INA-LC100
User Guide

Contents

Introduction

LightCast is an easy to use set of applications designed to maximize the connectivity and interactivity of your InFocus display.

Available features

Document reader

- Documents (doc, docx, ppt, pptx, pdf, txt, xls, xlsx)
- Pictures (bmp, jpg, jpeg, png)
- Videos (avi, flv, mkv, mov, mpg, mp4, ts, wmv, 3gp)

Wireless display (AirPlay, LightCast, Miracast)

Whiteboard

Internet browser

Network control (if display is equipped with a wired network connector)

USB-A connectors which can be used for:

- USB storage device (such as a thumb drive, camera, or external hard drive)
- Touch device (such as a touchpad)
- Wireless USB keyboard/mouse

Current limit on both connectors is 1A.

Accessories

- International power cord with country-specific adapters
- Remote control (no batteries are included)
- HDMI cable
- Velcro strips (3)
- User manual

System Setup

Mounting

If desired, the InFocus hub can be mounted to the back of the display. To do so, attach the velcro strips onto back of hub per the illustration. Then attach it to the back of display being careful not to block display vents.
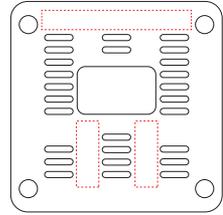
Note: When mounted to the back of the display, we recommend using the display to control the InFocus hub instead of the remote.

Connectivity

1) Connect the LightCast hub to the desired devices per below. Note: To use all the LightCast features, you must connect a mouse and keyboard to the LightCast hub, or connect the LightCast hub to an InFocus touch display.

Connect to InFocus touch display

HDMI cable

Optional: Connect USB cable to InFocus touch display

Ethernet cable

Router

Power adapter
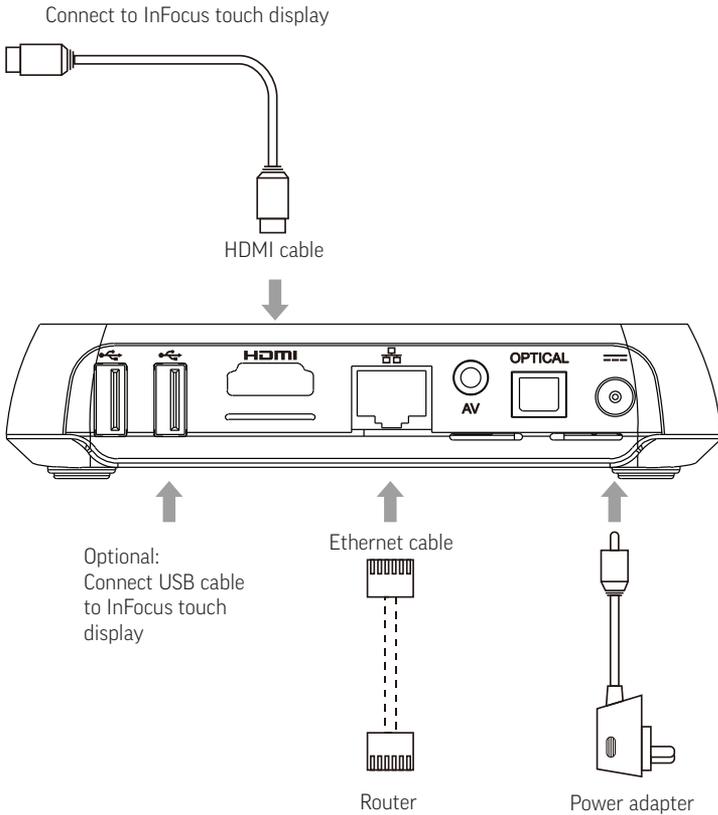
2) Turn on the InFocus hub when the indicator light is blue. The main menu appears in about 30 seconds.

Remote Control

Use the remote to control the LightCast hub. **Note**: To use all the LightCast features, you must connect a mouse and keyboard to the LightCast hub, or connect the LightCast hub to an InFocus touch display.

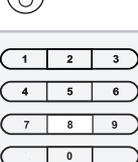| Remote key	Description
Power button	**Power**: Click to turn on/off.
SET	**SET**: Not functional on this model.
TV IN	**TV IN**: Not functional on this model.
SETUP	**SETUP**: Click to access the Settings options.
APP	**APP**: Not functional on this model.
VOL- VOL+	**VOL**: Click to decrease/increase the volume.
Home button	**Home**: Click to get back the main menu.
Return button	**Return**: Click to return back to previous menu.
Navigation / OK	**Navigation**: Click to navigate left/right/up/down, and click OK to confirm your selection.
Menu button	**Menu**: Click to choose function menu of corresponding application in video, music, photo and website.
Mouse button	**Mouse**: Click to use the navigation button as a mouse.
Number pad 1-9, 0	**Number**: Click to select a number.
Mute button	**Mute**: Click to turn down the volume.
Backspace button	**Backspace**: Click to backspace the input.

Registration

1) Turn on the LightCast hub.

2) Press the **Source** button on the remote or keypboard.

3) Navigate to **LightCast**.

4) Press the **Enter/Select** button on the remote or keyboard. The LightCast registration welcome page displays.

5) Click the arrow.

6)   Enter the information for registration using either a wireless keyboard/mouse (not included) or the on screen keyboard and remote. Click the right facing arrow.
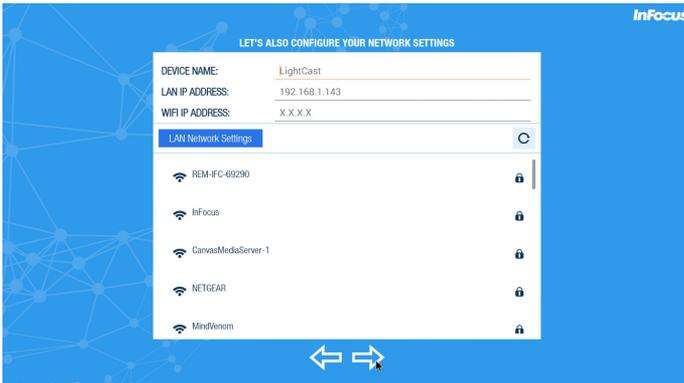
7)   Use a keyboard/mouse or on screen keyboard and remote to rename the device. This is useful to differentiate between different displays that have LightCast enabled.

8)   If equipped, the Wired LAN IP address is displayed.

9)   After the local SSIDs are displayed, log onto a wireless network:
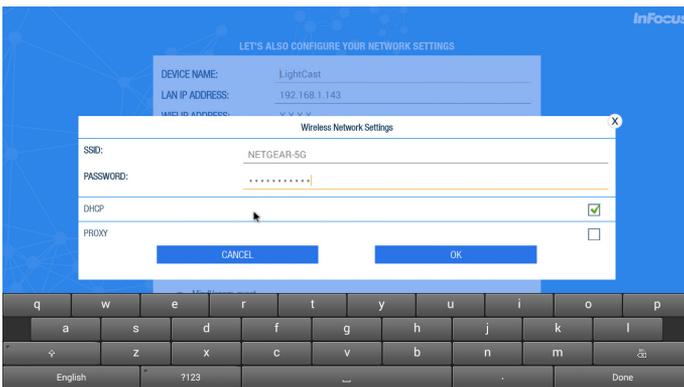
10)   Highlight an SSID.

11)   Press **Select/Enter**.

12)   If the SSID is encrypted, enter the password.

13) The word "Connected" displays below the SSID when the connection is made. A green check-mark displays next to saved SSIDs.
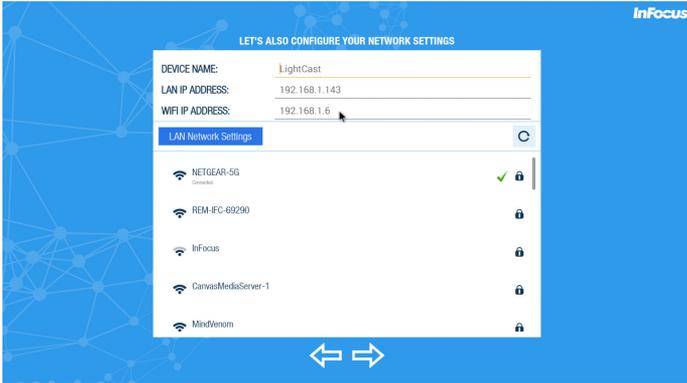
14) If a software update is available, an update window displays. Click **Update** and follow the prompts to complete the update process.

