

Maps

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

Rotate

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

Scale (Zoom In/Out)

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

Menus

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. When using Controllers, raise your left hand and press and HOLD the Menu Button (2) down. The menu will appear over your left hand and disappear once you let go of the button

Scroll a Menu

Press/grab/click objects and icons to interact with them **Open/Close Menus**

Click the > button in the bottom left hand corner to open the Home Menu

Click < to close the Home Menu

Click back arrow to return to previous menu or "x" to close out

Click the scroll bar and move up/down or side-to-side

Start Up



Ensure that status symbols in the top right corner are green

Icon

ToolTip/Function



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



Network

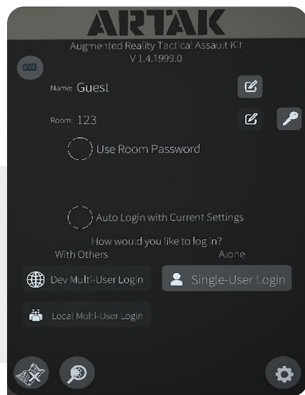
Green - Device Connected to a Network
Red - Device Not Connected to a Network



Server

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

Login Screen



- ⓘ 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

Icon

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



If there is no map selected, the Map Menu icon will not appear



Icon

ToolTip/Function



Map Selection

Choose from a selection of maps



Mission Plans

Menu for creating, loading, and deleting mission plans

**Save a Mission Plan**

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

Enter a save name, then save to cloud or save to local file

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

Icon

ToolTip/Function



HMD Syncer

Menu for syncing this devices virtual content to the real world location

Choose between spatial anchors or image tacking



User List

List of all users in the multi-user session as well as control over various user settings

Toggle mute users/mute all

Toggle disable all controls



App Settings

Menu containing basic map settings

Icon

ToolTip/Function



App Settings

Menu containing settings and controls for Virtual Reality aspect



Map Menu

Menu containing settings and controls for the current map

VR Settings



VR Immersion Controls

Left Thumpstick

Travel though as if walking through the building

Right Thumpstick

Hold forward on the thumbstick to "jump to a spot"



Snap to Ground

Snap yourself to the map's ground

Vignette Strength

Control the darkness around the edges

Settings



Icon

ToolTip/Function



Open debug panel



Clear spatial mesh

Icon

ToolTip/Function



Open audio settings panel

Mute Self
Master Volume
SFX Volume
AI Voice Volume
VOIP Volume



Recenter visual data to the virtual world center

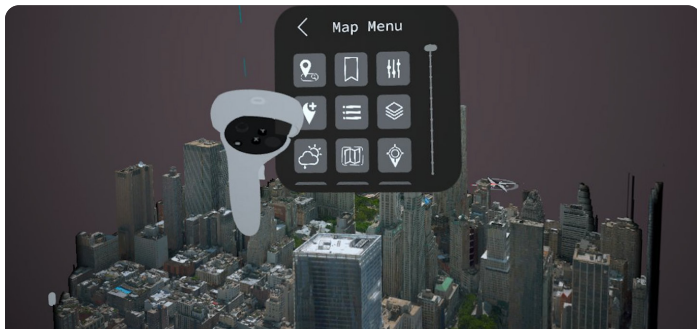


Recenter the visual data in front of you



Exit the room and return to the login screen

Map Menu



Location Search and Bookmark icons will only appear in live maps

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



Node History

Choose a historical time window to view live data

Icon

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.

Icon

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

Icon

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-Ray

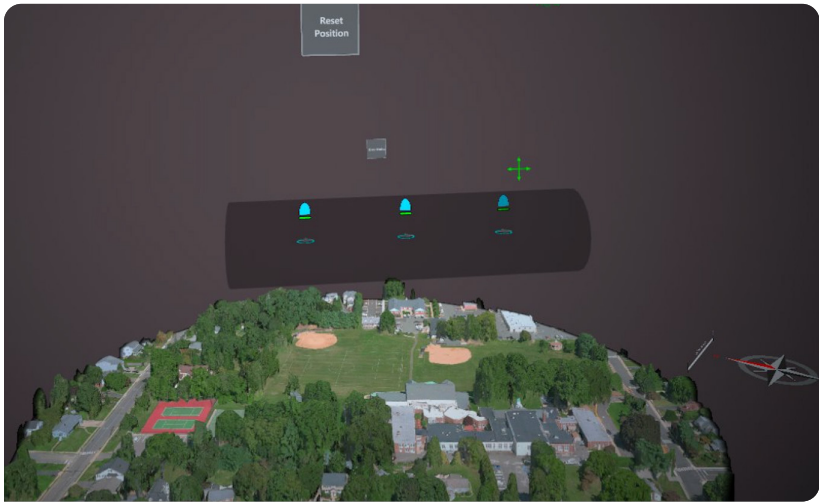
Open a window to clip away parts of the map. Best used for viewing interior scans for a location



