

Wireless Display Adapter for Mobile Devices



Actual product may vary from photos

User Manual

SKU#: WIFI2HDMC/WIFI2HDMCGE

For the latest information and specifications visit www.startech.com/WIFI2HDMC www.startech.com/WIFI2HDMCGE



Compliance Statements

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

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Safety Statements

Safety Measures

- Wiring terminations should not be made with the product and/or electric lines under power.
- Product installation and/or mounting should be completed by a certified professional as per the local safety and building code guidelines.
- Cables (including power and charging cables) should be placed and routed to avoid creating electric, tripping or safety hazards.

Mesures de sécurité

- Les terminaisons de câblâge ne doivent pas être effectuées lorsque le produit et/ou les câbles électriques sont sous tension.
- L'installation et/ou le montage du produit doit être réalisé par un professionnel certifié et dans le respect des normes locales et du code de construction local.
- Les câbles (y compris les câbles d'alimentation et de chargement) doivent être placés et acheminés de façon à éviter tout risque électrique, de chute ou de sécurité

安全対策

- 電源が入っている状態の製品または電線の終端処理を行わないでくださ
- 製品の設置やマウントは、使用地域の安全ガイドラインおよび建築基準に 従い、有資格の専門業者が行うようにしてください。
- ゲーブル(電源ゲーブルと充電ケーブルを含む)は、適切な配置と引き回しを行い、電気障害やつまづきの危険性など、安全上のリスクを回避するようにしてください。

Misure di sicurezza

- I terminiali dei fili elettrici non devono essere realizzate con il prodotto e/o le linee elettriche sotto tensione.
- L'installazione e/o il montaggio dei prodotti devono essere eseguiti da un tecnico professionale certificato che conosca le linee guida locali sulle norme edilizie e sulla sicurezza.
- I cavi (inclusi i cavi di alimentazione e di ricarica) devono essere posizionati e stesi in modo da evitare pericoli di inciampo, rischi di scosse elettriche o pericoli per la sicurezza.



Säkerhetsåtgärder

- Montering av kabelavslutningar får inte göras när produkten och/eller elledningarna är strömförda.
- Installation och/eller montering får endast göras av behöriga yrkespersoner och enligt gällande lokala förordningar för säkerhet och byggnormer.
- Kablar (inklusive elkablar och laddningskablar) ska dras och placeras på så sätt att risk för snubblingsolyckor och andra olyckor kan undvikas.

Warning Statements

- Make sure to assemble this product according to the instructions. Failure to do so might result in personal injury or property damage.
- Never use this product if parts are missing or damaged.



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Product Diagram

Side View



1	USB Media Input
2	Mode Selection Button



Rear View



3	Analog Audio/Video Out Port
4	HDMI Out Port
5	RJ45 Port
6	Power Button
7	Power Adapter Port



Product Information

Packaging Contents

- Wireless Display Adapter x 1
- Universal Power Adapter (NA/UK/EU) x 3
- USB Cable to Power Adapter Port (optional for USB Power source) x 1
- 4 position A/V cable x 1
- User Manual x 1

System Requirements

- HDMI-enabled display device w/ cabling (i.e. television, projector)
- Miracast, or 802.11n/g Wireless-enabled video source device (i.e. Smartphone, tablet, Computer system)
- USB Flash Drive (For updating the device's firmware)



Installation

Installing the Display Adapter

- Connect an HDMI Cable (sold separately) to the HDMI Out Port on the Display Adapter and the other end of the HDMI Cable to the HDMI In port on a Display Device.
- Connect the Universal Power Adapter to the Power Adapter Port on the Display Adapter and the other end to an AC Electrical Outlet.
 - or -
- Connect the USB Power Cable (included) to the Power Adapter Port on the Display Adapter and the other end to an available USB Power Source.
- 4. Press the Power Button on the Display Adapter.
- The Launch screen will appear on the Display Device once the installation is complete.

Notes: The **Launch** screen may take several seconds to load. The appearance of the **Launch** screen may vary depending on the firmware version you are using.



Upgrading Firmware

For optimal performance, make sure that the **Display Adapter's** firmware is up to dated.

Warnings: Do not unplug the USB flash drive or power down the device until the new primary launch screen is displayed. Firmware upgrades are irreversible.

