

ONSIGHT CUBE USER GUIDE



Librestream
Onsight Cube User Manual

Doc. #: 400335-11, rev. A

June 2021

Information in this document is subject to change without notice.
Reproduction in any manner whatsoever without the written
permission of Librestream is strictly forbidden.

Copyright Notice:

Copyright 2004-2020 Librestream Technologies Incorporated. All
Rights Reserved.

Patents Notice:

United States Patent # 7,221,386, together with additional patents
pending in Canada, the United States and other countries, all of
which are in the name of Librestream Technologies Inc.

Trademark Notice:

Librestream, the Librestream logo, Onsight, the Onsight logo,
Onsight Connect, Onsight Flow, Onsight Workspace, Onsight Cube,
Onsight Hub, Onsight Smartcam, Onsight Platform Manager and
Onsight Teamlink are either registered trademarks or trademarks
of Librestream Technologies Incorporated in Canada, the
United States, European Union and/or other countries. All other
trademarks are the property of their respective owners.

TABLE OF CONTENTS

INTRODUCTION	4
REQUIREMENTS FOR USE	4
OPERATING AMBIENT TEMPERATURE	4
HARDWARE FEATURES	4
FRONT VIEW	4
TOP VIEW	4
BACK VIEW	4
BUTTON FUNCTIONS	5
CHARGE THE ONSIGHT CUBE	6
CONNECTION STATUS	6
BATTERY LIFE	6
TURN POWER ON	6
TURN POWER OFF	6
BLUETOOTH PAIR WITH AN ONSIGHT CUBE	6
Wi-Fi PAIR WITH AN ONSIGHT CUBE	7
Wi-Fi DIRECT - Android and Windows	7
DIRECT Wi-Fi - iOS	7
Wi-Fi INFRASTRUCTURE	7
CUBE SETTINGS AND CONTROLS	8
Check for Updates	8
Security	8
Wi-Fi	8
Saved Cube	9
CUBE AUDIO	9
Cube Mic Audio	9
Bandwidth Control - Preferred Codecs	9
Viewer Window - Audio Control	9
Client Policy - Audio Control	9
Cube Audio Troubleshooting	9
CUBE IMAGES AND VIDEO	9
CUBE CONTROL IN AN ONSIGHT CALL	10
CUBE FUNCTIONS	10
CUBE FILE MANAGEMENT	11
TRANSFER FILES TO A WINDOWS PC	11
THERMAL IMAGES	12
BODY THERMAL MODE	13
Viewer	13
TROUBLESHOOTING	14
FAQs	14
FOR MORE INFORMATION	14

INTRODUCTION

The OnSight Cube is an industrial wearable accessory that works with the OnSight Connect application running on iOS, Android, and Windows devices.

Using the OnSight Cube and OnSight Connect, technicians can share video and audio from the Cube for real-time collaboration with remote experts.

The OnSight Cube features include:

- **Camera:** VGA, QVGA, D1, 720p and 1080p 30fps
- **Thermal Imager:** VGA, QVA
- **H.264/AVC**
- **USB:** File transfer
- **Integrated IEEE 802.11a/b/g/n (2.4/5.0 GHz)**
- **WiFi direct up to 200 meters**

This manual describes the OnSight Cube and how to use it with OnSight Connect for iOS/Android/Windows.

REQUIREMENTS FOR USE

- **OnSight Cube-R or Cube-EX**
- **OnSight 800 external battery charger**
- **OnSight Magnetic USB charging cable**
- **OnSight Connect application running on an iOS, Android or Windows device**
- **Bluetooth and Location Services must be enabled on the OnSight Connect host device to configure the Cube**

If you have forgotten your OnSight Connect Password, press 'Forgot Password' at the login screen to receive an email with a temporary Password. If you do not have an OnSight Connect user account you may use **Capture Mode**. Contact your system administrator to get an OnSight Connect user account.

Capture Mode provides offline use of the Cube without requiring an OnSight Connect login, OnSight calls are not supported in Capture mode.