15) When registration is complete, the LightCast home page displays.
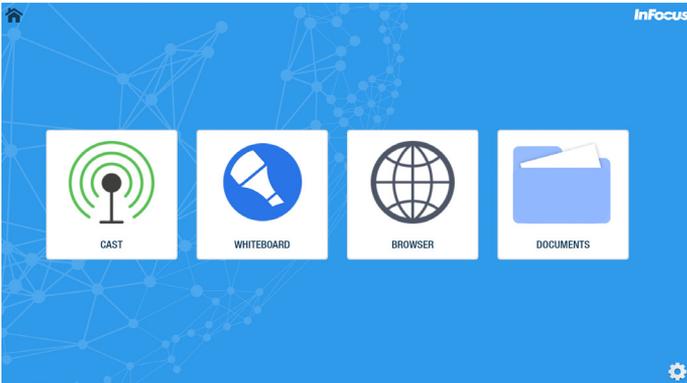
Basic Navigation

Using the remote and keyboard

1) Use the arrow keys to highlight items in LightCast.

2) Press the **Select** button on the remote or the **Enter** button on the display to select the highlighted item.

3) Press the **Esc** button on the remote to back out of the currently running item.

4) Press the **Auto Image** button on the remote or **Auto** button on the display to return to the LightCast home screen.

Using the on screen keyboard

1) In the desired field, highlight and click **Select** using the keyboard or remote.

2) The on screen keyboard is displayed.

3) Use the arrow keys to highlight characters.

4) Click **Select** when the correct character is highlighted.

5) After each field is completed, highlight and click **Done** to go to the next field.

Using a mouse and keyboard

1) Plug a mouse and keyboard into an available USB-A connectors on the display.

2) Use the mouse and keyboard as you normally would.

Document Viewer

The Document Viewer allows you to display images, files, and videos from your display's internal memory or from a USB thumb drive.

Supported document types

Supported File Types	File Extensions
Images	.jpg, .jpeg, .bmp, .png
PowerPoint	.ppt, .pptx
Excel	.xls, .xlsx
Word	.doc, .docx
Adobe PDF	.pdf
Video files	.avi, .flv, .mkv, .mov, .mpg, .mp4, .ts, .wmv, .3gp
Other files	.txt

To access the Document Viewer follow the instructions below:

1) Turn on the display.
2) Press the **Source** button on the remote or keyboard.
3) Navigate to **LightCast**.
4) Press the **Enter/Select** button on the remote or keyboard. The LightCast home page displays.
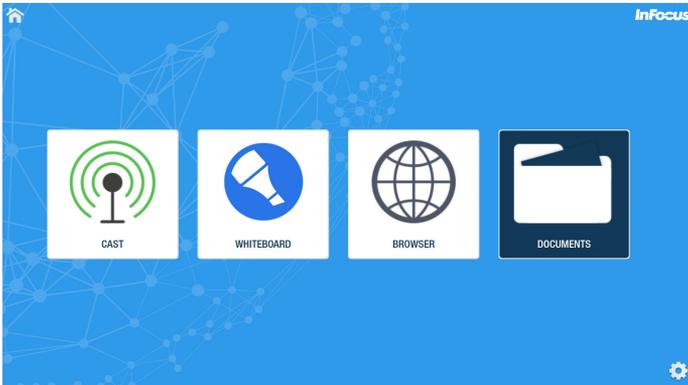
5) Navigate to **Documents**.

6) Press the **Enter/Select** button on the remote or keyboard. The Document Viewer displays.
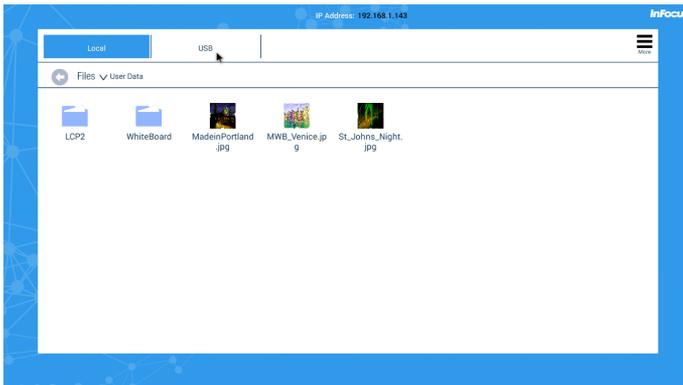
Open document files

1) Navigate to the desired file and either click the file with an attached mouse, or press the **Select/Enter** button on the remote or keyboard. **Note:** Files can be opened from the local folder or a USB thumb drive.

2) Use the menu options to navigate through the file. **Note:** File-level tools vary depending on the file type.

3) To move the tool bar position, use a mouse to click the vertical dots and drag the tool bar to one of four positions. Or use the remote or keyboard to highlight the vertical dots and press the **Select/Enter** button. Then use the up or down arrow buttons to move the tool bar and press the **Select/Enter** button when done.

4) When finished with the document file, click the **Return** button to return to the document folder.

5) To return to the LightCast home page, click the **Home** button.

Document Viewer tools

Note: Document tools vary based on file type.

Button		Description
←	Return	Exits the document view and returns to the folder view.
	Up	When displaying an Excel, Word, or PDF document, selecting up scans up the open document. When displaying a PowerPoint document, selecting up goes to the previous slide in the slideshow.When an image is shown in full screen, selecting Up displays the previous image in the same folder. When the document is zoomed in, selecting Up scans up the open document.
	Down	When displaying an Excel, Word, or PDF document, selecting down scans down the open document. When displaying a PowerPoint document, selecting down goes to the next slide in the slideshow. When an image is shown in full screen, selecting Down displays the next image in the same folder. When the document is zoomed in, selecting Down scans down the open document.
	Left	When the document is zoomed in, selecting Left scans the open document to the left.
	Right	When the document is zoomed in, selecting Right scans the open document to the right.
	Previous	For Excel documents only: Selects the previous tab in the file.
	Next	For Excel documents only: Selects the next tab in the file.

	Rotate	Rotates the document ninety degrees clockwise
90°		
	Zoom In	Magnifies the document view
	Zoom Out	Reduces the document view
	Reset Zoom	Returns the document back to its original document width
	Annotation	When selected, allows the user to annotate the document. See "Annotate the file" on page <OV> for more information. Note: Annotation is only available when a mouse (or touch device) is connected to one of the USB-A connectors.
	Video menu	For video files only: Click to open the video controls.
	Return	For video files only: Click to close the video file and return to the folder view.
	Play	For video files only: Click to play the video file.
	Pause	For video files only: Click to pause the video file.

Annotate the file

Document files can be annotated and saved us using the Annotation submenu.

Note: You must attach a mouse (or touch device) to use the annotation feature. If a mouse (or touch device) is not detected, a warning displays.

Create a drawing

1) Open a file from the document viewer.
2) Click **Annotation**.
3) Click **Tools** and select a drawing tool.
4) Click **Color Wheel** to adjust the color, size, and opacity of the selected drawing tool.
5) Draw on the page using the mouse (or touch device).
6) Use **Eraser**, **Select, Undo, Re-do,** and **Clear** to modify the drawing. See "" on page 14 for more information.

Add text

Note: Text boxes overlay the open document and do not affect the text within the displayed document.

1) Open a file from the document viewer.

2) Click **Annotation**.

3) Click **Tools**.

4) Click **Text**.

5) Click the screen where you want the text box to be. A text box opens.

6) Adjust the font family, size, color, and text attributes, as desired.

7) Using either a keyboard or the on-screen keyboard, type your text.

8) Click **OK** when finished.

Annotation tools

Button		Description
	Current tool	Click to use the current tool.
	Eraser	Click **Eraser,** and then click and drag across the drawing object to erase the portion you touched. Only drawing objects are affected.
	Color Wheel submenu	Click to access the color submenu.
	Color wheel	Click to choose a color using a color ramp. The current selected color displays in the middle of the color wheel.
	Segmented color wheel	Click to choose a color from the segmented color wheel. The current selected color displays in the middle of the color wheel.
	Size	Click and drag the thumbnail button along the slider path to adjust the size of the pen/line width.
	Opacity	Click and drag the thumbnail button along the slider path to adjust the size of the highlighter/shape opacity.
	Tools sub-menu	Click to select an annotation tool. **Note:** Each object has its own color, pen width, and pen transparency setting.
	Pen	Click to use a pen. **Note:** Opacity control is not available for the pen object.
	Highlighter	Click to use a highlighter.
	Rectangle	Click to draw a rectangle.
	Circle	Click to draw a circle.

