

M73 Series Network Projector Operation Guide

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## Preparation

Your BenQ projector is equipped with wired and wireless network function. Via a network connection you can project what is shown on your computer or mobile device's screen using the **QCast** app. You can also manage and control the projector from remote devices such as desktops, laptops, tablets, and smartphones using web browsers.

In order to take advantage of these features, you need to complete the steps described in the following sections. The basic workflow for projecting through a network is:

- Set up a wired or wireless network for the projector.
   See "Setting up a wired network for the projector" on page 6 or "Setting up a wireless network for the projector" on page 8 for details.
- 2. Connect your computer or mobile device to the projector.
  - For wired connections, see "Connecting your computer to the projector via a wired connection" on page 7 for details.
  - For wireless connections, see "Connecting your computer or mobile device to the projector wirelessly" on page 9 for details.
- 3. Download **QCast** on your computer or mobile device.
  - For downloading **QCast** on your computer, see "Downloading QCast" on page 11 for details.
  - For downloading **QCast** on your mobile devices, see "Downloading **QCast**" on page 22 for details.
- 4. Project via **QCast**.
  - For using your computer to project via wired connections, see "Launching QCast" on page 12 for details.
  - For using your computer to project via wireless connections, see "Launching QCast" on page 12 for details.
  - For using your mobile device to project, see "Launching QCast" on page 23 for details

## Switching to Advanced Menu

When you first enter the projector's OSD menu, you will see the OSD's **Basic Menu**. Before you can configure the projector and network settings to use the features described in this guide, you need to switch to the OSD's **Advanced Menu**. Follow the steps below to switch to the **Advanced Menu**:

- I. Turn on the projector.
- 2. Press **MENU** to open the OSD's **Basic Menu**.
- 3. Highlight Menu Type and press OK.
- 4. Highlight **Advanced** and press **OK**.

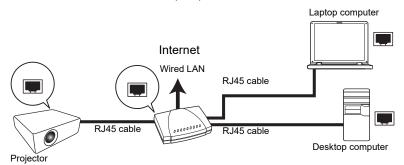
The OSD menu will now be set to the **Advanced Menu** which allows you to start configuring the network settings.



After setting the **Menu Type** to **Advanced**, the **Advanced Menu** will be shown every time you press the **MENU** button.

### Wired connections

For projecting through a wired network, you need to connect the projector and your device to the same local area network (LAN).



## Setting up a wired network for the projector

#### If you are in a DHCP environment:

If your projector is in a DHCP environment, you do not have to manually set the IP address. Follow the steps below to configure the wired network settings for the projector in a DHCP environment:

- 1. Connect the projector to a local area network via an RJ45 cable.
- 2. Turn on the projector.
- 3. Press **MENU** to open the **Advanced Menu**.
- 4. Highlight Network and press OK.
- 5. Highlight Wired LAN and press OK.
- 6. Highlight **DHCP** and press **OK**.
- 7. Select **On** and press **OK**.
- 8. Highlight **Apply** and press **OK**.
- Re-enter the Wired LAN page and check if the IP Address, Subnet Mask, Default Gateway, and DNS Server have been automatically configured. Make sure the Status is Connect.



If the IP Address still does not appear, contact your network administrator.

#### If you are in a non-DHCP environment:

If your projector is in a non-DHCP environment, you need to manually set the IP Address, Subnet Mask, Default Gateway, and DNS Server. Follow the steps below to configure the wired network settings for the projector in a non-DHCP environment:

- I. Repeat step I to 5 described in "If you are in a DHCP environment:" on page 6.
- Highlight DHCP and press OK.
- 3. Select **Off** then press **OK**.
- Contact your network administrator for information on the IP Address, Subnet Mask, Default Gateway, and DNS Server settings.
- Enter the projector's IP Address, Subnet Mask, Default Gateway, and DNS Server and assign the values as needed.
- 6. After finishing the settings, highlight **Apply** and press **OK**.

Your projector is now connected to your local area network and can be accessed by any devices linked to the same local area network.



Alternatively, to check the IP address of the projector, make sure the projector is connected to the network, and press **SOURCE** on the projector and then select **Network Display**. The IP address is displayed on the bottom left corner of the **Network Display** screen.



# Connecting your computer to the projector via a wired connection

Follow the steps below to connect your computer to the projector through the local area network:

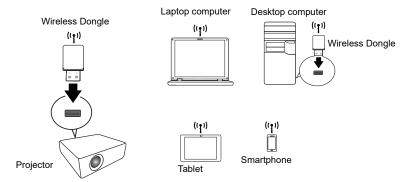
- Ensure the projector is connected to the local area network. You can enter the Wired LAN page to check if the IP Address, Subnet Mask, Default Gateway, and DNS Server are configured as needed and if the Status is Connect.
- 2. Connect your computer to the same local area network via an RJ45 cable. Now your computer and the projector are on the same local area network.



Your computer should be properly configured to detect a wired network connection. Check the user manual of your computer or visit the manufacturer's website for information on how to configure a wired network connection.