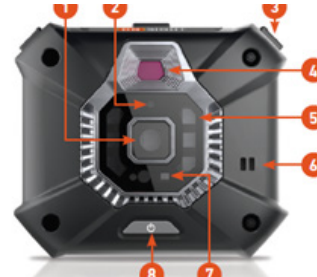
OPERATING AMBIENT TEMPERATURE

The Cube operates within an ambient temperature range. If the Cube is below the minimum operating temperature the voice prompt will notify you it has entered Warming mode. The Cube will vibrate every 5s and flash the yellow Charging Indicator until the minimum operating temperature is reached. It will then turn on. The Cube will power off automatically if the operating temperature limit is exceeded.

Please refer to the OnSight Cube Technical Specs for Operating Ambient Temperature guidelines.

HARDWARE FEATURES

FRONT VIEW



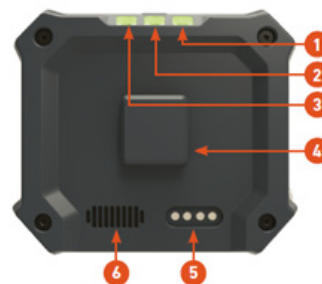
1. Camera
2. Laser
3. Buttons
4. Thermal Imager
5. Illumination
6. Microphone
7. Stream LED
8. Power Button

TOP VIEW



1. Camera Mode/Recording
2. Image Capture/Sharing
3. Illumination/Laser

BACK VIEW






1. Charging Indicator
2. Connection Indicator
3. Camera Mode
4. Mount Connector
5. Power/USB Port
6. Speaker

BUTTON FUNCTIONS

The following table describes button functions based on the connection state of the Cube.

Standalone operation allows a user to operate the Cube when it is not paired with Onsite Connect on a host device.

Paired operation occurs when the Cube is paired with Onsite Connect on a host device.

BUTTON FUNCTIONS	
 CAMERA MODE/RECORDING	
STANDALONE	PAIRED
PRESS Start/Stop local recording	PRESS Start/Stop local recording on host device
HOLD Toggle Video/Thermal/Fusion mode	HOLD Toggle Video/Thermal/Fusion mode
 IMAGE CAPTURE/SHARING	
STANDALONE	PAIRED
PRESS Capture Local Image	PRESS Capture Image on Host Device
	HOLD Capture and Share Image/Decline Call
 ILLUMINATION/LASER	
STANDALONE	PAIRED
PRESS Toggle laser	PRESS Toggle laser
HOLD Toggle Illumination	HOLD Toggle Illumination
TAP ANY BUTTON TO ACCEPT AN INCOMING CALL	
HOLD BOTH THE CAMERA MODE AND ILLUMINATION BUTTONS TO UNPAIR FROM THE HOST	

CHARGE THE ONSIGHT CUBE

Connect the power adapter to the Power Port and allow the battery to fully charge. When the Cube is powered off, charging will take approximately 4 hours. The battery will charge at a slower rate if the Cube is powered on.

CHARGING INDICATOR:

While Battery is Charging	
Green	100%
Orange	Less than 100%

On Battery Power	
Green	Over 40%
Orange	Less than 40%
Red	Less than 20%
Red (flashing)	Less than 10%

You can operate the Onsight Cube while it is plugged into the power adapter once it has reached a minimum battery level of 10%.

CONNECTION STATUS

CONNECTION STATUS INDICATOR:

Blue (flashing)	Waiting to Bluetooth pair to a host device.
Blue	Cube is connected to its wireless network but is not paired to its host device.
Green	Cube is connected to its host device and its wireless network.
White (flashing)	Firmware update in progress, battery: 50% or greater for update required. Do Not Power Off during the Update.

CAMERA MODE INDICATOR:

Green	Video mode
Red	Thermal mode
Orange	Fusion mode

BATTERY LIFE

Battery life can vary depending on the selected media configuration, use the table below as a guideline.

Media Configuration	Run Time (Hrs)
QVGA, 10fps, 1Mbps, Laser On	4.5
VGA, 10fps, 1Mbps, Laser On	4.5
1080p, 10fps, 1.5Mbps, Illumination On, Laser On	3
D1, 10fps, 1Mbps, Illumination On, Laser On	3.5
1080p, 10fps, 1.5Mbps, Illumination On, Laser On,	2.75
Standalone recording: 1080p, 30fps, 6Mbps, Laser On	2.25
Fusion, 720p, 30fps, No Illumination, No Laser	3.5

*Battery Life can be extended by turning the Laser and Illumination off.