\	Line	Click to draw a line.	
T	Text	Click to add a text box. Adjust the font size, color, and type attributes as desired. Type your text and click **OK**.	
	Laser	Click to highlight something temporarily. The mark disappears when a new mark is made. Laser marks cannot be saved.	
	Select	Click **Select**. Click and drag the selection box around the drawing objects which you want to move, cut, copy, paste, or delete. Once selected: • Click and drag to move the selection. • Click **Copy** to copy the selection, and then click **Paste** to create a duplicate object set. • Click **Delete** to delete the selection.	
	Undo	Click to delete the last annotation.	
	Redo	Click to display the last deleted annotation.	
	Clear	Click to delete all annotations from the file.	
•••	More submenu	Click to access additional menu features.	
	Save	Click to save the file as a JPG image or PDF file.	
	Paste	Click to paste the clipboard onto the image.	
	Share	Only available when the display is connected to a network. Click to send the annotated image as a JPG image by email.	
	USB	Click to save the annotated picture to a USB device as a JPG image or PDF file.	
	Exit	Click to exit the annotation submenu.	

Save the file

1) From the annotation submenu, click **More**.

2) Click **Save**.

3) Type the file name in the **Name** field.

4) Select the desired **File Type** (JPG or PDF).

5) Select **Current View** to save the displayed page or **Whole View** to save the entire file.

6) Browse to the **Location** you would like to save the file to or accept the default location.

7) Click **Save**.

Share the file

1) From the annotation submenu, click **More**.

2) Click **Share**.

3) Type the recipient email address in the **To:** field.

4) Type information about the file in the **Description** field, if desired.

5) Click **Send** (envelope icon).

Copy a file or folder

1) Navigate to the desired file or folder location.

2) Navigate to **More**.

3) Click **Select/Enter** on the remote or keyboard.
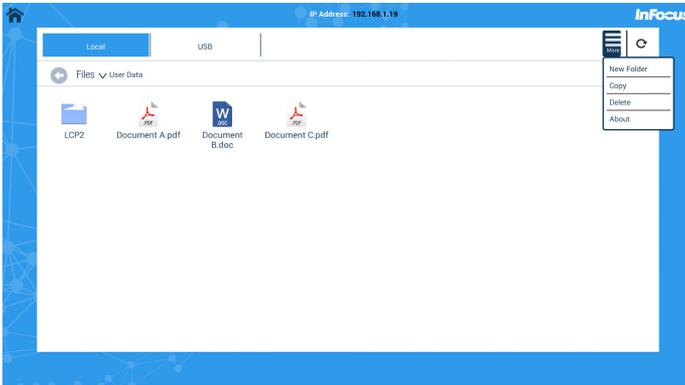
4) Navigate to **Copy**.

5) Click **Select/Enter** on the remote or keyboard.

6) Navigate to the desired file or folder.

7) Click **Select/Enter** on the remote or keyboard. A green checkmark displays.
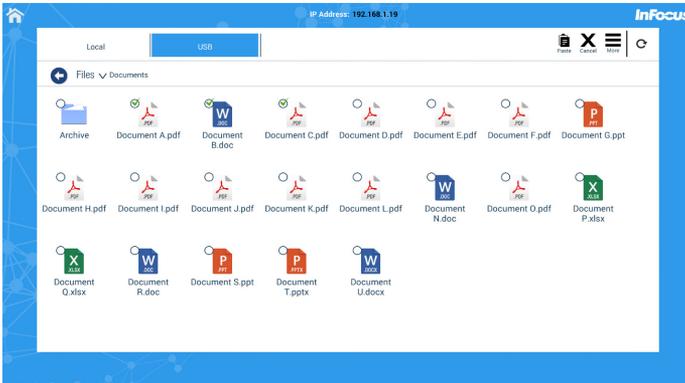
8) Repeat until all desired files or folders are selected.

9) Navigate to the location where you would like to paste the copied files.

10) Navigate to **Paste**.

11) Click **Select/Enter** on the remote or keyboard.

12) Click **Done**.

Create a new folder

1) Browse to the desired folder location.

2) Navigate to **More**.
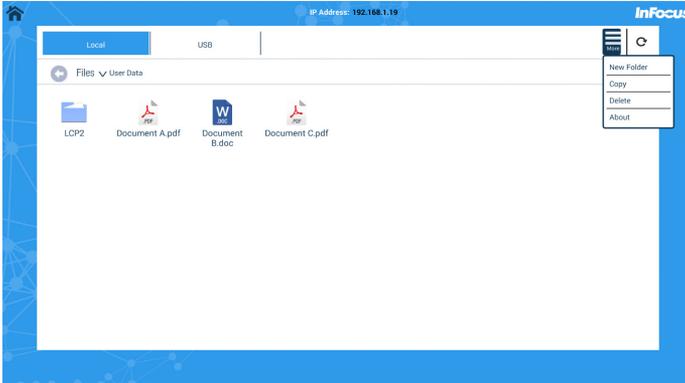
3) Click **Select/Enter** on the remote or keyboard.

4) Click **New Folder**.
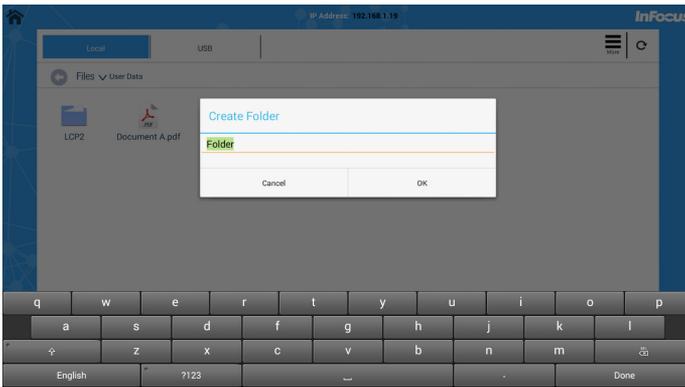
5) Using an attached keyboard or the virtual keyboard, enter the desired folder name. **Note**: If using the virtual keyboard, use the arrows and Select/Enter button on the remote or keypad to select the letters. Select **Done** when the folder name is complete.

6) Click **OK**.

Delete files and folders

1) Navigate to the desired file or folder location.
2) Navigate to **More**.
3) Click **Select/Enter** on the remote or keyboard.
4) Navigate to **Delete**.
5) Click **Select/Enter** on the remote or keyboard.
6) Navigate to the desired file or folder.
7) Click **Select/Enter** on the remote or keyboard. A green checkmark displays.
8) Repeat until all desired files or folders are selected.
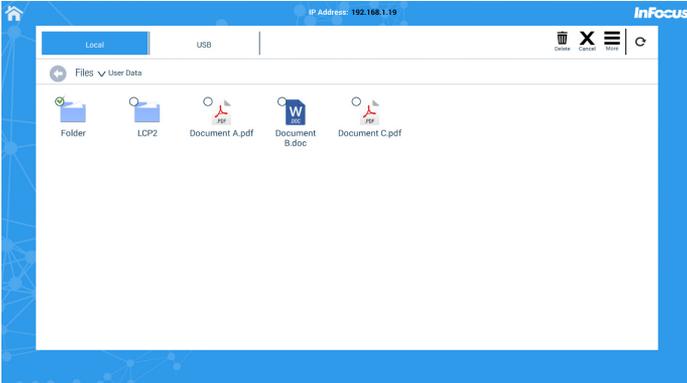
9) Navigate to the **Delete** icon.
10) Click **Select/Enter** on the remote or keyboard.
11) Click **Done**.

Cast (Wireless display)

From the LightCast home page, select **Cast**. From the Cast screen, select which service to use. To protect the display, you can enable an eight digit PIN. See "Network Settings" on page 36 for more information.

LightCast

To send video and audio wirelessly using the Chrome browser on Windows, Chrome OS, and OS X computers, download and install the **LightCast Sender** application from the Chrome web store.
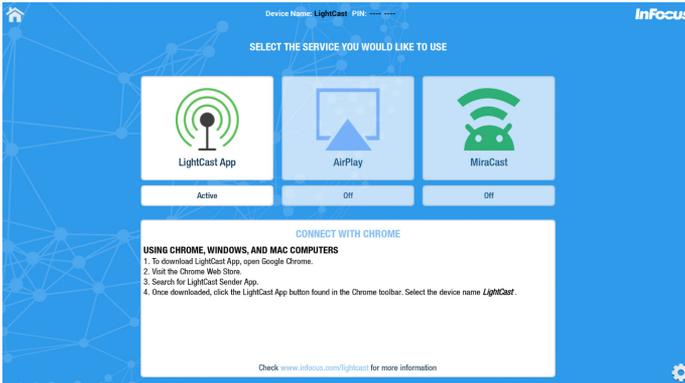
1) With Chrome open, click the **LightCast** icon in the toolbar.

2) Select the Current Tab with the audio in order to pass audio to the projection device. Otherwise no audio will pass through. Select the display from the list.
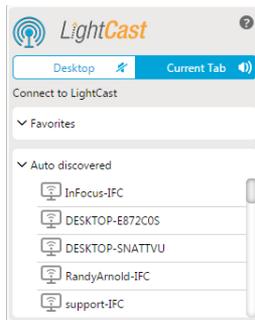
AirPlay

Display using an iPhone, iPad, iPod Touch, or stream audio and video from a Macintosh computer. Your device and LightCast must be connected to the same wireless network.