#### Wireless connections

If you want to project wirelessly, you must first install the BenQ WDRT8192 USB wireless dongle onto your projector. This USB wireless dongle is not shipped with your projector and is sold separately. Do not install any other type of wireless dongle or module.

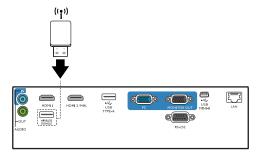


With the USB wireless dongle, your projector will be able to operate as a wireless LAN access point (AP), allowing you to connect your computer or mobile device directly to this ad hoc network. Furthermore, with the USB dongle installed, the projector can also connect to your organization's wireless network so that you can access the Internet while projecting and making a presentation. See "Network Setup" on page 18 or "Accessing the Internet with a wireless connection" on page 40 for details on accessing the Internet via a wireless connection.

## Setting up a wireless network for the projector

In order to use your projector wirelessly, follow the steps below:

- 1. Turn off the projector if it is powered on.
- Insert the designated USB wireless dongle into the WIRELESS DONGLE port at the rear of the projector.
- 3. Turn on the projector.





- Never insert the dongle into the projector while the projector is powered on, as the network connection may not be made properly.
- · If you intend to re-insert the dongle during operation, power off the projector first.



The wireless dongle should only be installed into the **WIRELESS DONGLE** port. Installing the dongle into the **USB TYPE-A** port on the projector will prevent the wireless dongle from functioning.

A wireless network for the projector will be set up automatically. The projector is now operating as a wireless LAN access point and can be accessed wirelessly by your computer or mobile device.

If you want to check the projector's wireless network connection status, follow the steps below:

- I. Press MENU to open the Advanced Menu.
- 2. Highlight **Network** and press **OK**.
- 3. Highlight Wireless LAN and press OK.
- 4. Highlight **Point to Point** and press **OK**.
- On the Point to Point page, make sure that Status is Connect, and that the Network (SSID) information and IP Address are displayed.



- Network (SSID) is the projector's ID used to identify the projector over the network and can be modified. If you want to modify the SSID, select the **Network (SSID)** on the **Point to Point** page and the **(SSID)** page will appear. On the **(SSID)** page, you can modify the projector's SSID. Select **Commit** to have the modifications take effect.
- The projector supports WPA2 security encryption.
- The SSID has a maximum length of 13 alphanumeric characters.
- The SSID and password can also be modified using a web browser. See "Network Settings" on page 38 for details.

# Connecting your computer or mobile device to the projector wirelessly

Follow the steps below to connect your computer or mobile device wirelessly to the projector:

- Make sure the BenQ USB wireless dongle has been properly inserted into the WIRELESS DONGLE port at the rear of the projector.
- Check the projector's wireless network connection status. Go to the Point to
  Point page, make sure the Network (SSID) has been set up and the Status shows
  Connect.
- Open the wireless menu of your computer or mobile device and search for the available wireless networks.
- 4. Select the SSID of the projector.
- Enter the login password to connect to the projector. You can find the password on the (SSID) page.



If your computer or mobile device cannot detect the wireless network, check the user manual of your computer or mobile device or visit the manufacturer's website for information on how to connect to a wireless network.



Alternatively, to check the login passwords and SSID of the projector, make sure the USB wireless dongle is properly connected to the projector, and press **SOURCE** on the projector. Select **Network Display**. The SSID and password are displayed on the upper right corner of the screen.



## Projecting via **QCast** (for PCs)

**QCast** is an application that allows you to project your computer's screen as well as photos and documents saved on your computer on the BenQ network projector.

## Minimum system requirements

Before installing and running **QCast**, please make sure your computer meets the requirements listed below.

- Computers with Windows Operating System (OS):
  - Supported OS version: Windows 7 / 8.0 / 8.1 / 10
  - CPU: Dual Core Intel Core i 2.4GHz equivalent or above
  - Memory: 4GB DDR memory or more
  - Graphics: 256MB VRAM equivalent or more
  - Atom processors are not supported
- Computers with Mac OS:
  - Supported OS version: Mac OS X 10.11 / OS X 10.12 (The latest 2 versions will be supported.)
  - CPU: Dual Core Intel Core i 1.4GHz equivalent or above
  - Graphics: Intel or nVIDIA or ATI with 64MB VRAM equivalent or more
  - PowerPC is not supported.



BenQ does not guarantee compatibility in respective user environments. Certain users may experience compatibility issues when running **QCast**.

## Prerequisite

The basic workflow for projecting via **QCast**:

- Download QCast from BenQ's website.
- 2. Install **QCast** on your computer.
- Connect your computer to the projector.
- Select Network Display in the input source menu.
- Launch QCast and start projecting.

### Downloading **QCast**

Visit BenQ's website at <a href="http://business-display.benq.com/en/getsupport/downloads.html">http://business-display.benq.com/en/getsupport/downloads.html</a> or <a href="http://www.BenQ.com">www.BenQ.com</a> and search for the projector by model name, and then download the latest version of <a href="https://www.gengle.gov/qcast-from-the-projector">QCast</a> from the projector's feature page.