TURN POWER ON

Press the Power Button for one second to turn the Onsight Cube ON.

TURN POWER OFF

Press the Power Button for one second to turn the Onsight Cube OFF. The Cube automatically powers off after 5 minutes of inactivity.

BLUETOOTH PAIR WITH AN ONSIGHT CUBE

Bluetooth (BT) and Location Services must be enabled on the Onsight Connect host device to configure the Cube.

To BT pair a Cube to an Onsight Connect host device:

- Power on the Cube.
- Log in to Onsight Connect on your host device.
- Hold your host device close to the front of the Cube to BT pair.
- You will hear a voice prompt 'begin pairing' and 'host connected' when complete.
- Press 'Connect' when the 'Invitation to Connect' appears.
- If Wifi Direct connections are supported, the Cube receives its network configuration from your paired host device automatically. The connection status will be GREEN.

See **Wi-Fi PAIR WITH AN ONSIGHT CUBE** for details on manually configuring the wireless connection.

- You will hear a voice prompt 'Wi-Fi connected'.
- Once Wi-Fi paired, the Cube is automatically selected as the video source.
- The Cube will automatically Wi-Fi pair with that host device the next time you log in to OnSight Connect.

Wi-Fi PAIR WITH AN ONSIGHT CUBE

The wireless network configuration for the Cube is completed over the initial Bluetooth connection. Once the wireless configuration is complete, the Cube and host device are Wi-Fi paired. All OnSight data communication between the Cube and host device is over the wireless network.

The options for the Cube's wireless connection includes:

- WiFi-Direct
- Wireless Infrastructure

Wireless Connection Type	Supported devices
Wifi Direct (Automatic configuration)	Android, iOS, and Windows
Wifi Infrastructure (Manual Configuration)	Android, iOS, and Windows

Wi-Fi DIRECT - Android and Windows

Wifi Direct is a Peer to Peer connection between the Cube and your Android or Windows device. When using Android or Windows devices, this is the preferred method for most situations, e.g., the Cube is used as a wearable device.

The Cube automatically receives its Wifi Direct configuration from your BT paired host device.

- Press 'Connect' when the 'Invitation to Connect' appears. The connection status will be GREEN.
- You will hear a voice prompt 'WiFi connected'.
- Once Wifi paired, the Cube is automatically selected as the video source.
- The Cube will automatically Wi-Fi pair with that host device the next time you log in to OnSight Connect.

DIRECT Wi-Fi - iOS

Direct Wi-Fi is a Peer to Peer connection between the Cube and your iOS host device. When using iOS devices, this is the preferred method for most situations, e.g., the Cube is used as a wearable device. **However, when the Cube is connected to Direct Wi-Fi with an iOS device, the iOS device must use a cellular connection in order to place OnSight Calls.** The iOS device's Wi-Fi network connects directly to the Cube and is not available for use as an internet connection.

- The Cube automatically receives its Direct Wi-Fi configuration from your BT paired iOS host device.
- Press 'Connect' when the 'Invitation to Connect' appears. The connection status will be GREEN.
- You will hear a voice prompt 'Wi-Fi connected'.
- Once Wifi paired, the Cube is automatically selected as the video source.
- The Cube will automatically Wi-Fi pair with that host device the next time you log in to OnSight Connect.

Wi-Fi INFRASTRUCTURE

Wi-Fi Infrastructure is a manually configured wireless connection between the Cube and your network infrastructure, e.g., Access Point or Hot Spot.

The Cube must be connected to the same network as your host device.

- Once Bluetooth pairing has completed, select **Wi-Fi-Status**.
 - Select the network you want the Cube to connect with from the Available Networks list. This must be the same network to which your host device is connected.
 - Enter the password for the network and press **Join**.
- You will hear a voice prompt 'Wi-Fi connected'.
- Once paired, the Cube is automatically selected as the video source.
- The Cube will automatically Wi-Fi pair with that host device the next time you log in to OnSight Connect. The Cube and host device must be on the same network.

The Cube will remain Wi-Fi paired to the Host as long as they are on the same network with each other. They will automatically Wi-Fi pair to each other whenever they are on the same network.

If the Cube is not currently Wi-Fi paired to a host, it is available to BT pair with another host device running OnSight Connect. The Cube may be BT paired to multiple host devices, but a host device may only be BT/Wi-Fi paired to a single Cube. Use **Settings-Forget Pairing** to unpair with a Cube.