To display from a Mac computer

1) Click the **AirPlay** icon in the menu bar, then choose the name of the LightCast device under "Connect To AirPlay Display." The icon turns blue when your Mac is using an AirPlay display.

2) From the same AirPlay menu, choose either **Extended Desktop** or one of the mirroring options under "Use AirPlay Display To."

To display from an iOS device

1) Swipe up from the bottom of your screen to open Control Center.

2) Click **AirPlay**.

3) Click the name of the device you want to stream content to. You'll see (TV) or (speaker) next to each device, so you know what type of content you can stream.

Compatibility

• iPhone 4 or later. iPhone 4s or later for AirPlay Mirroring.

• iPad, iPad mini. iPad 2 or later for AirPlay Mirroring.

• iPod touch (4th generation) or later. iPod touch (5th generation) or later for AirPlay Mirroring.

For mirroring your display or extending your desktop, any of the following Mac computers with OS X Mountain Lion v10.8 or later:

• iMac (Mid 2011 or later)

• Mac mini (Mid 2011 or later)

• MacBook (Early 2015 or later)

• MacBook Air (Mid 2011 or later)

• MacBook Pro (Early 2011 or later)

• Mac Pro (Late 2013 or later)

Miracast

Your device and LightCast should be connected to the same wireless network for best performance.

Using an Android tablet or phone

1) Launch the Miracast application (See device instructions).

2) Select the LightCast device.

Using a Windows 8.1 or 10 PC

1) Open the Charms menu on the right side of the desktop.

2) Select **Devices**.

3) Select **Project**.

4) Select **Add a Wireless Device**.

5) Select the LightCast device.

Whiteboard

Use the whiteboard feature to brainstorm ideas, create graphs and workflows, or whatever you desire. The blank slate lets you collaborate, share, and save your ideas.
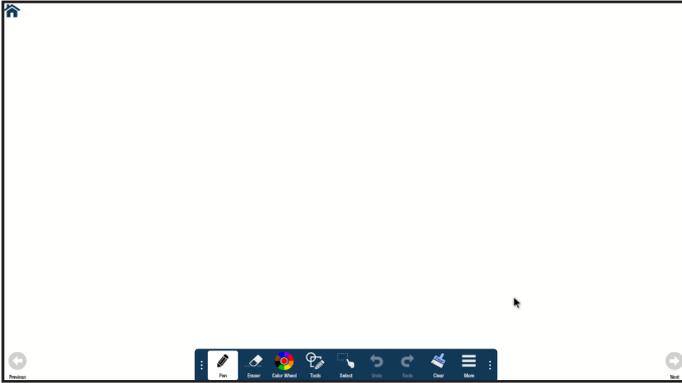
Navigation

1) From the LightCast home page, select **Whiteboard**.

2) Click **Next** to add or go to the next page. **Note**: The whiteboard feature supports up to 3 pages total.

3) Click **Previous** to add or go to the previous page. **Note**: The whiteboard feature supports up to 3 pages total.

4) To return to the LightCast home page, click the **Home** button.

Create a drawing object

1) Click **Tools** and select a drawing tool.

2) Click **Color Wheel** to adjust the color, size, and opacity of the selected drawing tool.

3) Draw on the whiteboard canvas with the mouse (or touch device).

4) Use **Eraser**, **Select**, **Undo**, **Re-do**, and **Clear** to modify the drawing. See "Whiteboard tools" on page 25 for more information.

Add text

NOTE: Text boxes overlay the open document and do not affect the text within the displayed document.

1) Click **Tools**.
2) Click **Text**.
3) Click the screen where you want the text box to be. A text box opens.
4) Adjust the font family, size, color, and text attributes, as desired.
5) Using either a keyboard or the on-screen keyboard, type your text.
6) Click **OK** when finished.

Whiteboard tools

Icon	Tool Name	Description
	Previous	Click to go to the previous page.
	Current tool	Click to use the current tool.
	Eraser	Click **Eraser,** and then click and drag across the drawing object to erase the portion you touched.
	Color Wheel submenu	Click to access the color submenu.
	Color wheel	Click to choose a color using a color ramp. The current selected color displays in the middle of the color wheel.
	Segmented color wheel	Click to choose a color from the segmented color wheel. The current selected color displays in the middle of the color wheel.
	Size	Click and drag the thumbnail button along the slider path to adjust the size of the pen/line width.

	Opacity	Click and drag the thumbnail button along the slider path to adjust the size of the highlighter/shape opacity.
	Tools sub-menu	Click to select a drawing object. **Note**: Each object has its own color, pen width, and pen transparency setting.
	Pen	Click to use a pen. **Note**: Opacity control is not available for the pen object.
	Highlighter	Click to use a highlighter.
	Rectangle	Click to draw a rectangle.
	Circle	Click to draw a circle.
	Line	Click to draw a line.
	Text	Click to add a text box. Adjust the placement, font size, color, and type attributes as desired. Type your text and click **OK**.
	Laser	Click to highlight something temporarily. The red laser mark disappears when a new mark is made. Laser marks cannot be saved.
	Select	Click **Select**. Click and drag the selection box around the drawing objects which you want to move, cut, copy, paste, or delete. Once selected: • Click and drag to move the selection. • Click **Copy** to copy the selection, and then click **Paste** to create a duplicate object set. • Click **Delete** to delete the selection.
	Cut	Click to cut the selected object(s).
	Copy	Click to copy the selected object(s).
	Paste	Click to paste the last copied or cut object(s) onto the whiteboard canvas.

	Delete	Click to delete the selected object(s).
	Cancel	Click to remove the selection box.
	Undo	Click to reverse the last executed command.
	Redo	Click to reverse the last Undo command.
	Clear	Click to clear the drawing objects from the whiteboard canvas.
	More sub-menu	Click to access additional menu features.
	Canvas	Click to view thumbnails of all the edited pages. Click a thumbnail to navigate to that page.
	New	Click to open a new whiteboard canvas.
	Open	Click to open a saved file.
	Save	Click to save the annotated pages as a DigiEasel whiteboard file (.mwbx), JPG image, or PDF file.
	Paste	Click to paste the last copied or cut object(s) on the whiteboard canvas.
	Import	Click to import an image onto the whiteboard canvas. To remove an imported image, click the red **X** in the top right-hand corner of the image.
	Share	Only available when the display is connected to a network. Click to send the annotated image as a JPG image by email.
	USB	Click to save or open files from an external USB thumb drive.
	Next	Click to go to the next page.

Save the whiteboard canvas

1) Click **More**.

2) Click **Save**.

3) Type a file name in the **Name** text box.

4) Select the file type:

File Type Option	Choose this file type if you want to...
DigiEasel	Saves the whiteboard file (.mwbx) for future editing.
JPG	Creates an image file.
PDF	Creates a printable document for others to view.

5) For JPG and PDF file types, click **Current view** to save the visible portion of the canvas or click **Whole view** to save the entire canvas. **Note: Whole view** creates multiple pages and requires extra time to complete.

6) Browse to the desired file location or accept the default location.

7) Click **Save**.

Save the whiteboard canvas to a USB thumb drive

1) Click **More**.

2) Click **USB**.

3) Click **Save**, if not already highlighted.

4) Type a file name in the **Name** text box.

5) Select the file type:

File Type Option	Choose this file type if you want to...
DigiEasel	Saves the whiteboard file (.mwbx) for future editing.
JPG	Creates an image file.
PDF	Creates a printable document for others to view.

6) For JPG and PDF file types, click **Current view** to save the visible portion of the canvas or click **Whole view** to save the entire canvas. **Note: Whole view** creates multiple pages and requires extra time to complete.

7) Click **Save**.
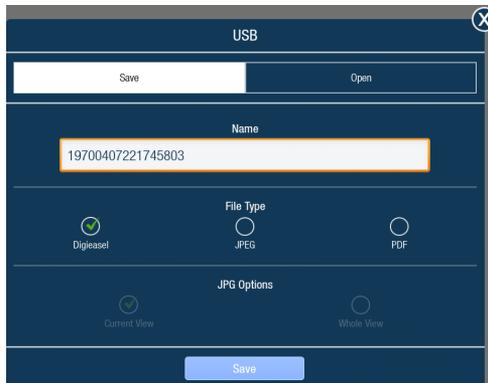
Share the file

1) Click **More**.

2) Click **Share**.

3) Type the recipient email address in the **To:** field.

4) Type information about the file in the **Description** field, if desired.

