ONSIGHT

Onsight Connect for Iristick

User Guide

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Onsight Workspace User Guide

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1. INTRODUCTION

Figure 1-1 Ecom Visor-Ex® 01

Onsight Connect for Iristick will use the **Ecom Visor-Ex® 01** industrial grade smart glasses that is designed to work in hazardous areas by PEPPERL + FUCHS. It is designed for collaborating and communicating with remote experts out in the field. It features a built-in-heads-up display, a light with two cameras, a laser, speaker, and four microphones. The camera includes optical zoom capability for barcode scanning and a touch pad.

The Ecom smart glasses use an advanced *Human Machine Interface (HMI)* that connects with a smart phone to assist applications. It is a hands-free device that accepts input from a smartphone, a touchpad and includes voice commands.

This document outlines the operational voice commands currently available in **Onsight Connect for Iristick** that includes **Onsight Cube** support.

If this is the first time running **Onsight for Iristick**, enable the **Remember Me** option to automate and bypass the login step going forward. Onsight may request permission to access the smart glasses' **Location**, **Camera**, **Microphone (Mic)**, etc. Enable (**Allow**) all permissions.

Tip: What is the most important Onsight voice command?

Show Tool Tips command displays all available **Onsight Connect** commands for the current screen. The tool tips will remain onscreen until the **Hide Tool Tips** command is spoken.

2. SAFETY

Please follow all manufacturer safety guidelines and warnings. Refer to the Iristick User Guide for the most up-to-date safety information.

Safety Guidelines & Warnings

Warning: Use of controls or adjustments, or carrying out procedures, other than those specified herein may result in hazardous radiation exposure.

- Never aim any laser towards an aircraft or moving vehicle.
- Do not use the Iristick while operating a vehicle.
- Always push the heads-up display up, out of the line-of-sight when not in use.
- Never use a charger and/or adapter that looks damaged and/or has been tampered with. - Do not charge and/or use the Iristick in humid environments.
- Do not submerge the Iristick and/or any of the accessories in any kind of liquid, in order to avoid electrocution.
- Do not use and/or charge the Iristick in explosive atmospheres as specified by the *Atmospheres Explosible (ATEX)* directives.
- Do not open the Iristick and/or any of its accessories, in order to avoid fire or electrocution.
- Always disconnect the headset from the pocket unit by removing the coaxial cable in-between before cleaning the Iristick.
- Always disconnect the pocket unit from its charger and the phone before cleaning the pocket unit and/or the charger.
- Stop using the Iristick and/or the mobile phone if you experience nausea, dizziness and/or any other complication that might be caused by wearing and/or using the Iristick and/or the mobile phone.

Related information
Iristick User Guide

2.1. Safe Operation Temperature

The Iristick smartglasses are designed to work in environments with a temperature range between -5° C and 55° C (23° F and 131° F). Temperatures outside this range may damage the smartglasses resulting in malfunctions.

Related information
Iristick User Guide

2.2. Warranty

The Iristick and its accessories come with a 1-year world-wide limited warranty, which starts from the date of purchase, as stated on the invoice.

Related information
Iristick User Guide

2.3. SAR Value

The Iristick does not transmit any *Radio Frequency (RF)* that includes *Bluetooth (BT)*, *Wireless Fidelity (Wi-Fi)* and/or cellular radiation. As a result, a meaningful *Specific Absorption Rate (SAR)* value cannot be measured. The amount of radiation the other electronics transmit is negligible. Of course, the phone used in combination with the Iristick will have a combined measured *SAR* value.

3. IDENTIFY YOUR DEVICE

The following industrial grade Smart Glasses are available:

- **Visor-Ex®01 DZ1** for *ATEX*
- **Visor-Ex®01 DZ2** for *ATEX*
- **Iristick H1**as a *Rugged Device*

3.1. Ecom Visor-Ex Smart Glasses

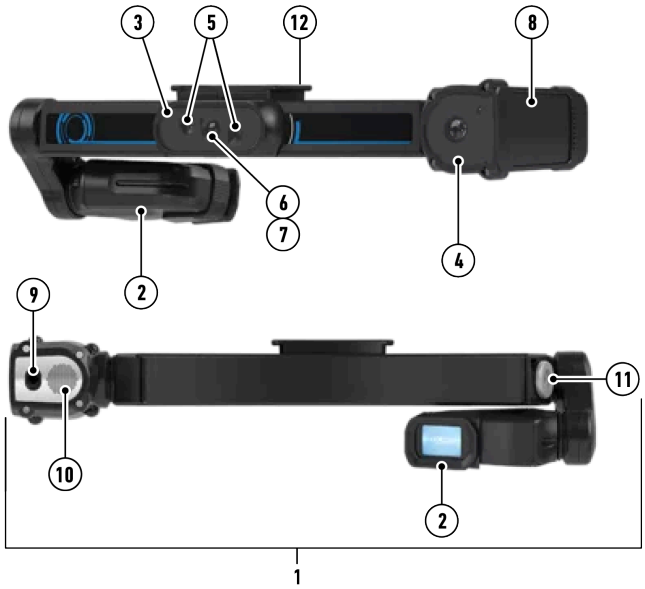
The **Ecom Visor-EX®01** is comprised of the following main components:

1. **Ecom Visor-Ex®01** Smart Glasses
2. **Smart Ex®02** Smart Phone
3. **Pocket Unit** Power Supply

