ASUS Miracast Dongle

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E-MANUAL

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Contents

Conventions used in this manual

To highlight key information in this manual, some texts are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing tasks and prevent damage to your ASUS Tablet's data and components.

Typography

Bold = This indicates a menu or an item that must be selected.

Italic = This indicates sections that you can refer to in this manual.

Package contents
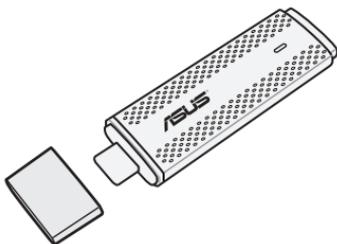
ASUS Miracast Dongle
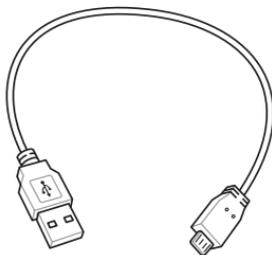
Micro USB cable

User manual
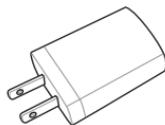
Power adapter

NOTES:

- If any of the items is damaged or missing, contact your retailer.

- The bundled power adapter varies with country or region.

Knowing the parts
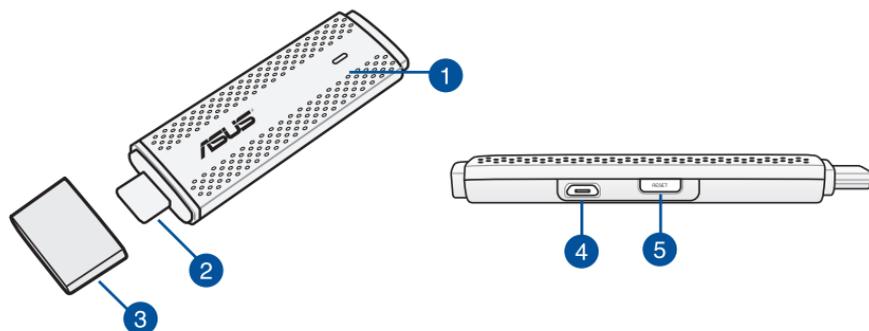
① **LED indicator**

This three-color LED indicator indicates the current status of the ASUS Miracast Dongle during different usage scenarios.

> **NOTE:** Refer to the *LED Color Tables* section in this manual for more details.

② **HDMI connector**

This connector allows you to connect the ASUS Miracast Dongle to a compatible HDMI-enabled display.

③ **Cover**

Fasten this cover on top of the HDMI connector when the ASUS Miracast Dongle is not in use.

④ **Micro USB port**

Insert the micro USB cable into this port to connect your ASUS Miracast Dongle to a power source.

⑤ **ASUS Miracast Dongle reset button**

Press this button to perform a factory reset or firmware update for your ASUS Miracast Dongle.

> **NOTE:** For details on how to update your firmware, refer to the *Updating the firmware* section in this manual.

LED Color Tables

The following LED Color tables detail usage scenarios and the LED indicator's corresponding behaviors.

For general usage

Color	Status
Solid Blue (after connecting to a power source)	This appears five seconds after successfully connecting your ASUS Miracast Dongle to your external display and to a power source.
Blinking blue	Your ASUS Miracast Dongle is currently trying to pair with your mobile device.
Solid Blue (after pairing with a mobile device)	Your ASUS Miracast Dongle is now paired and ready to use with your mobile device.

During a firmware update

Color	Status
Solid red	Five seconds after pressing the reset button, your ASUS Miracast Dongle is ready to do a firmware update.
Blinking red	Your ASUS Miracast Dongle is currently updating its firmware.
Solid blue	The firmware update is done. **NOTE:** Reconnect the mobile device to your ASUS Miracast Dongle to share contents on an external display.

When doing a factory reset

Color	Status
Purple	Ten seconds after pressing the reset button, your ASUS Miracast Dongle is ready for factory reset.
Blinking purple	Your ASUS Miracast Dongle is currrently undergoing factory reset.
Solid blue	Factory reset is done. **NOTE:** Reconnect the mobile device to your ASUS Miracast Dongle to share contents on an external display.

Using your ASUS Miracast Dongle

Connecting to an HDMI-enabled display

NOTE: The following illustration is for reference only.