## Installing QCast

#### For Windows OS

- 1. When the download from BenQ's website is complete, double-click the .exe file.
- 2. Follow the on-screen instructions to finish the installation.

#### For Mac OS

- When the download from BenQ's website is complete, double-click the .dmg file to make its content available.
- Drag the content into the computer's **Applications** folder. The installation will be processed automatically.

## Connecting your computer to the projector

You can connect your computer to the projector either through a wired or wireless network.

#### Wired connection

Make sure you have set up a wired connection for the projector and connected your computer and the projector to the same local area network. See "Wired connections" on page 6 for details.

#### Wireless connection

Make sure the BenQ WDRT8192 USB wireless dongle is installed on your projector and your computer has been connected to the projector's wireless network. See "Wireless connections" on page 8 for details.

## Selecting **Network Display** in the input source menu

Before projecting your computer's screen to the projector, you have to select **Network Display** in the input source menu.

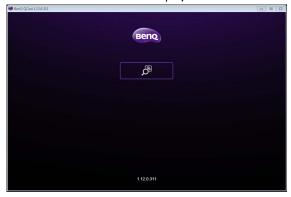
- I. Press **SOURCE** on the projector.
- Highlight Network Display and press OK.

## Launching **QCast**

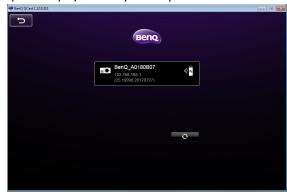
I. Launch OCast.



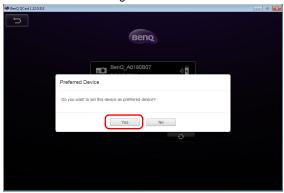
2. Click the Search button to detect available projectors.



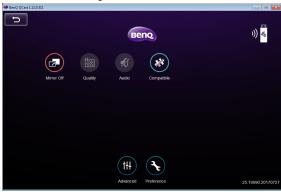
3. Click the preferred projector and your computer will connect to the projector.



4. A preferred device prompt will display. Click Yes if you want to set the projector as the default projector. If the projector is set as the default projector, the next time you launch QCast your computer will search for the projector and automatically connect to it if it is available through the network.



 After you confirm or decline the preferred device setting, the QCast main screen will appear. You can start using QCast.



## Using **QCast**



The display texts on the user interface may vary by operation system, though the functions are identical.



No.	Function	Description
1	Mirror Off / Mirror On / Mirror Extension	Allows you to mirror or extend your screen to the projector. See "Mirror Off / On / Extension" on page 15 for details.
2	Quality	Allows you to adjust the image quality. See "Quality" on page 16 for details.
3	Audio	Allows you to broadcast audio on the projector. See "Audio" on page 16 for details.
4	Compatible	Allows you to mirror the mouse-over information of a document or folder on your computer. See "Compatible" on page 17 for details.
5	Advanced	Allows you to view more functions for <b>QCast</b> . See "Advanced" on page 17 for details.
6	Preference	Allows you to set your personal preferences. See "Preference" on page 21 for details.

## Role assignment

The first user connected to the projector using **QCast** is designated as the host. Users that join subsequently are designated as guests. Only the host is allowed to use the **Advanced** function. See "Advanced" on page 17 for details.

## **Network Display Code**

If you are the first user (the host) connected to the projector, when you click the **Mirror Off** / **Mirror On** button to mirror your computer screen on the projector, a password prompt will display requesting a password. You will need to enter the **Network Display Code** to start mirroring. The **Network Display Code** is displayed at the upper right corner of the **Network Display** screen.





- If the **Network Display** screen is not shown on the projector, press **SOURCE** on the projector and then select **Network Display** to view the screen.
- Subsequent users (the guests) do not have to enter the Network Display Code to join the session. However, their projection requests must be approved by the host. See "Preference" on page 21 for details.

#### Mirror Off / On / Extension

You can switch between different display options by clicking the Mirror Off / Mirror On / Mirror Extension button. The options available are: Mirror Off, Mirror On, and Mirror Extension.

lcon	Name	Description
	Mirror Off	When <b>Mirror Off</b> is displayed, your screen is not mirrored on the projector.
(Z)	Mirror On	When <b>Mirror On</b> is displayed, your screen is mirrored on the projector, allowing other users to see your screen.
	Mirror Extension	When <b>Mirror Extension</b> is displayed, the projector will act as an extended desktop for the computer.



If you are the first user and you click the Mirror Off / Mirror On / Mirror Extension button to switch to Mirror On, a password prompt will appear. See "Network Display Code" on page 15 for details.



Certain computers may not support **Mirror Extension**. If you are notified of a display extension failure, check the user manual of your computer or visit the manufacturer's website for more information about mirroring or extending your screen.