Identifying Firmware Version

 The firmware version number will be in the bottom righthand corner of the *Launch* screen.

Updating from Version 1.6.5

- 1. Download the firmware update files from StarTech.com and unzip the compressed file.
- Copy install.img and install_sp.img from the downloaded folder to the root directory (the parent/top directory) of the USB flash drive.
- 3. Ensure the **Display Adapter** is powered off.
- Plug the USB flash drive into the USB Media Input on the Display Adapter.
- Hold down the Mode Select Button and turn on the Display Adapter by pressing the Power Button. Continue to hold down the Mode Select Button while the device powers on.



- Release the Mode Select Button after the Please wait for USB update appears on your Display Device.
- The firmware on your **Display Adapter** will now update. Once the update has completed the **Launch** screen will appear.

Update from Version 2.0.0

- Download the firmware update files from StarTech.com and Unzip the compressed file.
- Copy install_sp.img from the downloaded folder to the root directory (the parent/top directory) of the USB flash drive.
- Once the file has been moved to your USB flash drive, rename install_sp.img file to install.img.
- 4. Ensure the **Display Adapter** is powered off.
- Plug the USB flash drive into the USB Media Input on the Display Adapter.
- Hold down the Mode Select Button and turn on the Display Adapter by pressing the Power Button. Continue to hold down the Mode Select Button while the device powers on.
- Release the Mode Select Button after the Please wait for USB update appears on your Display Device.
- The firmware on your **Display Adapter** will now update. Once the update has completed the Launch screen will appear.



Connecting to a Smartphone or Tablet

The **Display Adapter** can connect (through a wireless connection) to a Miracast enabled device (smart phone or tablet).

 Set the Display Adapter to Miracast mode. Press the Mode Select Button until the Miracast Launch screen is displayed.



Miracast Launch screen

The Miracast Launch screen will display the Adapter name and Adapter ID.

Note: The **Display Adapter** name cannot be edited/changed.

Connect to the **Display Adapter** using your Miracastenabled smartphone or tablet.

Note: Exact steps regarding Miracast setup will vary depending on your device. Please review the documentation included with your smartphone or tablet.



Connecting to a Computer

The **Display Adapter** can connect (through a wireless connection) to a **Computer** with an Operating System (OS) Window 8.1 or higher.

Note: Please ensure the drivers for your graphics adapter and wireless adapter are up to date.

- 1. Launch the Windows 8 Charms Bar and select Devices.
- 2. Select Project, then Add a wireless display.
- 3. Select the **Display Adapter** from the list of devices.
- If you are prompted for a PIN code, enter the PIN code that pops up on the *Display Adapter* screen and click **Next**.
- If you are prompted for a PIN code, enter the PIN code that pops up on the *Display Adapter* screen and click **Next**.



AllShareCast/Screen Mirror Device (Samsung)

- 1. Open the Settings menu.
- 2. Select More Settings.



Settings screen



Scroll through the list and select AllShare Cast or Screen Mirror (depending on your version of Samsung device).



All Share Cast

 Turn AllShare Cast ON and select the device name from the list. By default Display Adapter will be listed as the device name. Tap the device to connect.





AllShare Cast screen

The smartphone or tablet screen will now be shared on your Display Device.



Android Nexus Device 4.2 or Higher

1. Open the **Settings** menu.



Settings menu

- 2. Select Display.
- Select Wireless display or Cast screen (depending on your version of Android).
- Turn Wireless display ON and select the device name from the list. By default **Display Adapter** will be listed as the device name. Tap the device to connect.





Cast screen

The smartphone or tablet screen will now be shared on your Display Device.

Configuration

Accessing the Remote Control Interface

- Once the **Display Adapter** is connected to your TV and powered on, the *Miracast Launch* screen will show on the display.
- Press the Mode Select button beside the USB port. A secondary Launch screen will load.
 - **Note:** You will want to be in the same room as the display connected to the **Display Adapter**.
- Connect your Smartphone, Tablet, or Laptop to the SSID of the device. By default the SSID for the device is WIFI2HDMC xxx with no security key.



 Once you have connected to the device, open a web browser and enter the IP address (http://192.168.59.254) in the address bar. The *Airfun Launch* screen will appear.