Related information
Iristick User Guide

3.1.1. Ecom Visor-Ex Smart Glasses Components

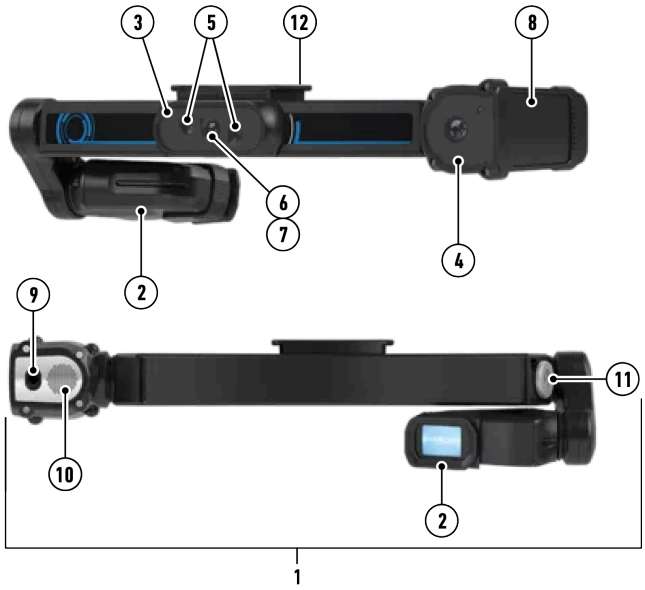
1. Ecom Visor-EX®01 Smart Glasses Assembly
2. Heads-up Display
3. Center Camera and *Light Emitting Diode (LED)*
4. Zoom Module
5. Dual 16MP Center Camera
6. Privacy *LED*
7. Flash LED
8. Capacitive Touch Pad
9. 3.5 mm Audio Jack
10. Speaker
11. Coaxial Connector
    - Quad Microphone Array
    - 9-Axis Sensor
12. Helm Mount



3.2. Iristick H1

3.2.1. Iristick H1 Smart Glasses Components

1. Iristick H1®01 Smart Glasses Assembly
2. Heads-up Display
3. Center Camera and *LED*
4. Zoom Module
5. Dual 16MP Center Camera
6. Privacy *LED*
7. Flash LED
8. Capacitive Touch Pad
9. 3.5 mm Audio Jack
10. Speaker
11. Coaxial Connector
    - Quad Microphone Array
    - 9-Axis Sensor
12. Helm Mount



4. INTIAL SETUP & CONFIGURATION

The Iristick can be clamped to a safety helmet. The **Pocket Unit** and **Smartphone** can clamp to several types of belts that enable hands-free communication. All three devices are connected via cables.

In order to setup and configure your device, you will need to:

- Determine your dominant eye
- Setup and configure the Iristick
- Make adjustments

Related information
Iristick User Guide

4.1. Determine Your Dominant Eye

It is important to determine whether the user is right or left eye dominant. This determination is important because the user will position the **Heads-up Display** in front of their dominant eye. To determine a user's dominant eye, perform a simple test.

1. Create a triangle using your thumbs and forefingers as shown.
2. With both eyes open, look through the triangle and center something such as a doorknob in the triangle.
3. Close your left eye. If the object remains in view, the user is right eye dominant.
4. If closing your right eye keeps the object in view, the user is left eye dominant.

Tip: for more information, refer to the video, How to Determine Your Dominant Eye with Our Dominant Eye Test.

Note: The eye test is not all-encompassing. If the user has always used their right-eye as the dominant eye and this test indicates they are left-eye dominant, then test using the display pod on both eyes. Determine which eye is best to utilize for the Ecom Ex Visor.

4.2. Setup & Configure the Iristick

The Iristick can be worn over your left or right eye. Place the Iristick on a surface where the **Heads-up Display** (2) is aligned with the side of your dominant eye and the cameras are facing front. To setup and configure your device, refer to the **Quick Start** section within the Iris User Guide.

Related information
Iristick User Guide
Determine Your Dominant Eye *(on page 11)*

4.3. Perform Adjustments

Now that the device is setup and configured, consider making the following adjustments:

- **Heads-up Display** position can be adjusted up or down and tilted as necessary
- **Zoom Lens** position can be adjusted up or down
- Install the **Connector Piece** to accommodate left or right-eye dominance

Refer to the **Adjustments** section within the Iristick User Guide.

Note: If the user wear eye-glasses or the work environment requires protective eye wear, continue to wear them while using the Ecom smart glasses. The Ecom smart glasses are designed to work well with or without eye glasses or protective eye wear.

Related information
Iristick User Guide
Determine Your Dominant Eye *(on page 11)*
Setup & Configure the Iristick *(on page 11)*

4.4. Install Applications for the Iristick

Download and install the following applications from the **Google Play Store**:

- **Iristick Services**
- **Onsight Connect for Iristick**

Tip: Enable (**Allow**) all prompts for permissions.

5. NAVIGATION & INPUT OPTIONS

The user interface for the Iristick can be navigated using:

- The **Touchpad**
- **Voice Commands**
- **Android Phone Keyboard**

Tip: The Android Phone Keyboard may vary in appearance depending on the phone's default keyboard settings.

Related information
Iristick User Guide

5.1. Touchpad

The **Touchpad** on the side of the **Zoom module** can be used to navigate the Iristick user interface.

Depending on the current operation, the following functions are available:

- **Swipe Forward** — Swipe your finger over the touchpad from the back towards the front, away from the ear to simulate the **Right Arrow**, **Page Down**, and **Tab** keys.

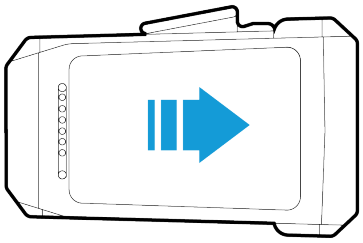


Figure 5-1 Swipe Forward

- **Swipe Backward** — Swipe your finger over the touchpad from the front towards the back, towards the ear to simulate the **Left Arrow**, **Page Up**, **Shift** and **Tab** keys.