1. Connect the micro USB cable to your ASUS Miracast Dongle.
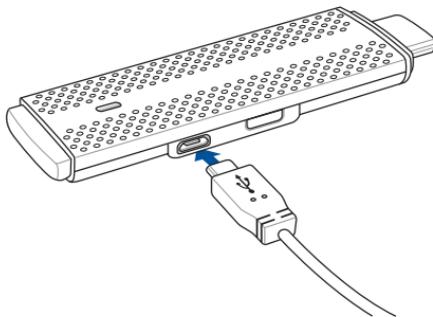
2. Connect your ASUS Miracast Dongle to a power source using either of the following options:

Using a power outlet

A. Connect the ASUS Miracast Dongle to the power adapter.

B. Plug the power adapter to a nearby power outlet.
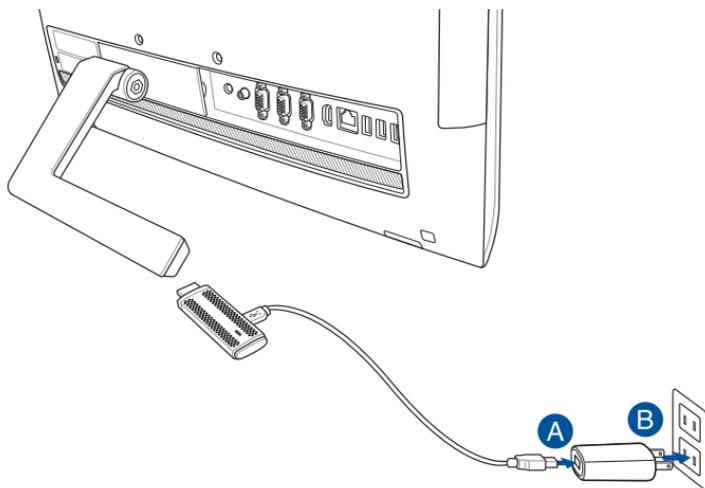
Using the USB port on the external display
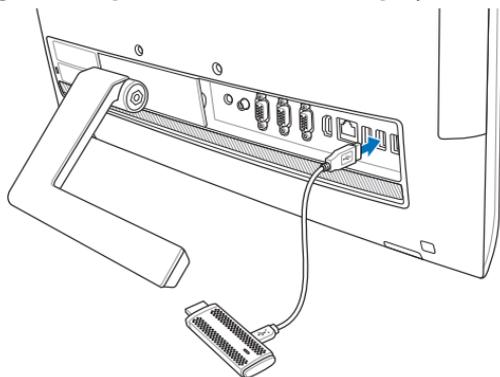
3. Connect the HDMI connector of your ASUS Miracast Dongle to the HDMI port of your external display.

> **NOTE:** Refer to the following illustrations for details on the complete setup, based from your ASUS Miracast Dongle's power source.
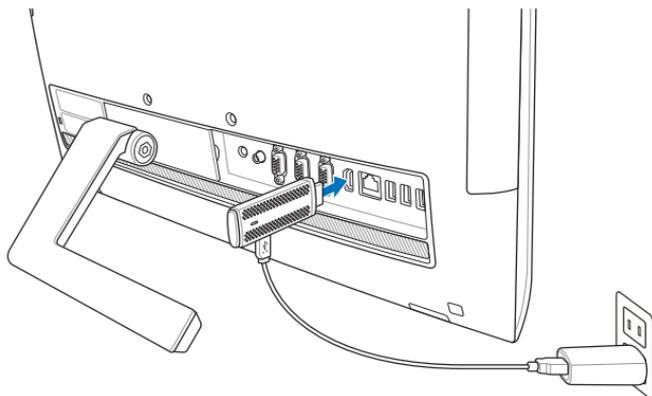
The ASUS Miracast Dongle is plugged to a power outlet and connected to the external display.
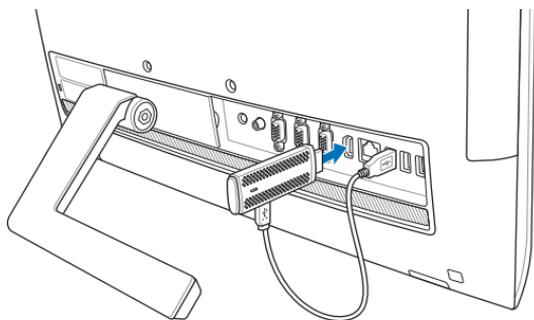
The ASUS Miracast Dongle is connected to the external display's USB port and HDMI port.