CUBE SETTINGS AND CONTROLS

The Cube is configured using the OnSight Connect application while paired with a host device.

Settings

Cube Settings are controlled using the OnSight Connect software on a paired host device.

Using OnSight Connect on the host device, select the SETTINGS button on the Dashboard:

- Tap Cube
- View details such as pairing state, name, version, battery level, and voice prompt settings
- Wifi: Status, IP address, and MAC address
- Save Pairing: Name and Forget Pairing

Details

Details include:

- Name
- Firmware Version
- Battery
- Power Off Timeout
- Voice Prompts and Volume
- Check for Updates

Power Off Timeout

Set the period of inactivity that the Cube will wait before powering off.

- Default: 10 minutes
- Options: 5 - 30 minutes, Never.

Voice Prompts

Voice Prompts are enabled by default. They are used to indicate the current status of the Cube.

- Go to Settings - Cube.
- Select the Voice Prompt you wish to use: UK or US, Female or Male. Set to None to disable Voice Prompts.
- Set the Voice Prompt Volume slider to control the Cube's volume.

Voice Prompt

US Female ▼

Voice Prompt Volume

10

Check for Updates

To download the latest firmware update for the Cube press the 'Check for Updates...' button..

- Press 'Check for Updates...'
- Follow the onscreen instructions.

WARNING: DO NOT POWER OFF THE CUBE DURING A FIRMWARE UPDATE. ONCE THE UPDATE HAS COMPLETED THE CUBE WILL REBOOT AUTOMATICALLY.

Security

Install Certificates

You may install certificates on the Cube if they are required for Wi-Fi configuration.

- Use File Sharing in iTunes to install certificates to iOS host devices. This will make them available for use on the Cube.
- For Android, copy the certificates to the host device's storage. Pressing the Install Certificates button will give instructions on where the certificates need to be stored on the host device.

Remove All Certificates:

- This will delete all certificates that have been installed on the Cube.

Downloads

Files that have been captured in Standalone mode (i.e. when not paired with a host device) can be downloaded from the Cube to the Connect app. This includes still image jpegs and video recordings.

- Go to Files-Cube.
- Select a Folder or Files.
- Select Download from the menu.

The files will be saved to the My Files tab and can be identified by the Cube icon displayed on their thumbnail image. If multiple files are downloading you can check their status by clicking on the Cube status icon.

To transfer files from the Cube to a Windows PC using an USB cable you must first login to OnSight Connect and pair with a Cube. Use the File Explorer to access the OnSight Connect files. Select Cube-Internal Storage- DCIM - Call Folder.

For iOS, use iTunes to access File Sharing under the OnSight Connect in the Apps list. Save the Calls folder to the PC.

For Android, use the File Explorer to access Cube files.

Wi-Fi

- Configure Wi-Fi
- Choose and configure the Cube's Wi-Fi network. This should be the same network to which this device is connected.
- Wi-Fi Direct (Android)
- Direct Wi-Fi (iOS)
- Frequency
- IP Address
- MAC Address

Saved Cube

Includes:

- Name
- Forget Cube - Select to forget the pairing with a Cube

Reset

Includes:

- Reset Network - press to clear all network settings
- Factory Reset - press to clear the Cube of all configuration and data files

Tip: To perform a factory reset using the buttons on the Cube, turn off the Cube. Hold down the Illumination and Camera mode buttons then press the On button.

System Health

The color of the System Health button provides a visual indication of the system readiness. If the button is green, all the underlying services are available. If the button is red, one or more of the services is not available and could cause an issue. Select Details to view the Cube Details:

- Cube status
- Battery Level
- Firmware version

CUBE AUDIO

This section describes how to configure and control Cube Audio while in an OnSight Call. The Cube's Mic is the sound source for the video audio track. Your host device's microphone is the sound source for the voice audio track.

Cube Mic Audio

The Cube's microphone is only active when:

1. The Cube is paired to a host device and is the video source.
2. The Cube is recording video in stand alone mode.

To make sure the Cube's Mic is enabled and capturing sound, confirm the following **Settings** are enabled in the Connect app.