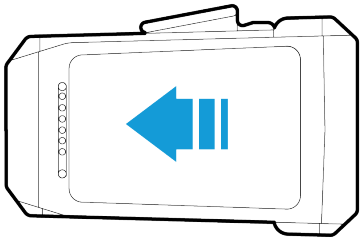


Figure 5-2 Swipe Backward

- **Swipe Down** — Swipe your finger over the touchpad in a downward motion to simulate the **Tab** key and/or exit a function.

Tip: Swipe Down can access the **Tab** key without invoking the **Right/Left Arrow** keys when working with thumbnails and text entry fields. Also, a second swipe in sequence will **close** (Exit) the app.

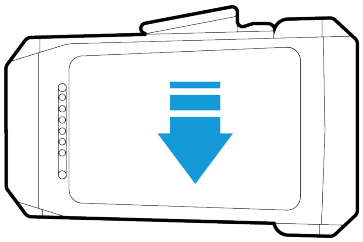


Figure 5-3 Swipe Down

- **Single Tap** — Briefly touch (“tap”) the touchpad to simulate the Enter key.
- **Double Tap** — Tap twice in quick succession.
- **Long Tap** — A single tap but held for a longer time.

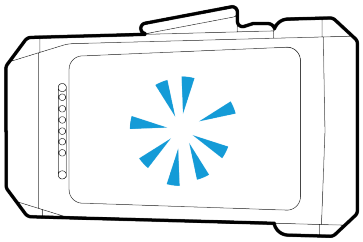


Figure 5-4 Tapping

Related information
Iristick User Guide

6. ACCESS ONSIGHT CONNECT for Iristick

Once installed, you can launch **Onsight Connect for Iristick** by tapping the application icon.

6.1. Login to Onsight Connect

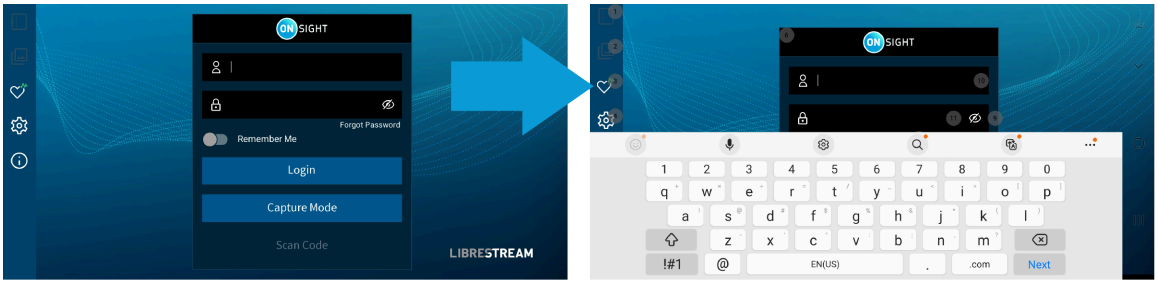


Figure 6-1 Login

There are several methods available to log in to **Onsight Connect**.

- Use the **Android Phone Keyboard** (Manual Method).

> **Tip:** The Android keyboard is the recommended method for entering text. Whenever a text entry field is brought into focus or selected, the keyboard is displayed automatically.

- Use a ***Quick Response (QR) Code*** (Automated Method and best practice).

Login Credentials

You must have been assigned an account from your site Administrator in order to login to **Onsight Connect for Iristick**. Your login credentials will include:

- **User Name** — Speak "**Set User Name**" or "**Item (Number #)**" then enter your user name using the **Keyboard**.
- **Password** — Speak "**Password**" or "**Item (Number #)**" to enter your password.

Additionally, the following parameters and options can be set:

- **Forgot Password** — Speak "**Forgot Password**" or "**Item (Number #)**" to reset your password.
- **Display Password** — Speak "**Show Password**" or "**Item (Number #)**" to display all characters.
- **Remember Me** — Speak "**Remember Me**" or "**Item (Number #)**" to automate the login procedure for Onsight Connect.
- **Login** — Speak "**Login**" or "**Item (Number #)**" to begin using Onsight Connect.

If this is your first-time using **Onsight Connect for Iristick**, the login screen will appear with the **Capture Mode** button visible. You can ignore this button if you have been provided a user name and password.

> **Tip:** If you do not have an Onsight Connect user account, you may use **Capture Mode** to record content now and upload it later.

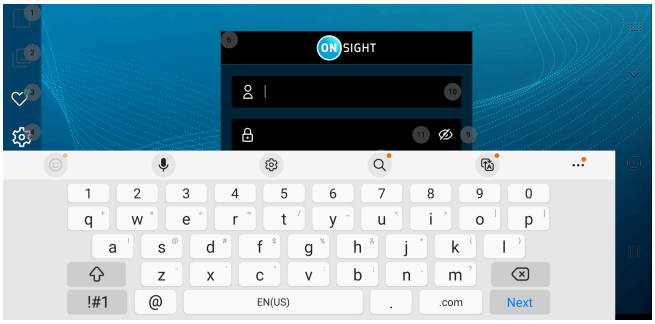
Note:

1. If a custom message appears during login that prompts you to agree to terms and conditions, you must tap **OK** to indicate compliance in order to advance.
2. If you are asked for permissions to access your microphone audio, camera pictures, device's location etc., tap **OK**, **Allow** or **Yes**, as necessary.

Once you complete your login, the **Capture Mode** button will disappear from subsequent logins.

6.2. Android Keyboard

The **Android Keyboard** is the recommended method for entering text. Additional input modes are available that include using the **Touch Pad** and the **Barcode Reader**. Whenever a text entry field is brought into focus or selected, the Android keyboard is displayed automatically.



6.2.1. Using the Android Keyboard to Login

Launch the **Onsight Connect for Iristick** application.

In this procedure, you will login to Onsight Connect.

Set User Name and Password

1. Speak "**Show Tool Tips**" to display all commands.
2. Speak "**User Name**" to enter your login username.

   Note: When entering text, the Android Keyboard will appear. You can use the keyboard to enter text and email addresses. For Onsight specific commands, refer to Onsight Voice Commands *(on page 19)*.