5) Click **Send** (envelope icon).
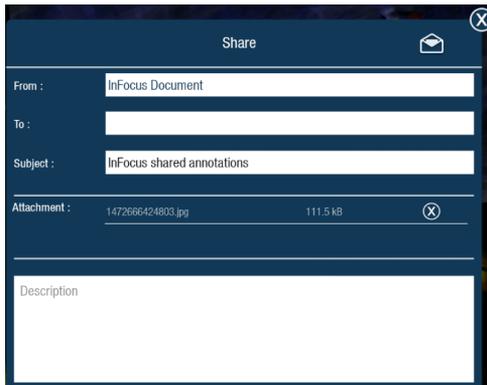
Open a new whiteboard canvas

1) Click **More**.

2) Click **New**.

3) Select **Save** to save the existing canvas or **Don't save** to delete the existing canvas and open a new one.   **Cancel** returns the user to the current canvas.

Open a whiteboard file

1) Click **More**.

2) Click **Open**.

3) If the whiteboard canvas contains objects, you are prompted to save the existing canvas. Select **Save** to save the existing canvas or select **Don't save** to delete the existing canvas and open a new one. (**Cancel** returns the user to the current canvas.)

4) By default, the **Open Files** window displays whiteboard files saved internally on the display. To open a saved file from a USB thumb drive, click the **USB** icon at the top of the Open Files window, and navigate to the desired USB thumb drive.

5) Browse to the desired folder and click the whiteboard file you wish to open.

Open a whiteboard file from a USB thumb drive

1) Click **More**.

2) Click **USB**.

3) Click **Open**.

4) Browse to the desired folder and click the whiteboard file you wish to open.

Browser

Use the Browser to access the internet, save links to favorite web pages, and annotate images of web pages.

1) From the LightCast home page, select **Browser**.
2) To return to the LightCast home page, click the **Home** button.
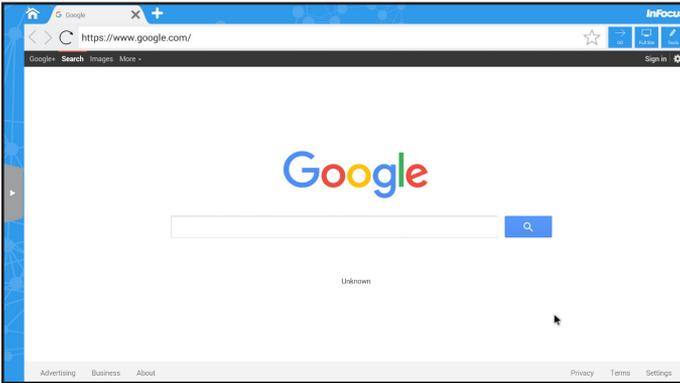
Navigation controls

Button		Description
	Home	Click to return to the LightCast home page.
	Close	Click to close the current browser tab.
	Add	Click to open another browser tab.
	Back	Click to return to the previous web page.
	Forward	Click to go to the next web page.
	Refresh	Click to refresh the browser window.
	Favorite	Click to add the current URL to your Favorites list.

	Go	Click to go to the URL address listed in the browser address bar.
	Full Site/ Touch Site	Select **Full Site** to go to a non-touch site. Select **Touch Site** to return.
	Tools/ Exit Tools	Select **Tools** to annotate and save an image of the browser site (see the Tools submenu section below). Select **Exit Tools** to exit out of annotation mode.
	Favorites bar	Click to expand or minimize the Favorites bar.

Tools submenu

Use the Tools submenu to annotate the browser image.

Button		Description
	Scroll	Click to scroll up or down the web page.
	Current tool	Click to use the current tool.
	Eraser	Click **Eraser,** and then click and drag across the drawing object to erase the portion you touched. The picture is not affected.
	Color Wheel submenu	Click to access the color submenu.
	Color wheel	Click to choose a color using a color ramp. The current selected color displays in the middle of the color wheel.
	Segmented color wheel	Click to choose a color from the segmented color wheel. The current selected color displays in the middle of the color wheel.
	Size	Click and drag the thumbnail button along the slider path to adjust the size of the pen/line width.

	Opacity	Click and drag the thumbnail button along the slider path to adjust the size of the highlighter/shape opacity.
	Tools sub-menu	Click to select an annotation tool. **Note**: Each object has its own color, pen width, and pen transparency setting.
	Pen	Click to use a pen. **Note**: Opacity control is not available for the pen object.
	Highlighter	Click to use a highlighter.
	Rectangle	Click to draw a rectangle.
	Circle	Click to draw a circle.
	Line	Click to draw a line.
	Text	Click to add a text box. Adjust the placement, font size, color, and type attributes as desired. Type your text and click **OK**.
	Laser	Click to highlight something temporarily. The mark disappears when a new mark is made. Laser marks cannot be saved.
	Select	Click **Select**. Click and drag the selection box around the drawing objects which you want to move, cut, copy, paste, or delete. Once selected: - Click and drag to move the selection. - Click **Copy** to copy the selection, and then click **Paste** to create a duplicate object set. - Click **Delete** to delete the selection.
	Undo	Deletes the last annotation.
	Redo	Displays the last deleted annotation.
	Clear	Deletes all annotations from the file.

	More sub-menu	Accesses additional menu features.
	Save	Saves the file as a JPG image or PDF file.
	Paste	Pastes the clipboard onto the image.
	Share	Only available when the display is connected to a network. Sends the annotated image as a JPG image by email.
	USB	Saves the annotated picture to a USB device as a JPG image or PDF file.

Save the file

1) From the Tools submenu, click **More**.
2) Click **Save**.
3) Type the file name in the **Name** field.
4) Select the desired **File Type** (JPG or PDF).
5) Select **Current View** to save the displayed page or **Whole View** to save the entire file.
6) Browse to the **Location** you would like to save the file to or accept the default location.
7) Click **Save**.
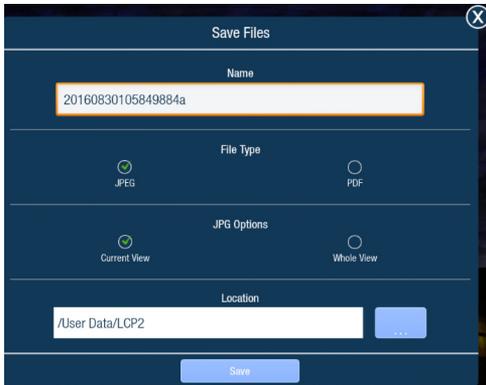
Share the file

1) From the Tools submenu, click **More**.

2) Click **Share**.

3) Type the recipient email address in the **To:** field.

4) Type information about the file in the **Description** field, if desired.

5) Click **Send** (envelope icon).

Settings

To access setting options, click the **Settings** gear icon in the lower right corner of the LightCast home page.

Network Settings
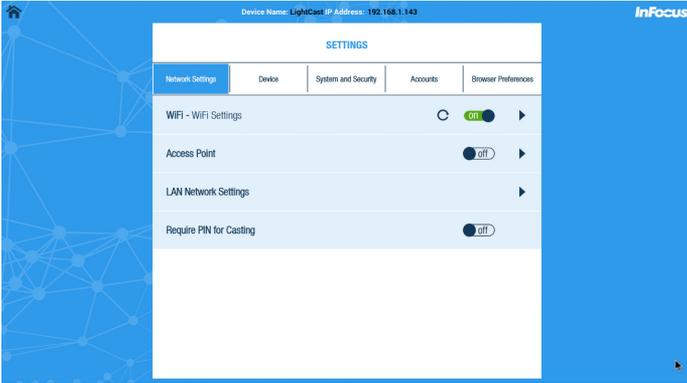
WiFi - WiFi Settings allows you to turn WiFi on and off, and to select and connect to visible SSIDs.

Access Point allows you to configure the display as a WiFi access point. The internet connection is passed down from the wired connection. This is also useful for casting video using LightCast or AirPlay when another network is not available. (See "Access Point Setup" on page 48 for additional information.)

LAN Network Settings allows you to set up a wired network connection between the display (if this feature is available) and the wired network. The wired network connection can be configured as fixed or non-fixed IP or go through a proxy.

Require PIN for Casting allows you to enable or disable a security PIN for casting onto the display. When enabled, the user must enter a random eight digit PIN to connect. The PIN displays in the top center of the screen.

Device

Use this submenu to define the display name, determine how much local storage on the display is available, and when the display should go to sleep.
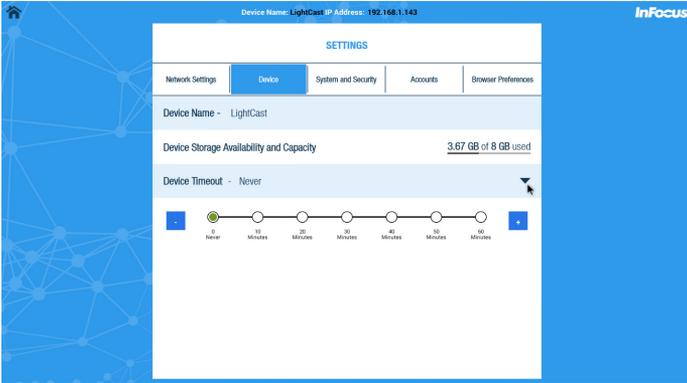
Device Name displays the current device name. Click the name to edit it. This helps differentiate between different displays that have LightCast enabled.