Bandwidth Control - Preferred Codecs

Cube Audio is active only when Subject Audio is enabled by the OnSight Connect App. Set the Bandwidth Control - Preferred Codecs as follows to enable Cube Audio.

- Subject Audio: Default (G.711) or Low Bit Rate (GSM).

Viewer Window - Audio Control

Cube Audio can only be heard when Subject Audio is enabled by the OnSight Connect App. When streaming Cube Video or playing back a Cube recording, you can control the playback Audio in the Viewer Window. Use Playback Audio to mute/unmute the Cube Audio.

- Playback Audio - when streaming video or watching a recording, this option will mute/unmute the audio coming from the video stream or recording. You will still hear the main Conversation Audio.

Client Policy - Audio Control

Your OPM Administrator may control your Subject Audio settings by using a Client Policy. The Client Policy is applied whenever you are logged in to your OnSight client app.

Cube Audio Troubleshooting

If your call participants are unable to hear Cube Audio when in a call check your Settings to confirm Subject Audio is enabled. If not, enable Subject Audio. You may need to contact your OPM Admin to get permissions to edit the settings.

If you are receiving video from a Cube user in a call and cannot hear Cube Audio confirm Playback Audio is not muted in the Viewer window's Audio settings.

CUBE IMAGES AND VIDEO

When paired with a host device, the Cube supports specific resolutions depending on the video mode: Optical or Thermal.

If a media configuration is chosen that does not include a resolution supported by the Cube then the closest resolution supported by the Cube will be used.

Paired mode	Resolution
Images	Image Capture Setting*
Optical	QVGA, VGA, D1, 720p, 1080p
Thermal (Fusion)	QVGA, VGA

*Image Capture Resolution can be set to L, M, H or Max. This will depend on the supported resolutions of the host device.

Standalone mode	Resolution
Images	13 MP (4208x3120)
Video (Optical)	1080p 30fps
Video (Thermal/Fusion)	VGA

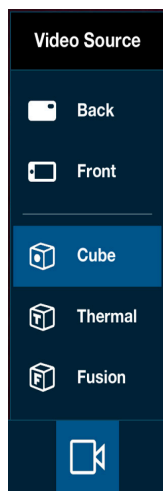
CUBE CONTROL IN AN ONSIGHT CALL

This section describes how to control the Cube in an Onsight Call.

Selecting the Cube as the Video Source

Press the Video Source button to change between Cube, Cube Thermal and Cube Fusion as the video source.

- Cube: Video - VGA, QVGA, D1, 720p and 1080p 30fps
- Thermal: Thermal imager - VGA, QVGA
- Fusion: Thermal imager including object edge detection



TIP: When the Cube is disconnected from a host device, the Onsight Connect application will automatically switch back to the host's internal camera as the video source.

Thermal

Thermal mode enables the Cube's thermal imager producing images based on object temperature differences. See the Thermal Images section for details.

Fusion

Fusion enhances Thermal images by applying edge detection to objects. For the best edge detection alignment of the thermal image, objects of interest should be the point of focus. Tap the Viewfinder to focus on the object.

The focus region will be shown on the Viewfinder while the camera is focusing.

Use the slider to manually align the edge with the thermal image when focusing on the object of interest is difficult.

Note that closer objects, 20 cm or less, may cause the upper portion of the field of view to appear misaligned. Keep the object of interest in the center of the screen for the best alignment. Use the slider to make manual adjustments.

TIP: To align close objects with edge detection, tap and hold the Viewfinder to place the spot temperature indicator on the object of interest.

CUBE FUNCTIONS

Press the Cube button on the control bar to access the Cube functions.

Spot Temperature

When in Thermal or Fusion modes, tap and hold the Viewfinder to place the spot temperature indicator on a location.

Temperature

To select the Temperature display when in Thermal or Fusion modes, tap the Spot Temperature button to toggle between Celsius or Fahrenheit.

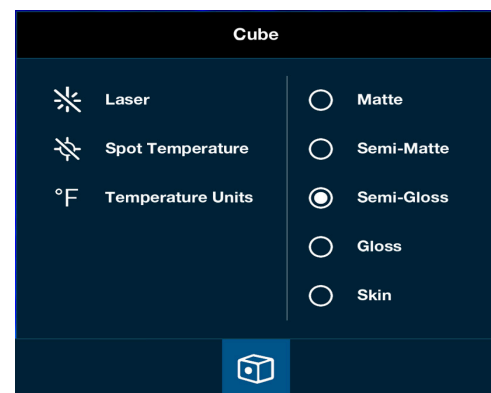
Laser

To enable the Laser pointer press the Laser button.