3. Speak "**Password**" to enter your login password.
4. Speak "**Remember Me**" to automate and speed up the login process.
5. Once all the characters have been entered, say "**Accept**". This closes the keyboard.
6. Speak "**Login**". If any prompts appear requesting permissions, accept all (Enable) permissions and say "**Close**" to exit. This completes the procedure.

6.3. QR Code Login

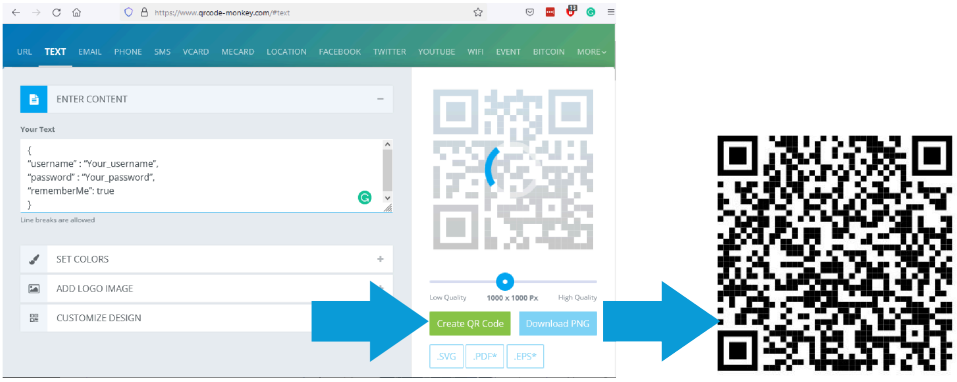


Figure 6-3 QR Code Generator

You can create a ***QR Code*** that contains your login credentials to speed up the process of logging into Onsight Connect. Use a QR Code generator to create the code. For example, https://www.qrcode-monkey.com/#text

Copy and paste the example text into a simple text editor, e.g., Notepad. Replace the text with your user name and password then copy the text into the QR Code generator.

The QR Code format must match the example text:

```
{
"username" : "Visor@librestream.com",
"password" : "MyPa$$word",
"rememberMe": true
}
```

Tip: Use *American National Standards Institute (ANSI)* text only when generating the QR Code.

To login using a QR Code, speak "**Scan Code**" at the login screen.

Note: Prior to logging in you must create a QR Code containing your login credentials.

6.3.1. Generating a QR Code

To generate and use a QR code, you can:

1. Select and copy the provided text.

```
{
"username" : "Visor@librestream.com",
"password" : "MyPa$$word",
"rememberMe": true
}
```

2. Paste the text into a text editor and modify the **username** and **password** values to match your login.
3. Access a *QR Code* generator like qrcodemonkey.

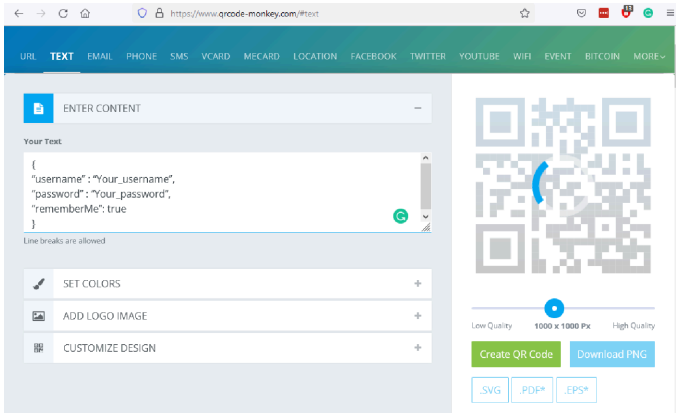
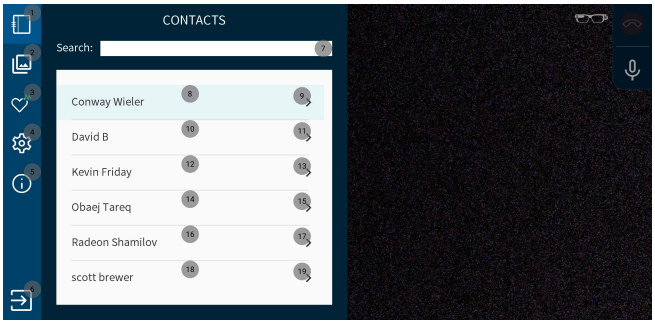


Figure 6-4 QR Code Monkey

4. Select and copy the revised text and paste it within the text field.
5. Click the **Create QR Code** button.
6. Click the **Download PNG** button to save the QR Code to your device.
7. Open the image file within an image viewer.
8. When you are logging into Onsight Connect for the first time, speak "**Scan Code**".
9. Point the camera at the QR Code and wait for the login to succeed.
   This completes the procedure.

6.4. Contacts

When Onsight Connect starts, **Contacts** will display by default. To close the contact list, speak "**Hide Contacts**". Conversely to display contacts, speak "**Show Contacts**".



Tip: When the Iristick is plugged in, Onsight displays the **Smartglasses** icon in the top right corner of the viewfinder. Voice commands are only available when the Iristick is plugged in.

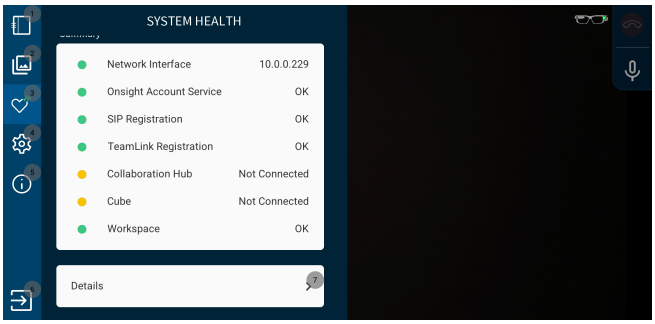
Note: The contacts displayed were added by your Onsight Administrator. Users are unable to add contacts from within Onsight using this device. However, contacts can be added using a device that supports full Onsight functionality. For example, (PC, Android, iOS) devices running Onsight Connect.