4. Turn on your tablet or mobile device and follow the steps shown onscreen to begin sharing your content with the external display.

   NOTE: For more details on connecting your device with the ASUS Miracast Dongle, refer to the *Connecting to your mobile device* section in this manual.
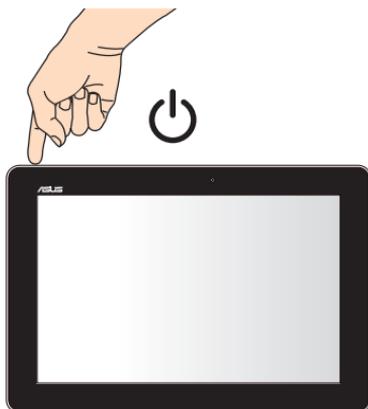
Connecting to ASUS mobile devices

NOTE: The following procedures are applicable for ASUS Miracast-supported mobile devices.

A. Ensure that the HDMI input of your external display is enabled.
B. The following screen appears once the ASUS Miracast Dongle is successfully connected to your display.

ASUS Miracast Dongle

C. Swipe down on the home screen of your mobile device to open the notification box below.
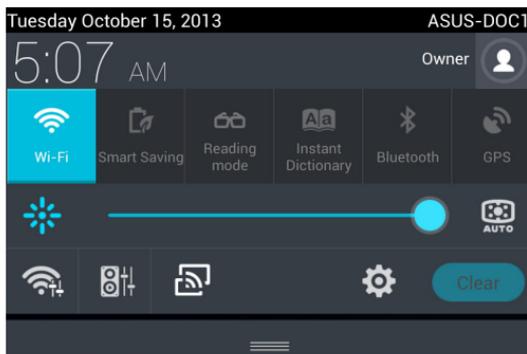
D. Tap to launch **Settings.**

D. Set the **Search for display** and **Wi-Fi** options to **ON** then refer to the SSID shown on your external display. Select the same SSID on your mobile device to pair it with your ASUS Miracast Dongle.
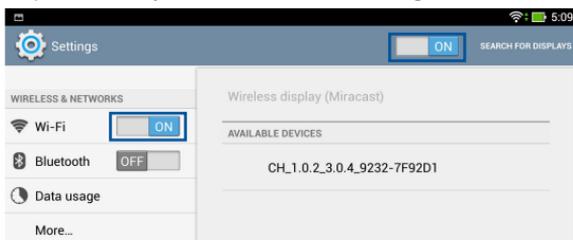
E. Your external display shows the following image while the ASUS Miracast Dongle tries to establish a connection with your mobile device.

ASUS Miracast Dongle
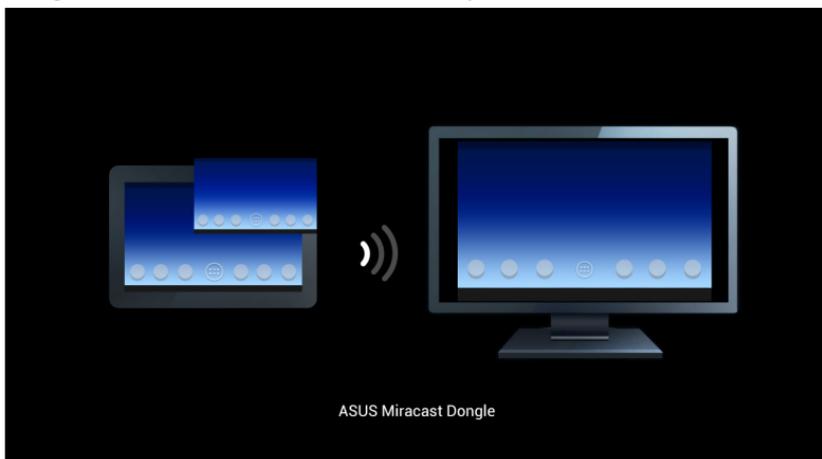
F. Once the connection is sucessfully made, your external display will reflect the same display currently shown on your mobile device.

Connecting to other mobile devices

NOTE: The following procedures are applicable for non-ASUS mobile devices that are also supported by the ASUS Miracast Dongle.