Note: The IP address is also listed on the display The default is http://192.168.59.254.



Airfun Launch screen



Select the Remote Control button to access the Remote Control screen.



Remote Control screen

Configuring a Wired Connection

 From the *Remote Control* screen, click on the **Setup** Button, the *Setup* screen will appear.



Setup screen

- 2. From the **Setup** screen, click on the **Network** tab.
- Click on the Wired Connection link.





Wired Connection Link

- 4. A pop-up screen will appear with the following options:
 - Obtain an IP address automatically: An IP address from DHCP server will be assigned automatically.
 - Set IP address manually: Allows you to set an IP address manually
 - Subnet Mask: Enter the Subnet Mask e.g. 255.255.255.0
 - · Gateway Address: Enter the Routers address
 - DNS Server: Enter the IP address of the DNS (Domain Name Service) server.

Changing the Device Name

The **Device Name** will be used as the SSID name while board casting in ad hoc mode and as the device name within the ScreenShare software.

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.





Setup screen

- 2. From the **Setup** screen, click on the **Network** tab.
- 3. Click on the **Device Name** link.



Device Name Link

4. Enter the **Device Name** of the presentation gateway. **Note:** The **Device Name** default is WIFI2HDMC.



Configuring a WiFi Connection

1. From the **Remote Control** screen, click on the **Setup** Button, the **Setup** screen will appear.



Setup screen

- 2. From the Setup screen, click on the Network tab.
- 3. Click on the Wifi Connection link.



Wifi Connection link



- A list of available wireless access points (AP) will be displayed.
- 5. Select the desired wireless AP.

Note: The selected wireless AP may require a password.

Configuring Virtual AP

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Network** tab.



3. Click on the Virtual AP Setup link.



Virtual AP Setup link

- 4. A pop-up screen will appear with the following options:
 - Radio Band: Set the Radio band to 2.4GHz or 5GHz.

Note: Please confirm that your PC/Notebook supports 5GHz operation before you set the radio band to 5GHz.

- Security:
 - Open: Disables wireless encryption.
 - WPA: Enable WPA encryption. Wireless clients must support WPA encryption and know the encryption passphrase you set here.
- Region: Choose your region.
- Click the Save button to save the changes to the virtual AP configuration.



Creating a Bridge to a Wireless Connection

 From the *Remote Control* screen, click on the **Setup** Button, the *Setup* screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Network** tab.



Network tab

3. Click on the Wifi Connection link.



- A list of available wireless access points (AP) will be displayed.
- 5. Select the desired wireless AP.

Note: The selected wireless AP may require a password.

Creating a Bridge to a Wired Connection

- Connect a LAN Cable from the Display Adapter to the AP Router.
- From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

3. From the **Setup** screen, click on the **Network** tab.





Network tab

- 4. Click on the Wired Connection link.
- 5. A pop-up screen will appear with the following options:
 - Obtain an IP address automatically: An IP address from DHCP server will be assigned automatically.
 - Set IP address manually: Allows you to set an IP address manually
 - Subnet Mask: Enter the Subnet Mask e.g. 255.255.255.0
 - Gateway Address: Enter the Routers address
 - DNS Server: Enter the IP address of the DNS (Domain Name Service) server.



Configuring Night Mode

Night Mode allows you to keep theater sounds at a lower volume. It increases the level of low level audio while decreasing the level of high level audio.

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen



2. From the Setup screen, click on the Audio tab.



Audio screen

3. Click the Night Mode link to enable or disable the mode.

Setting HDMI Output Method

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Audio** tab.





Audio screen

Click the HDMI Output link and select an HDMI Output Method from the drop-down list.

Configuring a Surround Sound Mode

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Audio** tab.





Audio screen

Click the Surround Sound link and select a mode from the drop-down list.

Configuring Lip Sync Mode

Lip Sync mode synchronizes audio and video together so no audio delay is visible within the video.

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen



2. From the Setup screen, click on the Audio tab.



Audio screen

Click the Lip Sync link and select a mode from the dropdown list.



Configuring Aspect Ratio

Allows you to manually set a video aspect ratio.

 From the *Remote Control* screen, click on the **Setup** Button, the *Setup* screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Video** tab.