6.5. System Health

Before making any calls, you should check the **System Health** icon. It provides a visual indication for call quality using color. For example, when system health is **Green**, you can make or receive calls from anywhere.

For specific details on System Health, speak "**Show System Health**". If System Health and any of its services display in **Red**, you will be unable to make/receive calls and should contact your internal Onsight administrator immediately.

Speak "**Hide System Health**" to close System Health.

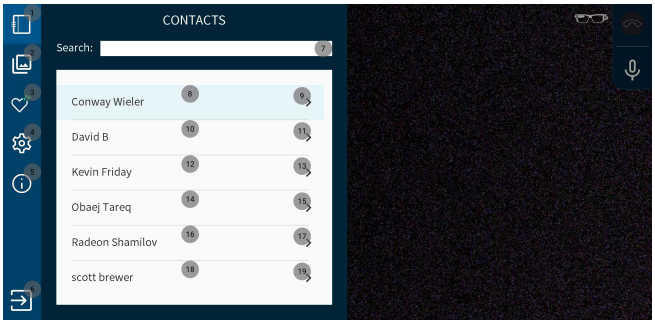


Tip: The top four services must be green for you to make a call.

6.6. Contact Operations

When Onsight Connect starts, your **Contacts** list will open by default. Thereafter, you can display contacts by speaking "**Show Contacts**". Conversely, speak "**Hide Contacts**" to exit Contacts. Contacts display:

- **Contact Name** — Number to the right of the contact's name.
- **Contact's name and SIP address** — Far right number.



Calling Commands

Speak "**Item (Number #)**" (The Far right number) to display a contact's name and **SIP address**.

Speak "**Call** + (**Contact's Name**)" or "**Item (Number #)**" (Number to right of the contact's name) to make a call.

6.7. Onsight Voice Commands

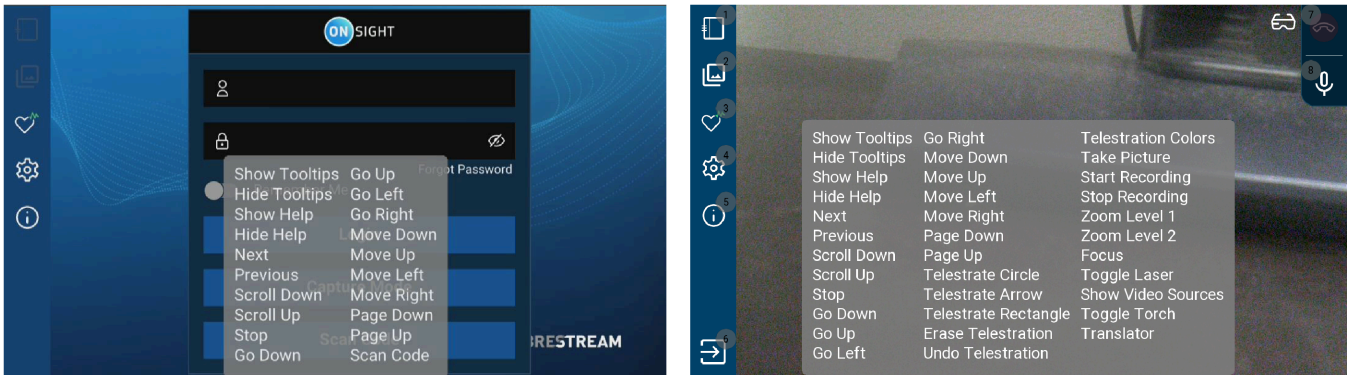


Figure 6-8 Show Help

Global Voice Commands can be activated from any application or screen using multiple languages. Use the **Show Help** command to display context sensitive commands. Conversely, use the **Hide Help** command to close the help window.

Onsight Voice Commands are accessible only within the **Onsight Connect for Iristick** application.

Table 6-1 Onsight Voice Commands

Voice Commands	Action
Show Help	Shows available voice commands
Hide Help	Hides available voice commands
Show Tool Tips	Shows the Tool Tips overlay
Hide Tool Tips	Hides the Tool Tips overlay
Focus	Applies auto-focus to the image
Hide Tool Tips	Hides the Tool Tips overlay
Take Picture	Take a picture from the current video
Show Contacts	Shows the contacts list
Hide Contacts	Hides the contacts list
Show System Health	Show/ hide the system health view
Hide System Health	Hides the system health view
Show Settings	Show Settings view
Hide Settings	Hides Settings view
Show Files	Shows the list of files
Hide Files	Hides the list of files
Show Info	Shows the Information view
Hide Info	Hides the Information view
Toggle Mic	Turns the microphone ON or OFF
Toggle Torch	Turns the camera light ON or OFF **Tip:** When the camera light is ON, the **Illumination** icon displays within the top-right corner of the View Finder.