X
Failed to enable extended display, please check this computer supports extended display

OK

## **Quality**

You can switch between High Quality and Low Quality by clicking the Quality button.

lcon	Name	Description
	High Quality	When <b>High Quality</b> is displayed, the mirrored screen will have better image quality but slower transmission speed.
	Low Quality	When <b>Low Quality</b> is displayed, the mirrored screen will have normal image quality but faster transmission speed
H	Quality	This button is not selectable when <b>QCast</b> is set to <b>Mirror Off</b> .

## **Audio**

You can switch between Audio Off and Audio On by clicking the Audio button.

lcon	Name	Description
<b>%</b>	Audio Off	When <b>Audio Off</b> is displayed, the projector's speaker is turned off.
•	Audio On	When <b>Audio On</b> is displayed, the projector's speaker is turned on.
Ø	Audio	This button is not selectable when <b>QCast</b> is set to <b>Mirror Off</b> .

## **Compatible**

When you hover your cursor over a document or folder while projecting in **QCast**, the document or folder information will be displayed. The **Compatible** button allows you to enable/disable this function.

lcon	Name	Description
**	Grayed-out Compatible	When <b>Compatible</b> is grayed out, other users cannot see the hover-over information.
**	Compatible	When <b>Compatible</b> is on, other users can see the hover-over information.



The Compatible function is only supported on the computers running Windows 7.

#### **Advanced**

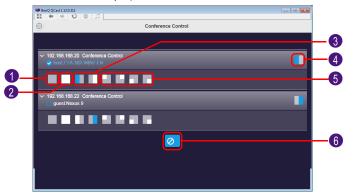
When you click **Advanced** on the main screen, the **Advanced** panel appears. The **Advanced** features the **Conference**, **Network Setup** and **Remote Control** options.

lcon	Name	Description
(†11)	Advanced	<ul> <li>Consists of Conference, Network Setup and Remote Control options.</li> <li>Only the host is allowed to access the options in the Advanced menu.</li> <li>Guests will not be able to use the Advanced options and the button will be grayed out on their screens.</li> </ul>



#### Conference

**Conference** allows the host to create and manage a presentation where there are multiple users connected to the projector.



No.	Description
1	Disconnects the user from the presentation.
2	Projects the user's screen in full-screen mode.
3	Projects the user's screen in half-screen mode.
4	Displays/Hides the user status bar.
5	Projects the user's screen in 4-way split screen mode.
6	Disconnects all users, including the host, from the presentation.



For hosts, a **Network Display Code** is required during the initial conference. For guests, login requests require the host's approval. See "Network Display Code" on page 15 and "Preference" on page 21 for details.

#### **Network Setup**

When an ad hoc wireless network is setup for your projector using the steps described in the Wireless connections section, connections to the projector by your computer or mobile device will lack internet access. The **Network Setup** option allows you to connect the projector to a wireless network that provides connected devices Internet access.

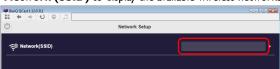


This option is also available via the projector's OSD. See "Accessing the Internet with a wireless connection" on page 40.

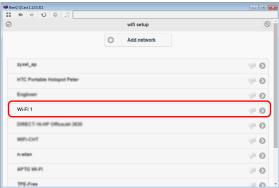
#### Accessing the Internet via Network Setup

Follow the steps below to connect your projector to a wireless network with Internet access:

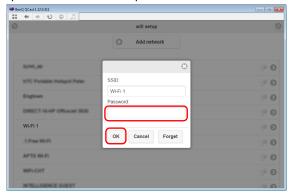
- Click Network Setup on the Advanced panel to prompt the Network Setup screen.
- 2. Click the **Network (SSID)** to display the available wireless networks.



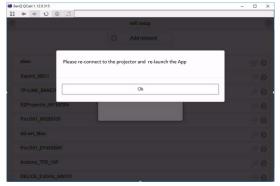
 A list of the wireless networks that can be detected by the projector will be displayed. Select the wireless network that you want to connect your projector to.



4. Enter the password and click **OK** to proceed.

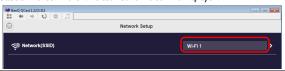


 If the projector successfully connects to the wireless network, a message will appear instructing you to reconnect the projector. When this message appears, turn off QCast and reconnect your computer to the projector and re-launch QCast.



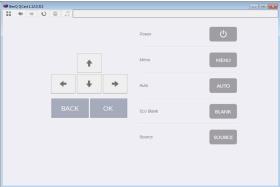


For confirming if the projector is connected to the wireless network, you can re-enter the **Network Setup** in **QCast** and check if the wireless network's SSID is displayed.



#### **Remote Control**

When you click **Remote Control** on the **Advanced** panel, a virtual keypad appears. It allows you to control the projector as if using the physical keypad on the projector.



#### **Preference**

**Preference** allows users to set customized settings that are in effect when they are designated as the host.





- My Hostname: Sets a custom name for your computer. Press Set to make the hostname go into effect.
- Current Device: Displays the projector which you are currently mirroring your screen to.
- Preferred Device: Check to make the current projector your default projector when using QCast.
- Host Control: Check Do not disturb to automatically reject projection requests from guests. Check Auto allow request to automatically accept projection requests from guests.