A. Ensure that the HDMI input of your external display is enabled.
B. Activate Wi-Fi on your mobile device.
C. Activate the Wi-Fi display settings of your mobile device.

> **NOTE:** Refer to your mobile device's user manual for details on enabling content and media sharing to another display output using Wi-Fi connection.

D. Select the ASUS Miracast Dongle SSID shown on your mobile device.
E. Once the connection is sucessfully made, your external display will reflect the same display currently shown on your mobile device.

Updating the firmware

To guarantee maximum performance of your ASUS Miracast Dongle, update your firmware using either of the following options.

Automatic firmware update via an ASUS mobile device

1. Ensure that your ASUS Miracast Dongle is currently connected to your external display and your mobile device.
2. Swipe down on the home screen of your mobile device to open the notification box then tap the following notification.

   This shows up if a new firmware is available for download.

⚠	ASUS Miracast dongle	11:24 AM
	New firmware is available now, tap to download the latest firmware	
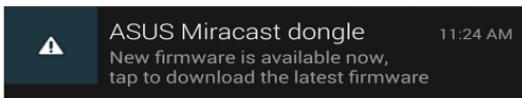
3. When the ASUS Miracast Dongle starts to enter the firmware update mode, the following image appears on ASUS mobile device.

⬇	ASUS Miracast dongle	11:25 AM
	Firmware download in-progress	
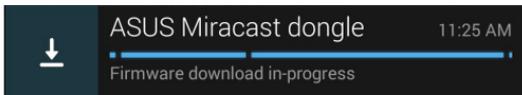
4. Once your mobile device has completed downloading the latest firmware update, the following image appears. Tap it to proceed updating your ASUS Miracast Dongle.
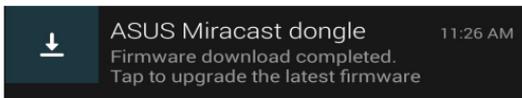
⬇	ASUS Miracast dongle	11:26 AM
	Firmware download completed. Tap to upgrade the latest firmware	

4. Your external display shows the following image while your ASUS Miracast firmware is being updated.

Updating ASUS Miracast Dongle...
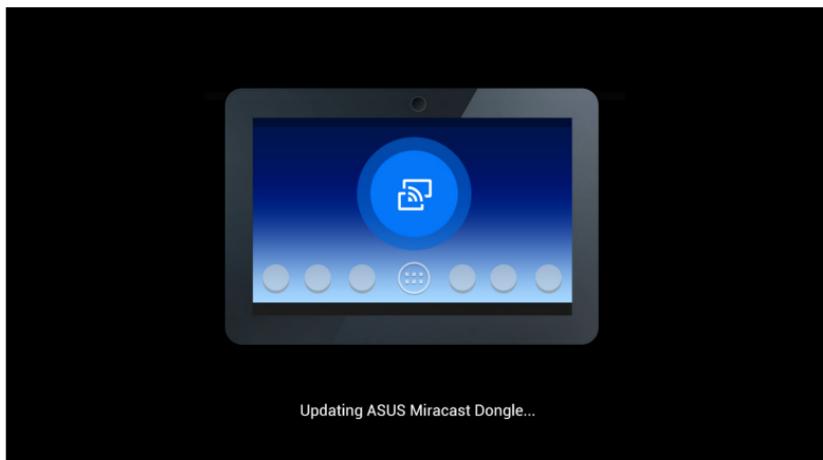
While the following image is shown on your mobile device.

ASUS Miracast dongle   11:29 AM
Firmware update in-progress
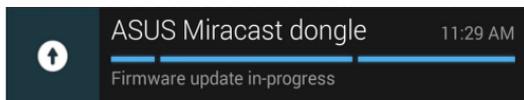
5. The following notification appears on your mobile device after your firmware is successfully updated.