Emissivity

This setting adjusts the thermal imager's temperature reading based on an object's ability to emit heat (thermal energy). Select the setting which best describes the object's surface:

- Matte (dull, flat, not shiny)
- Semi-Matte (dull with a slight shine)
- Semi-Gloss (more shine than Semi-Matte)
- Gloss (shiny)
- Skin (Body Thermal mode)



Focus

The Cube will auto focus on the center of the Viewfinder when the Cube is the video source. Objects can not be closer than 10 cm (or 4 inches).

In Fusion mode with Spot Temperature enabled, the Cube will focus on the location of the Spot Temperature placement.

Zoom

Press the Zoom button to adjust between 1X and 3X Optical Zoom.

Note: Optical Zoom is not supported when using Thermal or Fusion modes. You may use pinch gestures to digitally scale and pan the Thermal image.

Image Capture

When the Cube is the video source, image capture is dependent on its selected video mode. The optical camera will capture images up to a maximum resolution of 13MP. The thermal imager will capture images up to VGA.

CUBE FILE MANAGEMENT

This section describes file management on the Cube.

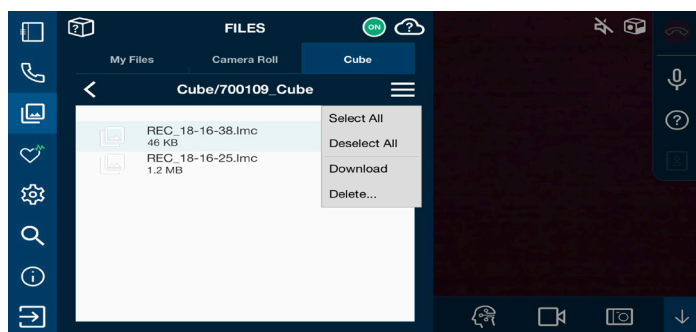
Image Capture and Recording while Paired to a Cube

While paired to a Cube any captured images or video recordings are stored locally on the host device. They will be saved in the **My Files** section of the **Files** tab. They are not saved in the Cube's local storage.

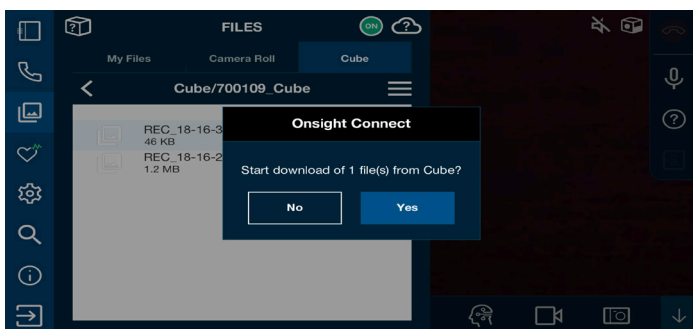
Any images and recordings saved while paired to a Cube are stored locally on the host device (iOS or Android).

When operating the Cube in **Stand-alone mode** (i.e. not paired to a mobile device) all images and recordings are stored locally in the Cube's internal storage. They can be accessed by pairing with the Cube and going to **FILES-Cube**.

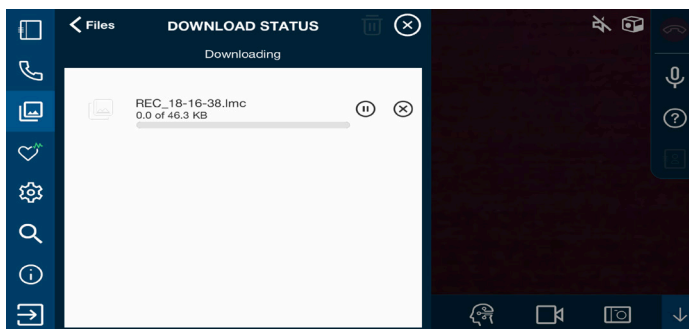
You may download files from the Cube to your host device by selecting the thumbnail image of the files and pressing **Download** on the menu. Cube files may be downloaded or deleted from the Cube.