**QCast** supports up to 4 users presenting via a 4-way presentation. If **Auto allow** request and **Do not disturb** are not checked, a request confirmation box will appear on the host's screen whenever a guest attempts to project, as seen in the image below.



- Full Screen: Click Full Screen to accept the request and enter the full screen projection.
- Share: Click Share to accept the request and then decide to use the 2-way or 4-way projection.
- Deny: Click Deny to decline the request.

## Projecting via **QCast** (for mobile devices)

**QCast** is an application that allows you to project your mobile device's screen as well as photos and documents saved on your computer on the BenQ network projector.

## Minimum system requirements

Before installing and running **QCast**, please check to make sure your mobile device meets the requirements listed below.

- Mobile devices with Android Operating System (OS):
  - Supported OS version: Android 5.0
  - CPU: Quad Core equivalent or above
  - Memory: IGB memory or more
  - Storage: At least 100MB free space needed
- Mobile devices with iOS:
  - Supported OS version: iOS 9 / 10 (The latest 2 versions will be supported.)
  - All iPhone models after iPhone 5 are supported
  - All iPad models after iPad mini 2 are supported
  - Storage: At least 100MB free space needed



BenQ does not guarantee compatibility in respective user environments. Certain users may experience compatibility issues when running **QCast**.

## Prerequisite

The basic workflow for projecting via **QCast** is:

- 1. Select **Network Display** in the input source menu.
- Download and install QCast using the app store of your mobile device.
- 3. Connect your mobile device to the projector.
- Launch QCast and start projecting.

## Selecting **Network Display** in the input source menu

Before projecting your computer's screen to the projector, you have to select **Network Display** in the input source menu.

- I. Press **SOURCE** on the projector.
- 2. Highlight **Network Display** and press **OK**.

## Downloading **QCast**

1. Ensure that the projector's input source is set to **Network Display**.

 Make sure that your mobile device has Internet access. Scan the QR code displayed on the Network Display screen. The QCast download screen will appear on your mobile device.



3. Follow on-screen instructions to download and install **QCast** on your mobile device.

## Connecting your mobile device to the projector

To wirelessly connect your mobile device to the projector, follow step 2 shown on the **Network Display** screen, or see "Wireless connections" on page 8 for detailed instructions.

## Launching **QCast**

I. Launch QCast.



2. Tap QCast.



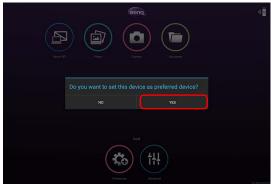
3. Tap the Search button to detect available projectors.



4. Tap the preferred projector and your mobile device will connect to the projector.



5. A preferred device prompt will display. Tap Yes if you want to set the projector as the default projector. If the projector is set as the default projector, the next time you launch QCast your computer will search for the projector and automatically connect to it if it is available through the network.



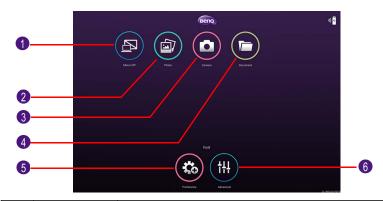
 After you confirm or decline the preferred device setting for default projector in previous step, the QCast main screen will appear. You can start using QCast.



## Using QCast



The display texts on the user interface may vary by operation system, though the functions are identical.



No.	Function	Description
1	Mirror Off / Mirror On	Allows you to mirror your screen to the projector. See "Mirror Off / Mirror On" on page 27 for details.
2	Photo	Allows you to display and share the images saved on your device. See "Photo" on page 28 for details.
3	Camera	Allows you to use your device's camera to broadcast a live video feed via the projector. See "Camera" on page 28 for details.
4	Document	Allows you to share the documents saved on your device. See "Document" on page 28 for details.
5	Preference	Allows you to set your personal preferences. See "Preference" on page 21 for details.
6	Advanced	Allows you to view more functions for <b>QCast</b> . See "Advanced" on page 17 for details.

## Role assignment

The first user connected to the projector using **QCast** is designated as the host. Users that join subsequently are designated as guests. Only the host is allowed to use the **Advanced** function. See "Advanced" on page 17 for details.

## **Network Display Code**

If you are the first user (the host) connected to the projector, when you tap the **Mirror Off/On** button to mirror your computer screen on the projector, a password prompt will display requesting a password. You will need to enter the **Network Display Code** to start mirroring. The **Network Display Code** is displayed at the upper right corner of the **Network Display** screen.





- If the **Network Display** screen is not shown on the projector, press **SOURCE** on the projector and then select **Network Display** to view the screen.
- Subsequent users (the guests) do not have to enter the Network Display Code to join the session. However, their projection requests must be approved by the host. See "Preference" on page 21 for details.

#### Mirror Off / Mirror On

You can switch between Mirror Off and Mirror On by tapping the Mirror Off / Mirror On button. This button will not be displayed on devices running iOS.

lcon	Name	Description
	Mirror Off	When <b>Mirror Off</b> is displayed, your screen is not mirrored on the projector.
	Mirror On	When <b>Mirror On</b> is displayed, your screen is mirrored on the projector, allowing other users can see your screen.