ASUS Miracast dongle   11:30 AM
Firmware upgrade successfully and restart the dongle
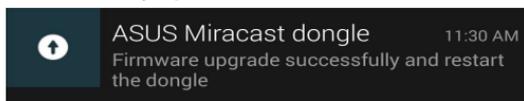
Manual firmware update via your laptop

1. Ensure that your ASUS Miracast Dongle is currently connected to your external display.
2. Download the latest ASUS Miracast firmware through the support site or the following product page: **http://www.asus.com/Tablet_Mobile_Accessories/**
3. Extract the file in .sbin file format on your laptop.
4. Press and hold the ASUS Miracast reset button for five seconds then release it once the LED indicator becomes red. This indicates that your ASUS Miracast Dongle is now ready to do the firmware update.
5. Connect the ASUS Miracast Dongle to your laptop using the SSID shown on your external display.
6. Open the internet browser on your laptop and connect to **http://192.168.8.1**
7. Click **Browse** to select the downloaded firmware file (.sbin) then click **Upload.**

ASUS Miracast Dongle
Firmware Update

Current Firmware Version CH_1.0.2_3.0.4_9232
Please Select a file to update

Update Image file

Browse...

Upload

8. Your external display changes to the following image while your ASUS Miracast firmware is being updated.

Updating ASUS Miracast Dongle...
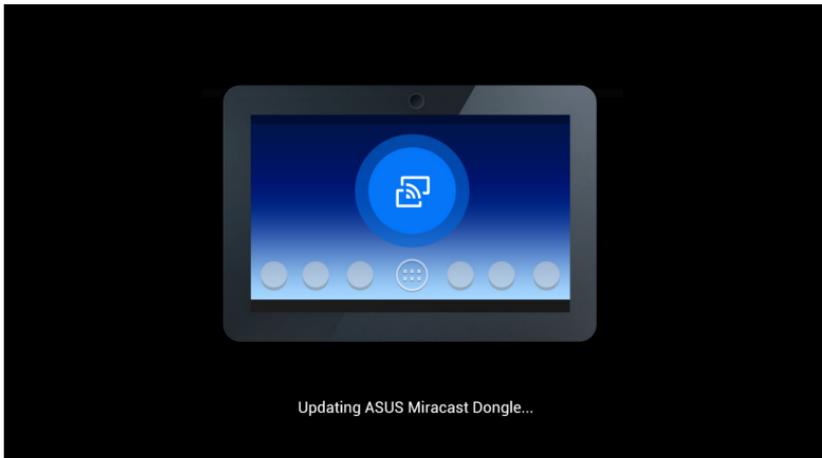
9. Your laptop displays the following image to indicate that the firmware update is already finished.

ASUS Miracast Dongle
Firmware Update

100%

SUCCESS
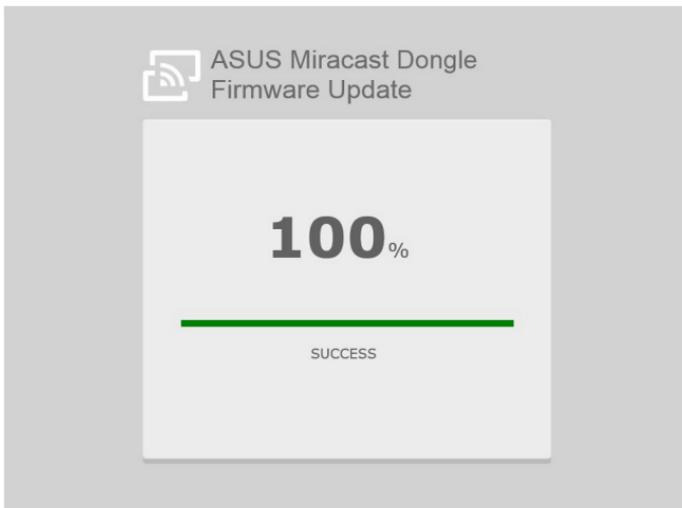
Enabling factory reset

If you want to restore your ASUS Miracast Dongle to its original factory settings, you can do a factory reset using the following steps:

1. Connect the ASUS Miracast Dongle to your external display.
2. Press and hold the ASUS Miracast reset button for ten seconds then release it once the LED indicator becomes purple.
3. The LED indicator shows a blinking purple to indicate that the factory reset is currently in process.
4. Factory reset is finished when the LED indicator returns to a solid blue.

Conformity Statements

Federal Communication Commission Interference 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

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

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

This device is slave equipment, the device is not radar detection and not ad-hoc operation in the DFS band.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

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.

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (les antennes se situent à moins de 20 cm du corps d'une personne).

• The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems;high power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LE-LAN devices.

The Country Code Selection feature is disabled for products marketed in the US/Canada.