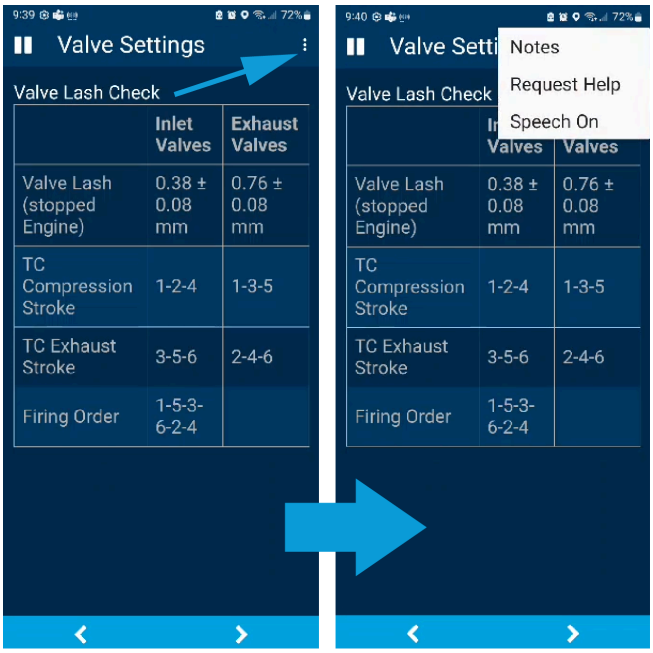
Table 6-1 Onsight Voice Commands (continued)

Voice Commands	Action
Toggle Laser	Turns camera laser ON or OFF **Tip:** When the camera laser is ON, the **Laser** icon displays within the top-right corner of the View Finder.
Erase Telestration	Erases the current telestration
Undo Telestration	Deletes the most recent telestration
Telestration Colors	Displays a pop-up menu that allows the user to define telestration color
Telestrate Arrow	Create a telestration arrow on the current video
Telestrate Circle	Create a telestration circle on the current video
Telestrate Rectangle	Create a telestration rectangle on the current video
Start Recording	Start recording the current video
Stop Recording	Stop recording the current video
Start Streaming	Start streaming the current video to others in the current call **Note:** When you are streaming video, the **Share Video** icon appears as a status indicator next to the **Hang Up** icon within the **Right Toolbar**.
Stop Streaming	Stop streaming the current video to others in the current call
Show Video Sources	Shows a pop-up with the available video sources: **Back**, **Front**, **Wide Angle**, and **Zoom**
Hide Video Sources	Hides the pop-up showing the video sources
Translator	Displays the Translator settings
Zoom Level 1	Zoom the video to level 1 (Normal size)
Zoom Level 2	Zoom the video to level 2 (2x digital zoom)

6.7.1. Onsight Flow

When working within Onsight Flow, you can use the **Request Help** command to launch **Onsight Connect** from within a workflow.

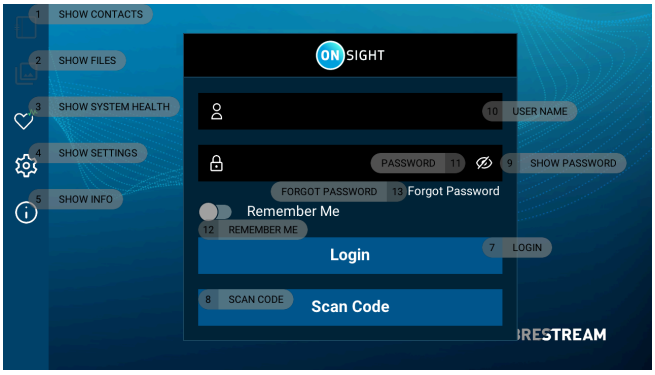
Tip: You can also click the **More Actions** **Request Help.**



6.8. Show Tool Tips

Use the command **Show Tool Tips** to display available Onsight commands on any screen within the application. Conversely, use the **Hide Tool Tips** command to dismiss the command list.

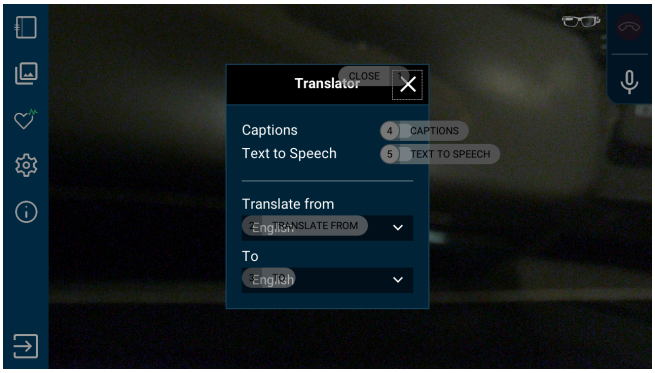
Tip: The first time **Show Tool Tips** is spoken, it displays only the voice command. Repeat by speaking **Show Tool Tips** again will display the voice command beside the **Item Number**.



6.9. Onsight Translator

Onsight Connect for Iristick provides **Natural Language Processing** (NLP) services. The user can display Onsight Translator by speaking "**Translator**". Enable **Captions** to display for a caption region and enable **Text to Speech** to display text when a participant is speaking. Use the **Translate from** and **To** drop-down menus to specify the **source** and **destination language** respectively. This feature can be used during a call and during the playback of recordings.

For more information, refer to the Onsight Translator Guide.



7. ONSIGHT CUBE OPTION

The Onsight Cube is an industrial wearable that can function in rugged environments and works with Onsight Connect running on iOS, Android, and Windows devices. Technicians can use Onsight Connect and the Cube to share video and audio for real-time collaboration with remote experts.

Additional Capability

Using a cube with Onsight Connect enables you to further enhance your existing capabilities by adding:

- Dual cameras
- Optical, thermal and fusion modes
- Spot temperature with laser precision pointing
- Emissivity support
- Enhanced Focus and Zoom controls

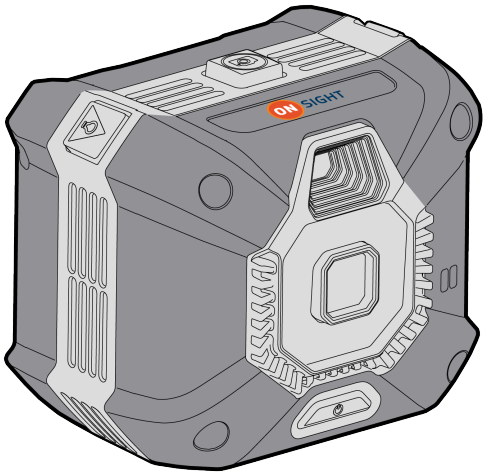


Figure 7-1 Onsight Cube

7.1. Bluetooth Pair With an Onsight Cube

To access a cube, *BT* must be enabled on the Ecom smart glasses device to configure the Cube.