Close Map

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

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 left 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 desired node (Assets, Vehicles, Points or Tasks) and then scroll through various options

Click desired allegiance

Click the plus button to add to node queue

Point Select Settings



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

Icon

ToolTip/Function



Vehicle Immersion

View the map from the perspective of being in the current vehicle



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)
Full to Capacity (blue bar)

Icon

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.



Route Options

Unlink route points from this node
Delete routes from this node
Create a route from this node



More Information

Location, Course, Personal offset, Type, COT_
Type, UID, Name, Status, Node Type



Destroy Node

Clear node
Clear routes connecting to the node

Route Options



 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
	<p>Change color Change the color of the route by using sliders</p>
	<p>Extend Route Add another point to the route</p>
	<p>Edit Route Label route</p> <ul style="list-style-type: none">Basic Route - whiteInfill Route - light blueDismount Route - blue
	<p>Lock this route Lock/unlock a route into place</p>
	<p>Destroy this route Clear route from map</p>

Node History

> Node History ✕

Live Data Sources

Target Date:

January ▼ 1 ▼ 2023 ▼

Target Time:

16 ▼ : 00 ▼

Hours Before: -13

0

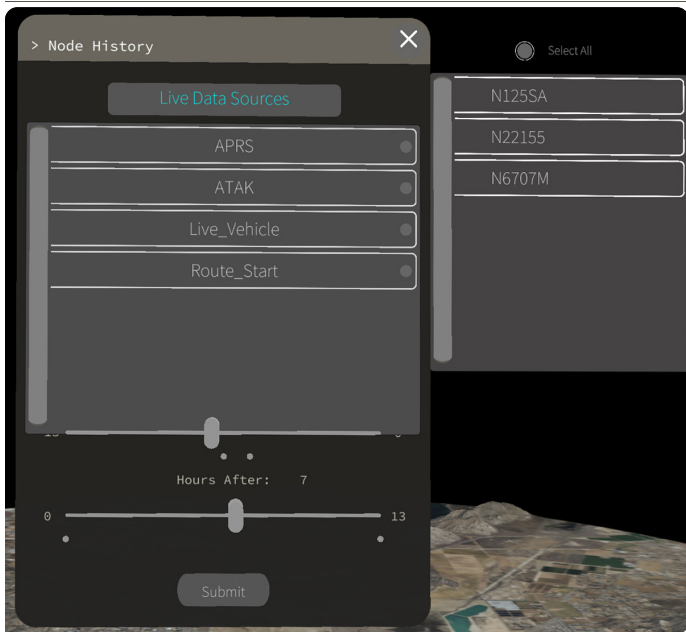
Hours After: 13

0 13

Submit

Live Data Source

Choose from APRS, ATAK, Live_Vehicle, and Route_Start
Then choose a specific call sign



Target Date/Time

Choose a specific date of the node desired

Enter a target time - then use sliders to up to -13 hours before target time or +13 after target time

Updating & Opening ARTAK

1. Download the ARTAK_VX.X.0.0 zip file from your desired source onto the Windows device
2. Ensure the Quest device is in developer mode
3. Ensure SideQuest Advanced Installer is installed and open on the computer which contains the downloaded apk file
4. Connect the Quest device to the computer via USB-C to USB-A cable
5. Enable USB debugging in the Quest device in order to allow new connections to the computer.
6. A visual confirmation in SideQuest will show the device is connected properly in the top left of the header bar, and the IP address of the device will be displayed
7. Navigate to the app install section of SideQuest and select the apk file downloaded in step 1
8. Wait for SideQuest to display that all tasks have been completed, this is a confirmation that the app has successfully installed the quest device
9. In the Quest device, under the apps section, click on the drop-down located on the top right of the window, scroll to the very last section titled "Unknown Sources" and click on it. The ARTAK app will be displayed here



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