You will then be prompted whether to start the download.



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



Once the files have been successfully downloaded from the Cube they will be placed in 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.



TRANSFER FILES TO A WINDOWS PC

To manage Cube files directly from a PC:

- Power on the Cube.
- Pair to the Cube with your mobile device running the On Sight Connect application.
- Attach the USB/Charging cable to the Cube and connect the cable to your Windows PC's USB port.
- Open File Explorer on your Windows PC.
- Navigate to the **Cube/Internal Storage/DCIM** folder to copy files to folder on your Windows PC.

THERMAL IMAGES

The Thermal and Fusion modes use the built-in Thermal Imager to capture Thermal Video and Still Images. The Thermal Imager captures the heat being radiated from an object's surface and approximates the temperature to create a picture of the heat signature coming off of its surface.

So how does a thermal imager capture the temperature of objects accurately? The answer is by knowing the object's ability to emit heat also known as its Emissivity. By setting the Emissivity value, you are telling it how to interpret the heat coming off of an object.

Emissivity

Emissivity is the measure of how efficiently a surface emits heat (thermal energy). In order to accurately approximate an object's temperature, the Cube's thermal imager must know the emissivity of the object. Emissivity is expressed as a value between 0 and 1.0. The higher an object's Emissivity, the more heat it gives off.

Different objects emit heat differently from their surfaces. Two objects that are the same temperature can look like they are different temperatures in a Thermal Image because they emit heat at different rates. For example, if you take a picture of a BBQ, the black painted surfaces will appear hotter than the shiny metal portion of the BBQ even though they are the same temperature. Shiny metal does not emit heat as readily as a flat black painted surface.

So if you've set Emissivity to Gloss, the spot temperature tool will accurately report the temperature for the shiny metal part of the BBQ but will not report accurately for the black painted surfaces.

By setting Emissivity to a specific value, you are telling the thermal imager what type of object you are observing and therefore how to interpret the temperature.

The Emissivity setting adjusts the thermal imager's temperature reading based on an object's ability to emit heat (thermal energy). For the most accurate temperature readings, select the setting which best describes the object's surface:

- Matte (≥ 0.90)
- Semi-Matte (0.70 - 0.90)
- Semi-Gloss (0.45 - 0.70)
- Gloss (0 - 0.45).
- Skin (0.98)

The selected Emissivity will also adjust the Temperature range displayed on the Viewer.

When using Thermal or Fusion modes, select the Emissivity value that best describes the surface of the object.

Note that comparing objects with different Emissivity values will not yield accurate temperatures unless you adjust the Emissivity setting for each object before using the Spot Temperature tool.

Emissivity Settings

Use the table below to best approximate the Emissivity of objects.

Object	Emissivity Setting
concrete wood rubber tile (ceramic) iron (rusted) water (liquid) soil paint plastic	Matte
Steel (Oxidized) Black Enamel Paint	Semi-Matte
Stainless Steel Styrofoam	Semi-Gloss
Steel (Galvanized) Steel (Mild) Zinc (Galvanized) Aluminum	Gloss
Skin - Inner Can- thus (the inner eye socket)	Skin (Body Thermal Mode)

Fusion mode

Fusion combines the outline of objects with their thermal image. The alignment is automatic but depending on the distance to the object it may need to be manually adjusted using the slider.

Use the slider to adjust the outline of objects with their thermal image.

To return to automatic alignment tap the X to the right of the slider.



BODY THERMAL MODE

When the Cube is in Thermal or Fusion mode, selecting Skin as the emissivity setting puts the Cube into **Body Thermal** mode. This allows temperature screening of individuals. Body Thermal mode displays an onscreen color bar indicating the body temperature range to guide relative temperature comparisons. Each step represents 0.6°C or 1°F. Monochrome coloring in the image indicates objects that are outside of the normal body temperature range.

The most accurate area of the body for skin temperature readings is the area adjacent to the inner **canthus** of the eye (the area between your nose and eye socket). Glasses must be removed to get an accurate reading from the canthus of the eye.

Body mode distinguishes relative temperature differences within +/- 0.6°C or +/- 1°F. A thermal reference target of 35°C / 95°F is used to identify relative temperature differences.