To use *BT* to pair a Cube with an Ecom smart glasses device, you must:

1. Power On the Cube.
2. Log in to **Onsight Connect** on your host device.
3. Hold your host device close to the front of the Cube to BT pair.
4. You will hear a voice prompt **Begin Pairing** and **Host Connected** when complete.
5. Say **Connect** when the Invitation to Connect appears.
6. The Cube receives its *Wi-FI* direct configuration from your paired host device automatically. The connection status will be **Green**.

Refer to the Onsight Cube User Guide for further details.

7.2. Cube File Management

This section describes file management on the Cube.

Refer to the Onsight Cube User Guide for further details.

When downloading files from the Cube you will see the **Download Status** screen. Speak "**Files**" to return to the **Cube** tab.

7.3. Image Capture & Recording While Paired to a Cube

When your Ecom smart glasses is paired to a Cube, any images or video that you capture are stored locally on the smart glasses. They are saved in the **My Files** section of the **Files** tab. They are not saved in the Cube's local storage.

Tip: Any images and recordings saved while your Ecom smart glasses is paired to a Cube are stored locally on the smart glasses.

When operating the Cube in **Stand-alone Mode** all images and recordings are stored locally in the Cube's internal storage. These files can be accessed by pairing with the Cube and navigating to **FILES > Cube**. You can download files from the Cube to your Iristick by selecting the thumbnail image of the files and saying "**Download**" on the menu. Cube files can be downloaded or deleted from the Cube.

Once the files have been successfully downloaded from the Cube, they are placed within the **My Files** tab in a date stamped folder. All files downloaded from the Cube will have a **Cube** icon displayed on their thumbnail image.

APPENDICES

FAQs

Lookup Voice Commands

Question: How do I know what voice command to say or how to locate available voice commands in the Onsight app?

Answer: At any time, you can say “**Show Help**“ or “**Show Tool Tips**“ to see the available commands.

Capture Mode

Question: What is Capture Mode?

Answer: Capture Mode enables you to use Onsight Connect without a user account. You can capture content and share it later when you login with your user credentials. Once you login Capture mode is no longer available.

Call Participants Cannot hear me

Question: The Ecom smart glasses is responding to my voice commands but call participants cannot hear me?

Answer: The microphone can be muted within the Onsight application level. To un-mute the microphone speak “**Toggle Mic**”. The microphone icon in the upper right of the Viewfinder will change to indicate the mute status.

How do I make a call?

Question: How do I make a call?

Answer: Login to Onsight Connect. Display the Contacts panel if it is not already visible. Say the name of the Contact you wish to call or speak “**Show Tool Tips**“ then say the number displayed beside the handset icon of the contact you wish to call e.g., say "**Item 5**".

Streaming Video

Question: How do I stream video?

Answer: Once a call has been established say "**Start Streaming**", this will start the video stream from the Ecom smart glasses to the remote participants.

Language Support

Question: What languages are supported?

Answer: Onsight Connect supported languages include French, Chinese (Simplified), Japanese, German, Italian, Portuguese (Brazilian and Portugal), Swedish, Spanish, Russian and Korean. Voice commands are available only for the English and French languages.

For More Information

Please contact support@librestream.com or call 1.800.849.5507or +1.204.487.0612.

Iristick Specifications

Table 8-1 Iristick Specifications

Manufacturer/Model	**ECOM Visor-EX**
Ingress Protection (IP)	IP64
MIL-STD 810G	Yes
ANSI Z87.1	
ATEX	Zone 1/Division 1
Other	NA
Display and Optics	Monocular
Screen Resolution	640 x 400 *Organic Light-emitting Diodes (OLED)* display
Sensors	None
• **Eye Tracking**	None
• **Depth Sensor**	None
• **Image Stabilization**	None
Camera	6X Zoom Camera + 16 MP Front Camera
• **Video Resolution**	
Audio	
• **Speakers**	
• **Microphone**	4 Microphone Array
• **Noise Cancellation**	
Weight	6.35 *ounce(s) (oz)* / 180 *gram(s) (g)*
Fit	Helmet Mounted
• **Compatibility**	
Gestures/Advanced UI	None
• **Both Hands Recognition**	None
• **Gestures**	None
Voice Commands	Built in
Number of Languages	2 — English and French
Battery Life	Powered by Phone and external Pack (4400mAH)

Table 8-1 Iristick Specifications (continued)

Manufacturer/Model	ECOM Visor-EX
• **Replacement Battery**	
• **Charge While Using**	
Usability	Barcode/*QR Code* reader
• **Touchpad/Trackpad**	2 Axis touchpad
• **Buttons**	
• **Light/Flashlight**	Laser Pointer, *LED*
Memory	Based on Tethered phone (Smart EX 02 32GB + 128 *Gigabyte (GB) Secure Digital (SD)* Card)
Positioning	From Phone
External Ports	3.5 mm Audio jack

Glossary

American National Standards Institute

The American National Standards Institute (ANSI) is the private, non-profit organization that supports the development of technology standards across various industries in the United States.

American National Standards Institute (ANSI)

ANSI

ANSI Z87.1

American National Standards Institute (ANSI) standard Z87.1 classifies eye protection to minimize injuries from eye hazards. Eye protection is classified as impact or non-impact rated. Impact-rated eye protection must pass specific mass and high-velocity tests and include protection from the side. Non-impact rated eye protection does not protect the wearer from high mass and velocity hazards.