Video screen



Click the Aspect Ratio link and select a ratio from the dropdown list.

Configuring a TV System

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Video** tab.



Video screen



Click the TV System link and select an option from the dropdown list.

Scaling Video Output

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Video** tab.



Video screen



Click the Scale Video Output to 90% link to enable or disable the feature.

Configuring Video Output

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **Video** tab.



Video screen



3. Click the 1080p 24Hz link to enable or disable the feature.

Setting the On-Screen Display Language

 From the Remote Control screen, click on the Setup Button, the Setup screen will appear.



Setup screen

2. From the **Setup** screen, click on the **System** tab.



System screen



Click the Language link and select a language from the drop-down list.

Resetting the Display Adapter to Factory Settings

1. From the **Remote Control** screen, click on the **Setup** Button, the **Setup** screen will appear.



Setup screen

2. From the **Setup** screen, click on the **System** tab.



System screen



- Click on the Factory Default link to reset the Display Adapter to the factory defaults.
- Power cycle the **Display Adapter** for the changes to take place.

Resetting the Display Adapter's IP Address

The **Reset** button is located on the bottom of the **Display Adapter**.

- Using a Pen gently press and hold the recessed Reset button for 10 seconds while the Display Adapter is still connected to the AC Power Adapter.
- The IP Address and Name will return to the factory default setting.



Checking the Current Firmware Version

Note: the firmware version can also be found on the **Screen-Share Home** screen.

 From the *Remote Control* screen, click on the **Setup** Button, the *Setup* screen will appear.



Setup screen



2. From the Setup screen, click on the System tab.



System screen

Click on the Version Info link to see the current firmware version.

Note: To update the firmware please refer to the <u>Updating</u> Firmware section of the manual.



ScreenShare Mode

Installation

Note: New versions of this product do not include a **Driver CD**. Please visit <u>www.StarTech.com/WIFI2HDMC</u> and navigate to the **Drivers/Downloads** tab to download the latest **Drivers**.

- Ensure you have .NET Framework version 3.5 installed prior to installing ScreenShare
- Insert the included software CD into the computer's CD/DVD drive. You may also download the latest version from our website.
- Run the Autorun.exe application from the Autoplay menu. If Autoplay is disabled on your system, browse to your CD/DVD drive and run the application.
- Choose Typical Installation from the following screen and click Install.



Ouick Installer screen



- Follow the on screen instructions to complete the installation.
- 6. When finished, restart the computer.

Logging into ScreenShare

- Switch the **Display Adapter** device into ScreenShare mode by pressing the **Mode Select** button on the **Display Adapter** (located next to the USB connector).
- 2. The *Home* screen will appear on the **Display**.

Note: The **Login Code** will be displayed at the bottom of the screen.



Login Code



 On your Notebook / PC, search and connect to the Display Adapter's SSID (wireless network) on the Wireless Network

Connection screen.



Wireless Network Connection screen

 Click the ScreenShare icon from your desktop or Start Menu.



ScreenShare Icon



 ScreenShare will auto detect the **Display Adapter**. Enter the input **Login Code** that is located in the top right-hand corner of the *Home* screen as indicated in step 2, then click



ScreenShare Login screen

Checking the MAC Address

 The MAC address can be found on the *Home* screen, and is located on the bottom right of the *Home* screen.



Checking the MAC Address



ScreenShare Panel Controls

 Once you have logged into the ScreenShare app the Panel Control screen will appear.



Panel Control screen

- From the **Panel Control** screen the following controls are available:
 - Play/Pause: Starts or pauses the presentation.
 - Stop: Stops the presentation and returns to the Information screen.
 - Menu: Allows you access to advance menu options.
 - Login Code: Displays the current login code.
 - Mute: Mutes the volume of the presentation.
 - Volume Up/Down: Turns the volume of the presentation up or down.
 - Information: Displays application information (adapter name, IP address, radio band, version).
 - Minimize: Minimizes the Panel Control screen to the Taskhar
 - Close: Closes the Panel Control screen.



Configuring a Display Mode

1. From the **Panel Control** screen, select the **Menu**



2. The *Menu* screen will appear.



Menu screen

3. Select the **Display Mode** link, a pop-up screen will extend.



Display Mode screen

- 4. Select either:
 - Mirror Mode: Mirrors the content on the main display.
 - Extend Mode: Extends the main display's viewing area two multiple displays allow for a larger display area.