If you are the first user and you click the Mirror Off / Mirror On button to switch to Mirror On, a password prompt will appear. See "Network Display Code" on page 27 for details.

#### **Photo**

The Photo button allows you to share or display images saved on your device.

lcon	Name	Description
	Photo	<ul> <li>Follow the on-screen instructions or the user interface of your device to share or display your images.</li> <li>For sharing images saved on devices running iOS, the images have to be sent to QCast via iTunes.</li> <li>When this function is first used on the devices running iOS, a request confirmation prompt will pop up.</li> </ul>

#### Camera

The Camera button allows you to use your device's camera to broadcast a live video feed via the projector.

lcon	Name	Description
	Camera	<ul> <li>When this function is first used on the devices with iOS, a request confirmation prompt will pop up.</li> <li>Both portrait mode and landscape mode are supported.</li> </ul>

#### **Document**

The **Document** button allows you to present and share the documents saved on your mobile device.

lcon	Name	Description
	Document	Follow the on-screen instructions or the user interface of your mobile device to present or share your documents.



Documents on iPhone cannot be shared directly in this way. To share a document on iPhone, use Documents on Irnone carinot be shared directly in and incomputer.

#### **Advanced**

**Advanced** consists of **Conference**, **Network Setup** and **Remote Control** options. See "Advanced" on page 17 for details.

lcon	Name	Description	
(†14)	Advanced	<ul> <li>Consists of Conference, Network Setup and Remote Control options.</li> <li>Only the host is allowed to access the options in the Advanced menu.</li> <li>Guests will not be able to use the Advanced options and the button will be grayed out on their screens.</li> </ul>	

#### **Preference**

The **Preference** button allows users to set customized settings that are in effect when they are designated as the host.

lcon	Name	Description
(***)	Preference	Allows users to set My Hostname, Preferred Device and Host Control. See "Preference" on page 21 for details.

## Managing the projector using a web browser

Once the projector is connected to a wired local area network and the projector is on or in standby mode, you can use any computer that is in the same network to manage and control the projector via **BenQ Projector Control System** accessed through the computer's web browser.

## Supported web browsers

Make sure you are using one of the following web browsers:

Internet Explorer: 9 / 10 / 11
 Chrome: 55.0 / 56.0 / 57.0
 Safari: 8.0 / 9.0 / 10.0
 Firefox: 50.0 / 51.0 / 52.0

## Configuring Standby Settings for the projector

In order to control the projector remotely while the projector is in standby mode, you need to enable the Network Standby Mode and Monitor Out settings for the projector. To do so, follow the steps below:

- I. Press MENU on the projector to open the Advanced Menu options.
- 2. Highlight System and press OK.
- 3. Highlight Standby Settings and press OK.
- Highlight Network and press OK.
- 5. Highlight Enable Network Standby Mode and press OK.
- 6. Select **On** then press **OK**.
- 7. Press BACK to return to Standby Settings.
- 8. Highlight Monitor Out and press OK.
- 9. Select **On** then press **OK**.

## Accessing the BenQ Projector Control System

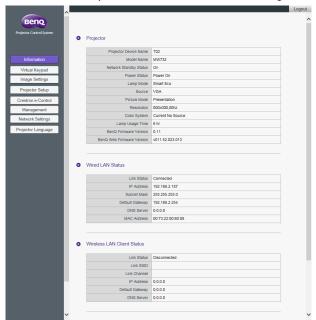
- Make sure your computer and the projector are connected to the same local area network. See "Wired connections" on page 6 for details.
- Launch the web browser on your computer.
- Enter the IP address of the projector in the browser's address bar and press the computer's Enter key.



You can follow the steps described in "Setting up a wired network for the projector" on page 6 to check the projector's IP address. Alternatively, you can press **SOURCE** on the projector. Select **Network Display**. The IP address is displayed on the bottom left corner of the screen.



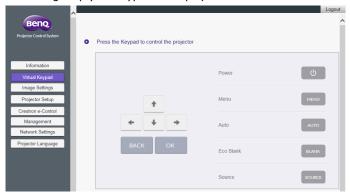
 The main page of BenQ Projector Control System appears. This web page provides access to a variety of functions described in the following sections.



#### Main function

#### Virtual Keypad

The **Virtual Keypad** page displays a virtual keypad with which you can control the projector as if using the physical keypad on the projector.



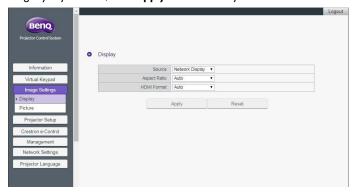
#### **Image Settings**

Image Settings consists of the Picture and Display pages.

#### **Display**

The Display page features Source, Aspect Ratio, and HDMI Format options.

After making any adjustments, click Apply to have the adjustments take effect.