American National Standards Institute (ANSI) Z87.1

ANSI Z87.1

Atmospheres Explosible

ATmospheres EXplosible (ATEX) is the applied name for two European directives whose objective is to improve health and safety protection for workers at risk from hazardous environments. ATEX is derived from:

- **Directive 99/92/EC** also known as "ATEX 137" or the "ATEX Workplace Directive".
- **Directive 2014/34/EU** also known as 'ATEX 114' or "The ATEX Equipment Directive"

Atmospheres Explosible (ATEX)

ATEX

Augmented Reality

Augmented Reality (AR) can be defined as a system that fulfills three basic features: a combination of real and virtual worlds, real-time interaction, and accurate 3D registration of virtual and real objects.

Augmented Reality (AR)

AR

Bel

A Bel represents a unit for measuring sound intensity (Loudness) that is equal to 10 decibels.

Bel (B)

B

Bluetooth

Bluetooth (BT) is a unifying communication standard for short-range wireless communication that enables devices (Computers, mobile phones, and peripherals) to transmit data or voice wirelessly over a short distance.

Bluetooth (BT)

BT

Decibel

A Decibel (dB) is a unit of measure for the intensity or "Loudness" of sound measured in one tenth of a *Bel (B)*.

Decibel (dB)

dB

Gigabyte

A Gigabyte (GB) is a unit of storage capacity typically used for computer data and memory that equals one billion bytes of data.

Gigabyte (GB)

GB

Gram

A Gram (g) is a metric unit for mass or weight that is equal to one thousandth of a kilogram (kg). One metric gram is equivalent to 0.035 ounces (oz) using the imperial measurement system.

gram(s) (g)

g

A-weighted Decibels

A-weighted Decibels (dBA) represent sound pressure levels associated with the "Loudness" in air as perceived by the human ear. A-weighted Decibels have been adjusted for the varying sensitivity of the human ear to low and high audio frequencies.

A-weighted Decibels (dBA)

dBA

Human Machine Interface

A Human Machine Interface (HMI) is a user interface or dashboard that enables a human to engage and interact with a machine, system or device.

Human Machine Interface (HMI)

HMI

Ingress Protection Rating

Ingress Protection (IP) rating measures how well protected a device is from solid and liquid objects and is typically followed by a number. For example, IP64. The first number represents an ingress rating against solid foreign objects. The second number represents an ingress rating against multiple forms of moisture. The range includes 0 - 6 with a higher number providing greater protection.

Ingress Protection (IP)

IP

Light Emitting Diode

A Light Emitting Diode (LED) is a semiconductor light source that is used as a backlight. LEDs emits light when current flows through the device.

Light Emitting Diode (LED)

LED

Kilogram(s)

A kilogram (kg) is a metric unit for mass or weight that is equal to one thousand grams (g). One metric kilogram is equivalent to 2.2 pounds (lb) using the imperial measurement system.

kilogram(s) (kg)

kg

MIL-STD 810G

MIL-STD 810G is a military specification that guarantees a level of durability or "combat readiness" for technology based on a series of twenty-nine (29) tests. Most technology sold to the US military must be **MIL-STD 810G** compliant

MIL-STD 810G

Megapixel

A Megapixel (MP) represents one million pixels and is the unit of measure for the resolution of still images, video cameras, monitors and scanners.

Megapixel (MP)

MP

North Atlantic Treaty Organization

The North Atlantic Treaty Organization (NATO) is a collective agreement that was created in 1949 by the United States, Canada and several Western European nations to guarantee the collective freedom and security of its members using political and military means.

North Atlantic Treaty Organization (NATO)

NATO

Organic Light-emitting Diodes

Organic Light-emitting Diodes (OLED) are a type of *LED* that does not need a backlight to cause illumination because carbon is used as an organic material that acts as a natural source of light.

Organic Light-emitting Diodes (OLED)

OLED

Ounce(s)

An Ounce (oz) is a standard imperial unit of measure for volume or liquid that is used predominantly in the United States and United Kingdom. An Ounce is equivalent to $^{1}/_{16}$ of a Pound (lb). One standard imperial ounce is equivalent to 28.35 grams (g) using the metric system.

ounce(s) (oz)

oz

Pound(s)

A Pound (lb) is a standard imperial unit of measure for mass or weight that is used predominately in the United States and United Kingdom. One pound is equivalent to 16 Ounces (oz). One standard imperial pound is equivalent to 0.454 kilograms (kg) using the metric system.

pound(s) (lb)

lb

Quick Response Code

A Quick Response (QR) Code is a barcode that is easily read by a digital device. QR Codes store product, supply chain, and marketing information as a two-dimensional series of pixels located in a square-shaped grid. QR codes can be read by barcode scanners and smartphones.

Quick Response (QR) Code

QR Code

Radio Frequency

Radio Frequency (RF) refers to the portion of the electromagnetic spectrum where radio waves are generated from alternating current.

Radio Frequency (RF)

RF

Rugged Device

A Rugged Device represents a device that was engineered to tolerate the harshest environments. A rugged device can be described as semi-rugged (Business device with improved protection); Fully-rugged (Meets military grade specifications); and Ultra-rugged (Designed to withstand the harshest, absolute worst conditions).

Secure Digital

A Secure Digital (SD) card is a small flash memory card that is designed for high-capacity storage for various portable devices (GPS, cameras, and cellphones, etc.).

Secure Digital (SD)

SD

Specific Absorption Rate

Specific Absorption Rate (SAR) is a measurement for energy absorption by a human body when exposed to a radio frequency (RF) electromagnetic field. For example, when using a cell phone.

Specific Absorption Rate (SAR)

SAR

Wi-FI

Wi-Fi is often called WiFi or, wifi, Wi-Fi is short for Wireless Fidelity.

Wireless Fidelity (Wi-Fi)

Wi-FI

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