5. Select which display the mode will apply to.



Select a display

Configuring a Display Resolution

- 1. From the *Panel Control* screen, select the **Menu** icor
- 2. The *Menu* screen will appear.



Menu screen



Select the HDMI Resolution link, a pop-up screen will extend.



HDMI Resolution screen

4. Select a **Resolution** from the pop-up screen.



Configuring the Display's Aspect Ratio

1. From the **Panel Control** screen, select the **Menu**



2. The *Menu* screen will appear.



Menu screen

3. Select the **Aspect Ratio** link, a pop-up screen will extend.



Aspect Ratio screen

 Select an Aspect Ratio from the pop-up screen, which allows you to set the width and height ratio of the display.



Enabling Auto Resolution

1. From the *Panel Control* screen, select the **Menu**



2. The *Menu* screen will appear.



Menu screen

3. Select the **Settings** link, the **Settings** screen will appear.



Setting screen

 Select Enable Auto Adjust Resolution to enable/disable automatic resolution adjustments.



Click the **Apply** button to save the changes made on the **Settings** screen.

Enabling Auto Save

- 1. From the *Panel Control* screen, select the **Menu** icon
- 2. The Menu screen will appear.



Menu screen

3. Select the **Settings** link, the **Settings** screen will appear.



Setting screen



- Select Enable Auto Save to enable/disable the auto save function.
- Click the **Apply** button to save the changes made on the **Settings** screen.

Exiting the ScreenShare App

1. From the **Panel Control** screen, select the **Menu**



2. The *Menu* screen will appear.



Menu screen

- 3. Select the Exit link.
- 4. A **Confirmation** screen will appear asking **Do you really** want to exit? click the **Yes** button to exit to the Login screen.

- or -

Click the **No** button to return to the ScreenShare App.



Playing Media from a USB Stick

- Connect your Smartphone/Tablet or Notebook to the WIF12HDMC device and navigate to the Setup (remote) page using a web browser.
- Plug your USB stick into the port located on the side of the WIF12HDMC device.
- Navigate the USB stick contents using the web remote to choose the video, music or picture file you would like to view.

AirFun Utility

Installation

Note: New versions of this product do not include a **Driver CD**. Please visit <u>www.StarTech.com/WIFI2HDMC</u> and navigate to the **Drivers/Downloads** tab to download the latest **Drivers**.

The AirFun utility is available for PC (on the included software CD), iPhone or Android platforms.

Android/iPhone

 Download and install the latest version of the AirFun utility from your mobile app store.

PC

 Insert the included software CD into the computer's CD/ DVD drive, or download the latest drivers from http://www. starTech.com.



- Run the Autorun.exe application from the Autoplay menu. If Autoplay is disabled on your system, browse to your CD/DVD drive and run the application.
- 3. Select **Software Installation** from the menu.
- Choose Typical Installation from the following screen and click Install.

Note: This will install both the AirFun and the ScreenShare utilities (outlined later in this manual). Should you only desire to install only the AirFun utility, choose Custom Installation and de-select Screenshare.

Follow the on screen instructions to complete the installation(s).

Operation

Android/iPhone

 Open the AirFun app, it will begin to automatically search for the Display Adapter.



Searching for a Device



 Once found, tap the buttons for either Photo/Music Playback or Video <u>Playback</u> and choose the file you wish to

view/play.



Please choose a scenario screen

PC

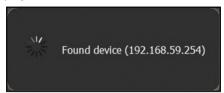
1. Click the AirFun icon from your desktop or Start Menu.



AirFun Icon



The AIRFUN utility will begin to search for the WIFI2HDMC device. If the device is not found before the timeout period, it will display **No device found**.



Found Device screen

If successfully connected, you should be able to see your PC screen on the TV.



AirFun app

- Drag the video/photo/music file to the **Airfun** main menu directly.
- 5. For video files, drag files to the **Video Playback** folder.
- For photo/music files, drag files to the Photo/Music Playback folder.



Warranty Information

This product is backed by a two-year warranty.

For further information on product warranty terms and conditions, please refer to www.startech.com/warranty.

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