Refer to the OnSight Cube - Body Temperature Screening Guidelines for details on using the thermal reference in conjunction with Body Thermal mode.

Viewer

When using the OnSight Cube with the Skin emissivity setting the Viewer will display a color bar with the normal temperature being in the middle of the bar. Each step in the bar is equivalent to a 0.6C change in temperature. Matching the temperature color of the canthus (eye socket) to the color bar can be used to approximate an individual's body temperature.

Abnormal body temperatures can be either below or above the average range, with common indicators of fever being an oral temperature above 37.6C (99.7F).

If you are intending to measure skin temperature for the purpose of screening, please consult regional health authorities for guidance on choosing a threshold temperature and proper implementation of a test system.

Please refer to the OnSight Cube - Body Temperature Screening Guidelines for further details.

TROUBLESHOOTING

Pairing with the Cube

Your host device must have Bluetooth enabled in order to pair with a Cube. You must have either Android v5.1 or higher, iOS v10 or higher or Window v10 or higher installed.

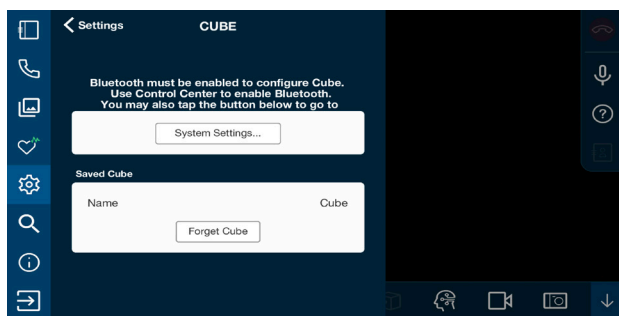
Symptoms

When OnSight Connect is not pairing with the Cube, one or all of the following is occurring:

- System Health: Cube is not connected.
- Settings-Cube: Pairing state is not connected.
- Cube's Connection Indicator is NOT SOLID GREEN.

Solutions

- Update your OS. Your host device may not be running the minimum required Android, iOS, or Windows version in order to connect to the Cube.
- Move the Cube closer to your smartphone. The Cube and host device may not be close enough to establish a Bluetooth connection.
- Configure the Wi-Fi network. If the Cube can not establish a Wi-Fi-Direct connection with the host device, go to Settings-Cube-Wi-Fi and tap on Status to select a Wifi-Infrastructure access point to connect.
- Bluetooth must be enabled to configure the Cube.
 - For iOS, use the Control Center to turn on Bluetooth.
 - You may also need to tap the System Settings button to go to Settings to enable **Bluetooth** and **Allow New Connections**.



If Still Unable to Pair with the Cube...

Hold down both the Video and Illumination buttons at the same time to forget the Cube pairing and retry. You may also go to **Settings-Cube-Forget Cube** to reset the pairing.

Cube Video not Visible

Symptoms

Onsight Connect is paired with the Cube but the video from the Cube is not visible in the viewfinder.

Possible Causes

- The host device is paired with the Cube but has not completed its connection to the Cube over the Wifi network. Wait a few moments for the Wi-Fi connection to establish.
- The Cube has not established a Wifi-Direct connection with the host device. Go to Settings-Cube-Wi-Fi and tap on Configure Wi-Fi to select an Available Network. Enter the password to join the network.
- The Cube has not been selected as the video source in the viewfinder. Press the Video Source button to select Cube, Cube Thermal or Fusion.

FAQs

How do I Pair with the Cube?

Login to OnSight Connect and turn on the Cube. When the Cube's voice prompt says 'System Ready', hold the cube within close proximity to the host device. This will initiate the pairing process.

Bluetooth and Location Services must be enable on your host device, if any services are turned off you will be prompted to enable them.

How do I stream video from the Cube?

Login to OnSight Connect and turn on the Cube. When the Cube is paired with a host device, it automatically becomes the video source. Place an OnSight Call to stream video to a remote team member.

How do I factory reset the Cube?

When the Cube is powered off, hold both the Video and Illumination buttons down then press the Power button. The Cube will reset and delete all files in local storage.

How much does the Cube weigh?

The Cube weighs 260 grams which is 0.57 lbs.

FOR MORE INFORMATION

For support please contact support@librestream.com or call **1.800.849.5507** or **+1.204.487.0612**.