Device Storage Availability and Capacity displays the current flash memory usage.

Device Timeout puts the LightCast display to sleep but does not shut off the display immediately. If no other video sources are active or if Auto Source is disabled, the display shuts off based on the Sleep Timer setting in the display menu (20 minutes by default).

System and Security

Use this submenu to review LightCast information, update the LightCast firmware, reset registration, and reboot the firmware.
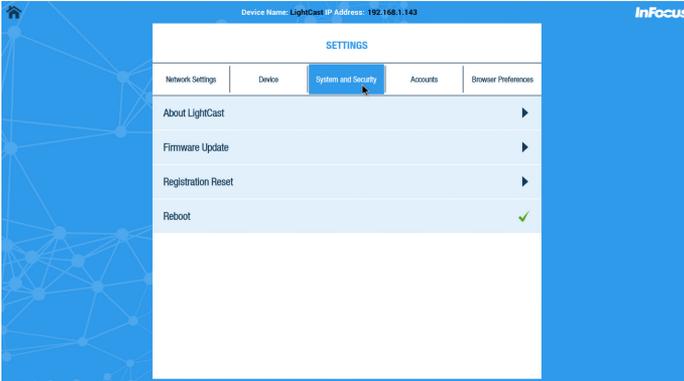
About LightCast displays the LightCast revision, display serial number and the MAC addresses for WiFi and LAN (if present on the display).

Firmware Update allows you to define the update method:

- **Online Update** searches for a newer version of LightCast firmware on the internet automatically. This requires a valid internet connection. Follow the prompts to complete the update.
- **SD Card/USB Update** allows you to update the LightCast firmware from a USB storage device. Visit
  www.infocus.com/support to download the latest version of LightCast firmware. Select the correct .zip file from the list to continue.
- **Factory reset** completely erases all personal data in memory, including registration information, and return all settings to default.

Registration Reset erases the registration information but not personal data in memory.

Reboot restarts LightCast while the display continues to run. LightCast displays when the reboot is complete.

Accounts

Use this submenu to define the registered email address.
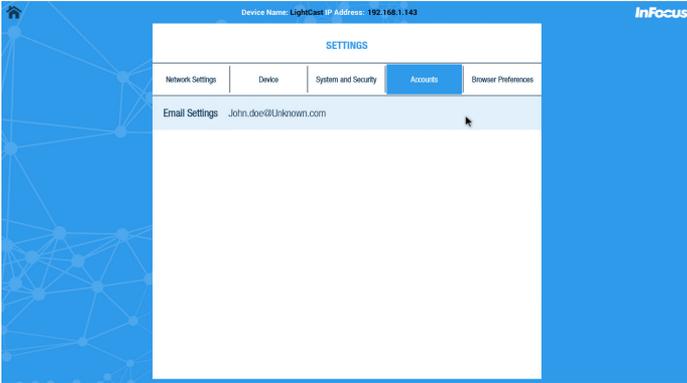
Email settings displays the email address initially defined during the registration process. To change the address associated with this device, click the current email address and enter the new email address.

Browser Preferences

Use this submenu to define the browser default home page, default search engine, and the request desktop site.
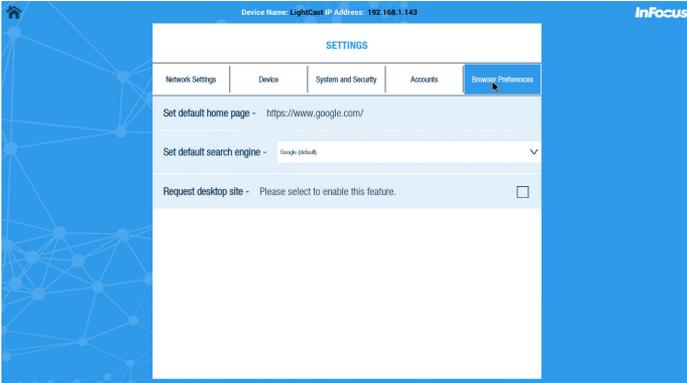
Set default home page allows you to define the home page that displays when the browser is opened. Click the existing home page to change the address.

Set default search engine allows you to define the default search engine when the browser is opened. Click the down arrow to choose from the options.

Request desktop site allows you to change the web page type from a Touch Site (default) to a Full Site (non-touch page). Enabling the feature displays the page as a Full Site.

Troubleshooting

Under no circumstances should you try to repair the InFocus hub by yourself, as this will invalidate the warranty. Do not open the InFocus hub as there is a risk of electrical shock. If a fault occurs, first check with points listed below before taking the InFocus hub for repair. If you are unable to remedy a problem by following these hints, consult your dealer for help or contact InFocus Support at www.infocus.com/support.

Problem	Solution
No power	• Check if the power adapter is properly connected to a power outlet and to the InFocus hub. • Click the power button on the remote control to turn power on.
No image	• Reconnect the HDMI cable or AV cable. • Verify that the InFocus touch display is turned on.
No sound or distorted sound	• Adjust the volume. • Verify that the HDMI cable or audio cable is properly connected to the InFocus hub and to the InFocus touch display. • Verify that the speakers are connected correctly.
No audio or digital output	• Check the digital connections. • Verify that your amplifier is set correctly.
No sound during movie playback	• Adjust the volume. • The audio codec many not be supprted by the InFocus hub. Change the audio codec.
The box does not respond to the remote control	• Aim the remote control directly at the sensor on the front of the InFocus hub. • Reduce the distance to the InFocus hub. • Replace the batteries in the remote control.
Player does not respond to some operating commands during playback	• Operations may not be permitted. Refer to the user manual. • The system may have halted. Re-insert the power adapter to restart.
The contents of the USB flash drive cannot be read	• Turn off the InFocus hub. Wait 30 seconds, and then turn the InFocus hub back on. • The USB flash drive format may not be compatible with the InFocus hub.
Slow operation of the USB flash drive	• Reduce the file size or resolution of the images on the USB flash drive.
The InFocus touch display screen is blank and the InFocus hub LED is blinking.	• Turn off the InFocus hub. Wait 30 seconds, and then turn the InFocus hub back on. • Verify that the HDMI cable or audio cable is properly connected to the InFocus hub and to the InFocus touch display. • Change the resolution output of the InFocus hub to 720p.

For additional support, please contact:

InFocus Corporation

Technical Support

6am-5pm PST

877-388-8385

www.infocus.com/support

Declaration of Conformity

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by InFocus Corporation may void authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

ICC

CAN ICES-3 (A)/NMB-3(A). This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

EU/EEC

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. Warnung: Dieses ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funk-Störungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Maßnahmen zu ergreifen und dafür aufzukommen.

This product operates at fundamental frequencies of 2.4 and 5 GHz. Each frequency outputs a maximum of 100 mW of power. Dieses Produkt arbeitet mit Basis Frequenzen von 2.4 und 5GHz. Jeder dieser Frequenzbereiche sendet mit einer maximal Leistung von 100 mW.

Trademarks

HDMI logo and "High Definition Multimedia Interface" are registered trademarks of HDMI Licensing LLC. InFocus, In Focus, INFOCUS (stylized), MondoCenter, Mondopad, BigTouch, and JTouch are either registered trademarks or trademarks of InFocus Corporation in the United States and other countries. All other trademarks are the property of their respective owners. Any other trademarks, service marks, personal names or product names are assumed to be the property of their respective owners and are used only for reference. There is no implied sponsorship, affiliation, certification, approval or endorsement if we use one of these terms.

Limited Warranty

InFocus Limited Warranty For InFocus Branded Hardware Products Only

LIMITED WARRANTY. InFocus's warranty obligations for the hardware products are limited to the terms set forth herein. InFocus warrants the InFocus-branded hardware products against defects in materials and workmanship under normal use for a period outlined in the Limited Warranty Periods section below from the date of retail purchase by the original end-user purchaser ("Warranty Period"). The Warranty Period starts on the date of purchase. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase and proof that the product was purchased new as a condition of receiving warranty service. If a hardware defect arises and a valid claim is received within the Warranty Period, at its option and to the extent permitted by law, InFocus will either (1) repair the hardware defect at no charge, using new parts or refurbished parts that are equivalent to new in performance and reliability, (2) exchange the product with a product that is new or refurbished that is equivalent to new in performance and reliability and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. InFocus may request that you replace defective parts with customer-installable new or refurbished parts that InFocus provides in fulfillment of its warranty obligation ("Customer Self Repair"). A replacement product or part, including a Customer Self Repair part that has been installed in accordance with instructions provided by InFocus, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes InFocus's property. Parts provided by InFocus in fulfillment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given, the product for which the refund is provided must be returned to InFocus and becomes InFocus's property. This is your exclusive remedy for defective products.