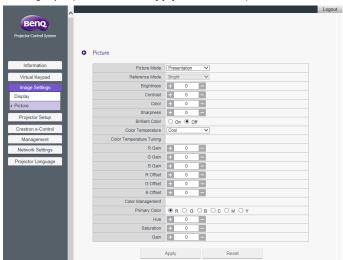


#### **Picture**

The **Picture** page allows you to adjust effects for projected images.

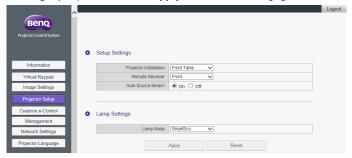
- Color Temperature Tuning: Allows you to adjust the color temperature.
- Color Management: Allows you to control conversion between the color representations of a variety of devices.

· After making any adjustments, click Apply to have the adjustments take effect.



#### **Projector Setup**

- Setup Settings: Allows you to choose the type of physical setting in which the
  projector is installed.
- Lamp Mode: Allows you to select different lamp mode to extend the lamp life as long as possible.
- · After making any adjustments, click Apply to make the settings go into effect.



#### **Crestron eControl**

The **Crestron eControl** page displays the **Crestron eControl** and RoomView user interface. The eControl page provides a variety of virtual keys to control the projector or adjust the projected pictures.



No.	Function
1	Click the <b>Tools</b> tab for more setting options and <b>Info</b> tab for information on the projector.
2	Allows you to select the input source.
3	These buttons function in the same way as the buttons on the OSD menus or remote control. See the chapter "Controls and Functions" in the user manual for details.



#### **Tools**

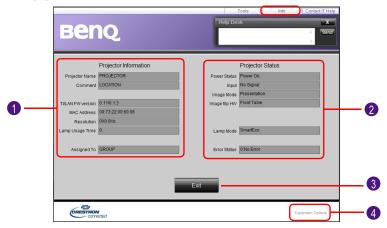
The **Tools** menu allows you to manage the projector, configure the wired LAN settings and protect access to the remote network operation for this projector. Every sub-menu can be configured separately. After making any adjustments, click **Send** to have the settings go into effect. Click **Exit** to return to the **BenQ Projector Control System** page.



No.	Function
1	Allows you to name the projector and add remarks for the projector. After making any adjustments, click <b>Send</b> to have the settings go into effect.
2	Allows you to configure the network settings. After making any adjustments, click <b>Send</b> to have the settings go into effect.
3	Allows you to set <b>User Password</b> . If <b>User Password</b> is enabled, a password will be required to access the remote network operation. After making any adjustments, click <b>Send</b> to have the settings go into effect.
4	Allows you to set <b>Admin Password</b> . If <b>Admin Password</b> is enabled, a password will be required for having access to the <b>Tools</b> page. After making any adjustments, click <b>Send</b> to have the settings go into effect.
5	Click <b>Exit</b> to return to the remote network operation page.

#### Info

The Info page includes the current status and information for this projector.

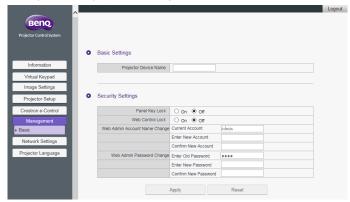


No.	Function
1	Displays basic information about the projector.
2	Displays the current status of the projector.
3	Click <b>Exit</b> to return to the remote network operation page.
4	Click <b>Expansion Options</b> for more information about the Crestron and RoomView monitoring and control system.

For more information about Crestron and RoomView monitoring and control system, visit http://www.crestron.com & http://www.crestron.com/microsites/get-roomview.

#### **Management**

The **Management** page allows you to name the projector for quick identification and set a password to protect the projector's configuration.



- Projector Device Name: Allows you to name the projector.
- Web Control Lock:
  - When set to Off (default), users are allowed to access the BenQ Projector Control System and change the projector's configuration.
  - When set to On, users can only review the Information page. An admin password will be required to enter other function control pages.
- Web Admin Account Name Change: Allows you to change the admin account name. The default account name is admin.
- Web Admin Password Change: Allows you to change the admin password. The
  default admin password is 0000.



- Record the new admin password if you change the admin password. If the admin password is lost, you must contact BenQ Customer Center to make an unlock request.
- Web Admin Account Name and Web Admin Password can only be changed when Web Control Lock is set to On.

Alternatively, you can also enable the **Web Control Lock** using the projector's OSD menu:

- I. Press **MENU** on the projector.
- 2. Highlight **Settings** and press **OK**.
- 3. Highlight Security Settings and press OK.
- 4. Highlight **Web Control Lock** and set it to **On**.



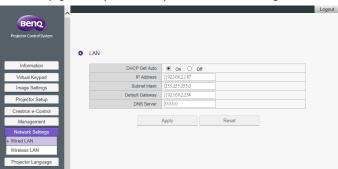
Once **Web Control Lock** is set to **On**, you cannot set the **Web Control Lock** to **Off** via the projector's OSD. To set **Web Control Lock** to **Off**, you need to have the admin password and reset **Web Control Lock** to **Off** via the **BenQ Projector Control System**.