Limited Warranty Periods vary depending on your product model and the country of purchase. To review the warranty period associated with your product model, please refer to the product specifications information on www.infocus.com. By inputting your product model in the Quick Search box on the website, you will find warranty terms in the Specifications matrix.

EXCLUSIONS AND LIMITATIONS. This Limited Warranty applies only to the hardware products manufactured by or for InFocus, and sold by InFocus, its worldwide subsidiaries, authorized resellers or country distributors, that can be identified by the "InFocus" trademark, trade name, or logo affixed to it, and to required firmware. The Limited Warranty does not apply to any non-InFocus hardware products or peripherals external to the InFocus-branded hardware products (including but not limited to external storage subsystems, displays, printers, speakers or other peripherals), or to any software applications or programs, even if packaged or sold with the InFocus hardware. Manufacturers, suppliers, or publishers of products, software or peripherals, other than InFocus, may provide their own warranties to the end user purchaser, but InFocus, in so far as permitted by law, provides their products "AS IS" without the InFocus Limited Warranty. Software distributed by InFocus with or without the InFocus brand name (including, but not limited to system software) is not covered under this Limited Warranty. Refer to the licensing agreement accompanying the software for details of your rights with respect to its use.

InFocus does not warrant that the operation of the products will be uninterrupted or error-free. InFocus is not responsible for damage arising from failure to follow instructions relating to the products' use.

INFOCUS IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF ANY PROGRAMS, DATA, OR REMOVABLE STORAGE MEDIA. INFOCUS IS NOT RESPONSIBLE FOR THE RESTORATION OR REINSTALLATION OF ANY PROGRAMS OR DATA OTHER THAN SOFTWARE INSTALLED BY INFOCUS WHEN THE PRODUCT IS MANUFACTURED.

To enable InFocus to provide the best possible support and service during the Limited Warranty Period, you will be required to:

*   Maintain a proper and adequate environment, and use the InFocus hardware products in accordance with the instructions furnished.
*   Verify configurations, load most recent firmware, install software patches, run InFocus diagnostics and utilities, and implement temporary procedures or workarounds provided by InFocus while InFocus works on permanent solutions.
*   Allow InFocus to keep resident on your systems or sites certain system and network diagnosis and maintenance tools to facilitate the performance of warranty support (collectively referred to as "Proprietary Service Tools"); Proprietary Service Tools are and remain the sole and exclusive property of InFocus.

Additional Limitations:

*   Products external to the system processor (CPU) box, such as external storage subsystems, printers and other peripherals, are covered by the applicable warranty for those products or options.
*   An effective repair does not necessarily require the replacement of a defective part. For example, cleaning the heads of a floppy drive or updating revision levels of ROM BIOS on a PCA board are activities that in many instances deliver an effective repair.
*   BIOS/Firmware upgrades are not covered under the Limited Warranty. Firmware that is an integral part of the option hardware board is not automatically upgraded when new versions of firmware are released.
*   It is the responsibility of the customer to ensure that their software is compatible with the latest BIOS/firmware revision.

This Limited Warranty does not apply: (a) to consumable or expendable parts, such as batteries, or protective coatings designed to diminish over time unless failure has occurred due to a defect in materials or workmanship; (b) to cartons, carrying cases, shipping cases, external cabinets, accessories used in connection with the product; (c) to cosmetic damage, including but not limited to scratches, dents, and broken plastic on ports; (d) to damage caused by use with non-InFocus products; (e) to damage caused by accident, abuse, misuse, improper ventilation, smoke exposure, contamination, improper or inadequate maintenance, cleaning or calibration, liquid contact, unusual physical or electrical stress and/or power surges, virus infection, fire, earthquake, disaster, lightning or other external causes; (f) to damage caused by operating the product outside the permitted or intended uses or usage parameters described by

InFocus (including burned monitor screens and incorrect input voltage); (g) to damage caused by service (including upgrades and expansions) performed by anyone other than a representative of InFocus or an InFocus Authorized Service Provider ("ASP") or your own installation of customer-installable parts as instructed by InFocus; (h) to a product or part that has been modified to alter functionality or capability without the written permission of InFocus (including use of an unauthorized mount); (i) to defects caused by normal wear and tear or otherwise due to the normal aging of the product; (j) to failure to follow maintenance procedures as outlined in the product user documentation including where a schedule is specified for regular cleaning of certain parts (based on usage and environment); (k) to loss or damage in transit; or (l) if the product is not used under normal operating conditions which are defined as use not in excess of 16 hours continuously per day with a minimum 8 hour period of continuous rest in the powered off state; or (m) if any InFocus serial number has been removed or defaced. In addition, LCD burn-in as a result of excessive display of static images on the product is not covered under the terms of this Limited Warranty.

Important: Do not open the hardware products unless otherwise directed by InFocus for the purposes of a Customer Self Repair (CSR). Opening the hardware products may cause damage that is not covered by this Limited Warranty. Only InFocus or an ASP should perform service on the hardware products.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, INFOCUS SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, IN-CLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRAN-TIES AGAINST HIDDEN OR LATENT DEFECTS. IF INFOCUS CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES THEN TO THE EXTENT PERMITTED BY LAW, ALL SUCH WARRANTIES SHALL BE LIMITED IN DURATION TO THE DURATION OF THE EXPRESS WARRANTY AND TO THE REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY INFOCUS IN ITS SOLE DISCRETION. No InFocus reseller, agent, or employee is authorized to make any modification, extension, or addition to this warranty. If any term is held to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, INFOCUS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAV-INGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION; LOSS OF, DAMAGE TO, COMPROMISE OR CORRUPTION OF DATA; OR ANY INDIRECT OR CONSEQUENTIAL LOSS OR DAMAGE HOWSOEVER CAUSED INCLUDING THE REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, PROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH THE INFOCUS PRODUCT AND ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. THE FOREGOING LIMITATION SHALL NOT APPLY TO DEATH OR PERSONAL INJURY CLAIMS, OR ANY STATUTORY LIABILITY FOR INTENTIONAL AND GROSS NEGLIGENT ACTS AND/OR OMISSIONS. INFOCUS DISCLAIMS ANY REPRESEN-TATION THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY OR MAKE A PRODUCT EXCHANGE WITHOUT RISK TO OR LOSS OF PROGRAMS OR DATA.

Limitation on Bringing Action: No action, regardless of form, arising out of the agreement to purchase the Product may be brought by purchaser more than one year after the cause of action has accrued. Governing Law: Any action, regardless of form, arising out of the agreement to purchase the Product is governed by the laws of the State of Oregon, U.S.A. Mandatory Arbitration – Any action, regard-less of form, arising out of the agreement to purchase the Product is subject to mandatory arbitration.

ADDITIONAL RIGHTS. FOR CUSTOMERS, WHO ARE COVERED BY CONSUMER PROTECTION LAWS OR REGULATIONS IN THEIR COUNTRY OF PURCHASE OR, IF DIFFERENT, THEIR COUNTRY OF RESIDENCE, THE BENEFITS CONFERRED BY THIS WARRANTY ARE IN ADDITION TO ALL RIGHTS AND REMEDIES PROVIDED BY SUCH CONSUMER PROTECTION LAWS AND REGULATIONS. THIS WARRANTY DOES NOT EXCLUDE, LIMIT OR SUSPEND ANY RIGHTS OF CONSUMERS ARISING OUT OF NONCONFORMITY WITH A SALES CONTRACT. SOME COUNTRIES, STATES AND PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY OR CONDITION MAY LAST, SO THE LIMITATIONS OR EXCLUSIONS DESCRIBED BELOW MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY BY COUNTRY, STATE OR PROVINCE. INFOCUS, THE WARRANTOR UNDER THIS LIMITED WARRANTY, IS IDENTIFIED AT THE END OF THIS DOCUMENT.

EXTENDED WARRANTIES. InFocus extended product warranties are available for an additional charge. For further information on InFocus extended product warranties, please contact InFocus or your product reseller.

OBTAINING WARRANTY SERVICE. Please access and review the online help resources located at www.infocus.com/support before seeking warranty service. If the product is still not functioning properly after making use of these resources, please contact InFocus Technical Support or, if applicable, an ASP using the information provided below. When contacting InFocus via telephone, other charges may apply depending on your location. When calling, InFocus Technical Support or an ASP will help determine whether your product requires service and, if it does, will inform you how InFocus will provide it. You must assist in diagnosing issues with your product and follow InFocus's warranty processes. InFocus may restrict service to the country where InFocus or its Authorized Distributors originally sold the hardware product. InFocus will provide warranty service either (i) at an ASP location, where service is performed at the location, or the ASP may send the product to an InFocus repair service location for service, (ii) by sending you prepaid way bills (and if you no longer have the original packaging, InFocus may send you packaging material at your cost) to enable you to ship the product to an InFocus repair service location, or (iii) by sending you customer-installable new or refurbished replacement parts to enable you to conduct Customer Self Repair, or (iv) by exchanging the product for a new or refurbished replacement.

Customer Self Repair

InFocus products are designed with many Customer Self Repair (CSR) parts to minimize repair time and allow for greater flexibility in performing defective parts replacement. If during the diagnosis period, InFocus identifies that the repair can be accomplished by the use of a CSR part, InFocus will ship that part directly to you for replacement. There are two categories of CSR parts:

- Parts for which customer self repair is mandatory. If you request InFocus to replace these parts, you will be charged for the travel and labor costs of this service.
- Parts for which customer self repair is optional. These parts are also designed for customer self repair. If, however, you require that InFocus replace them for you, this may be done at no additional charge under the type of warranty service designated for your product.

Based on availability and where geography permits, InFocus will attempt to ship CSR parts out the next business day. Customer receipt will vary based upon the actual part, customer location and shipping method. Next Day service may be offered at an additional charge where geography permits. If assistance is required, you can call the InFocus Technical Support Center and a technician will help you over the phone. InFocus specifies in the materials shipped with a replacement CSR part whether a defective part must be returned to InFocus. In cases where it is required to return the defective part to InFocus, you must ship the defective part back to InFocus within a defined period of time, normally five (5) business days, and clearly display the Return Material Authorization (RMA#) on the outside of the shipping carton or a similar package affording an equal degree of protection. The defective part must be returned with the associated documentation in the provided shipping material. Failure to return the defective part may result in InFocus charging you for the replacement. With a Customer Self Repair, InFocus will pay all shipping and part return costs and determine the courier/carrier to be used.

Upon receipt of the replacement product or part, the original product or part becomes the property of InFocus and you agree to follow instructions, including arranging the return of original product or part to InFocus in a timely manner. When providing a product exchange or Customer Self Repair (CSR) part requiring the return of the original product or part, InFocus may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. When returning product to InFocus, a Return Material Authorization Number (RMA #) is required and must be clearly displayed on the outside of the shipping carton or a similar package affording an equal degree of protection. Service options, parts availability and response times may vary according to the country in which service is requested. Service options are subject to change at any time. You may be responsible for shipping and handling charges if the product cannot be serviced in the country in which service is requested. If you seek service in a country that is not the country of original purchase, you will comply with all applicable import and export laws and regulations and be responsible for all custom duties, V.A.T. and other associated taxes and charges. Where international service is available, InFocus may repair or exchange defective products and parts with comparable products and parts that comply with local standards. In accordance with applicable law, InFocus may require that you furnish proof of purchase details and/or comply with registration requirements before receiving warranty service. Resources with more details on this and other matters on obtaining warranty service are described below.

PRIVACY. InFocus will maintain and use customer information in accordance with the InFocus Privacy Policy available at www. Infocus.com/privacy and InFocus's applicable legal obligations.

BACKUP. If your product is capable of storing software programs, data and other information, you should protect its contents against possible operational failures. Before you deliver your product for warranty service it is your responsibility to keep a separate backup copy of the contents, remove all personal information and data that you want to protect and disable any security passwords. THE CONTENTS OF YOUR PRODUCT WILL BE DELETED AND THE STORAGE MEDIA REFORMATTED IN THE COURSE OF WARRANTY SERVICE. Your product or a replacement product will be returned to you as your product was configured when originally purchased, subject to applicable updates. InFocus may install system software updates as part of warranty service that will prevent the hardware from reverting to an earlier version of the system software. Third party applications installed on the hardware may not be compatible or work with the hardware as a result of the system software update. You will be responsible for reinstalling all other software programs, data and passwords. Recovery and reinstallation of software programs and user data are not covered under this Limited Warranty.

RESOURCES. Support and service information including Authorized Distributor and Authorized Service Provider locations is available at: www.infocus.com/support.

InFocus Corporation, 13190 SW 68th Parkway, Suite 200, Portland, OR 97223-8368 USA

Specifications

|	
Chipset	Quad core Cortex A9R4 2GHz
GPU	Octo-Core Mali-450
Memory	2GB-DDR3, 8GB-Flash
Inputs	SD/SDHC/MMC card slot, USB-A (2), RJ45
Outputs	HDMI 1.4 out, 3.5mm A/V out
Dimensions (W x L x D)	5.06" x 5.06" x 1.18" / 128.5mm x 128.5mm x 30mm
Weight	.56 lbs / 256g
Electrical range for video	1.0V +/-0.1V
Electrical range for audio	2.0V +/-0.2V
Power Supply	5V DC; 2A
Temperature and humidity limitations	Operation: 0-40˚ C; 20-80%. Storage: -20-50˚ C; 10-90%.

This specification may be modified without notice.

Appendix

Access Point Setup

1) From the home page, click the **Settings** icon.

2) Navigate to the **Network Settings** tab.

3) Click the **Access Point On/Off** button, so that **On** is selected. This disconnects the current WiFi connection.

4) Click the right arrow to open the **Access Point** submenu.
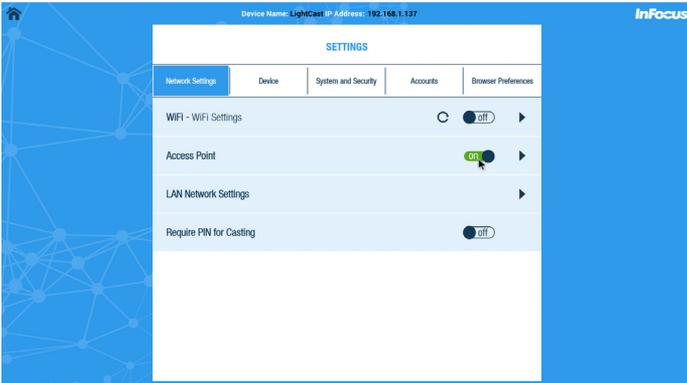
5) By default, the SSID is LightCastAP. If other LightCast equipment is being used nearby, change the SSID to a unique name using a mouse and keyboard, or the remote and on screen keyboard.
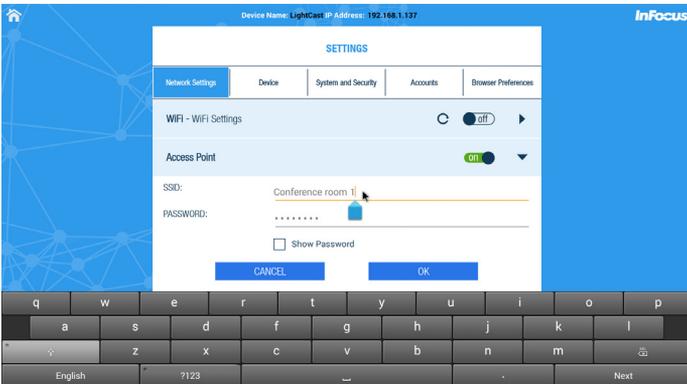
6) Enter a password (min. 8 characters) and click **OK**.

Port Requirements for AirPlay, Miracast, and LightCast Sender App

AirPlay

Port Number	Type	Protocol	RFC	Used by
80	TCP	HTTP	2616	AirPlay
443	TCP	HTTPS		AirPlay
554	UDP/TCP	RTSP	2326	AirPlay
3689	TCP	DAAP		iTunes Music Sharing/AirPlay
5297	TCP			Bonjour
5289	UDP/TCP			Bonjour
5353	UDP	MDNS		Bonjour/AirPlay
49159	UDP	MDNS (Windows)		Bonjour/AirPlay
49163	UDP	MDNS (Windows)		Bonjour/AirPlay

Miracast

Miracast uses the network differently than AirPlay and the LightCast Sender App. Miracast connects directly using WiFi protocol between your sending device and the LightCast (receiving) device. Your sending device (PC or mobile device) must be Miracast compatible in order for communication to occur. No router or internet connection is needed.

LightCast Sender App

The three server addresses listed below must be entered into the firewall allowing them through on UDP port 443 outbound. UDP ports 5000-65534 are required for internal network communication only and should not be opened outside of the firewall, or blocked internally.

Application	Port
M360.api.splashtop.com	443
Turn.relay.splashtop.com	443
Wbs.relay.splashtop.com	443