#### **Network Settings**

Network Settings consists of the Wired LAN and Wireless LAN pages.

#### Wired LAN

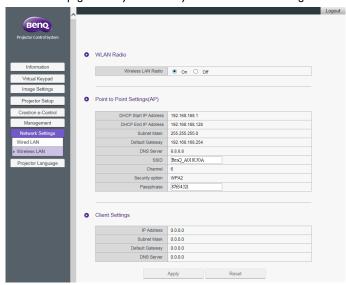
The **Wired LAN** page allows you to modify the Wired LAN settings.



DHCP Get Auto: If the projector is in a DHCP environment, set this setting to On
to obtain the IP address provided by the DHCP server. Set this setting to Off if you
want to configure the wired LAN settings manually.

#### **Wireless LAN**

The Wireless LAN page allows you to modify the wireless LAN settings.

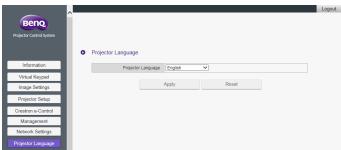


- The Point to Point Settings (AP) table will be blank if the projector is not installed with the BenQ WDRT8192 USB wireless dongle.
- Wireless LAN Radio: Allows you to reset the power for RF dongle.
- SSID: Allows you to modify the projector's ID for quick identification over the wireless network. The SSID has a maximum length of 13 alphanumeric characters.

- Password: Allows you to set the projector's login password. The Password has a
  maximum length of 8 alphanumeric characters.
- Client Settings: Displays the client settings only. It cannot be configured through this
  interface.

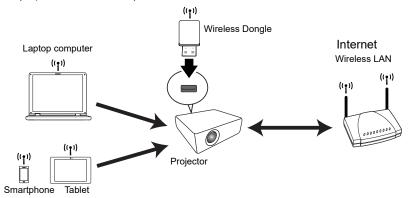
## **Projector Language**

The **Projector Language** page allows you to change the projector's OSD interface language.



# Accessing the Internet with a wireless connection

When a wireless network is set up for your projector as described in the Wireless connections section, connections to the projector by your computer or mobile device will lack internet access. You can obtain Internet access for the network either via **QCast** or the projector's OSD menu options.



## Accessing the Internet via **QCast**

- Make sure the projector is installed with BenQ WDRT8192 USB wireless dongle and a wireless network is set up for the projector. See "Setting up a wireless network for the projector" on page 8 for details.
- Make sure your computer or mobile device is connected to the wireless network created by the designated USB wireless dongle. See "Connecting your computer or mobile device to the projector wirelessly" on page 9 for details.
- Launch QCast. Go to the Network Setup page in the Advanced menu and configure the network settings. See "Accessing the Internet via Network Setup" on page 19 for details.

## Accessing the Internet via projector OSD

- I. Press **MENU** on the projector.
- 2. Highlight Network and press OK.
- 3. Highlight Wireless LAN and press OK.
- 4. Highlight Client and press OK.
- Highlight Network (SSID) and press OK.
- 6. Select a wireless network with Internet access and press **OK**.
- 7. Enter the password for the wireless network.
- 8. Highlight Commit and press OK.
- Return to the Client page. Check if the Status is Connect and the SSID of the desired wireless network is displayed. If so, the projector is connected to the desired wireless network.
- 10. Connect your computer or mobile device to the projector.

Now you can access the Internet while your device is wirelessly connected to the projector.



- The display format for SSIDs only support alphanumeric characters and underscores. If a router's SSID does not match this format, the router's MAC address will be shown instead.
- The projector can detect up to 16 router signals depending on the strength of the signal.
- The network router supports WPA2 security and its password has a maximum length of 20 alphanumeric characters.

## PJLink commands

This projector supports standard protocol PJLink for projector control. Supported commands are as below.



The below supported commands may vary depending on different models.

Command	Description	Parameter	
POWER OFF	Power control.	0 = Power Off	
POWER ON	Power control.	I = Power On	
Power?	Query the power status.	0 = Power Off I = Power On 2 = Cooling down 3 = Warm up	
INPT	Input switch command.	= VGA   	
INPT?	Query the current input switch status.	21 = SVideo 22 = CVBS 31 = HDMI 51 = CARD_READER 52 = LAN DISPLAY 53 = USB DISPLAY	
AVMT	Mute control.	I0 = Video mute off II = Video mute on	
AVMT?	Query the current mute status.	20 = Audio mute off 21 = Audio mute on 30 = Video & Audio mute off 31 = Video & Audio mute on	
LAMP?	Query the number of lamp hours.	Lamp hour	
INST?	Query the list which enables input switch.	Return "II 12 21 22 31 51 52 53"	
NAME?	Query the projector name.	Return "Digital Projector"	
INF0?	Query resolution information.	Return "Education Series"	
INFI?	Query the maker name.	Return "BenQ"	
INF2?	Query the model name.	Return model name as below, "BenQ Projector"	
CLSS?	Query class information.	Return "Version"	
ERST?	Query the error status	Error Status	
GET ALL	Query all status	Return all "?" items	