Firmware User Manual

Firmware version – v1.0

Suitable for Product Series:

- Touch Panel PC
- Panel PC
- Box PC
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Features

Compatible with Various Software Solutions:

- HTML5 standard and programming.
- W3C standard SMIL.
- Multiple video and audio formats defined by POPAI.
- 3rd party software CMS solutions.

System setup

System start up

Connect device to a display through HDMI cable, then power on the device with its power supply. The device will start the boot-up process within about (10) seconds. Once system completes boot-up process, it will display System Configuration homepage. The total boot-up process takes about (25) seconds.

Note* Make sure HDMI cable is well connected to the display and device. If the contents still do not show up on the display, try to re-plug the HDMI cable. Certified HDMI cable is highly recommended.

If contents have already been set up/ran on the device, it will play automatically (20) seconds after system boots up.
Note* When turning the device on for the first time, or after factory reset. The default content setting is void of any URL semantics (see Content URL right below Configuration), and the screen will keep showing the system settings screen until any further actions by user.

System Settings

User can connected an USB mouse/keyboard or air mouse* for settings configuration.

If the player has a touch screen, then all the controls can be managed through touch screen.

System Configuration:

- Content input box: Enter URL to set content.
- Date & Time, Ethernet, WiFi and Settings configuration UI shortcuts.

Note* Air mouse is an optional accessory, which can be used as a remote controller in some circumstances; user do not need to dismount or connect USB keyboard/mouse to the device in order to adjust setting preferences.

Content settings

1. Select the Content input box to enter SMIL/HTML5 content location.

2. Key in the SMIL/HTML5 content URL starting with “http://” or “https://”, then click the Play button.

Note* if the “Checking...” message stays on the Play button for a long time, please check the entered URL is a valid address.

3. When system completes its booting process, it shows the default System Configuration homepage with the content URL address played previously on the Content URL. If the SMIL/HTML5
content URL is available, a **Cancel autoplay (20 sec)** countdown message will appear on the **Play** button. The playback will start immediately after countdown. User can press the Cancel button to stop the countdown at any time.

**Return to System Configuration** - Quit playback while running SMIL or HTML5 content.

**By mouse:**
Hold down left button of your mouse and draw one full circle counterclockwise from 12 o’clock to 12 o’clock.

![Mouse gesture](image)

**By touch gesture (For device with touch screen only):**
Draw a full circle counterclockwise starting from 12 o’clock on the screen.

![Touch gesture](image)

*system will request for password if you had set a privacy password.

**Time zone settings**

1. Click on **Date & Time** shortcut.
2 Set time zone from the available options.

**Ethernet connection**

Device supports both wireless LANs or wired LANs. Wired Ethernet connection runs at a higher priority than the wireless LANs (under a scenario where both wired and wireless networks are connected).

**Ethernet DHCP** – automatically assign network IP address
- Turn ON/OFF switch to enable/disable Ethernet connection.

**Ethernet Static IP** – select Ethernet IP mode
- Select **Ethernet IP mode** to configure a static IP address.
Wireless connection

Wi-Fi DHCP – automatically assign network IP address

1. Click on the Wi-Fi shortcut to launch the wireless configuration UI.

2. Turn ON/OFF switch to enable/disable Wireless.

Once Wi-Fi is ON, system will search and will show all detected wireless LAN or wireless access point.
Choose a SSID to connect.

Password would be required if the network requires authentication.

Wi-Fi Static IP – Fixed Wi-Fi network IP address

1. Select the Advanced options check box.

   ![Advanced options checkbox]

   Click down arrow to hide keyboard if needed.

2. Select IP settings and choose Static.
3 Fill up required data and click on CONNECT to complete the setting.

(System Information)

User can easily check the system information by referring to the Settings shortcut on the System Configuration homepage.

The latest firmware version (FW Ver), model Name (Model) and serial number (SN) will be display on the Settings shortcut.

(System setting - Display settings)
Resolution settings (for Box PC)

Manually adjust the output resolution of the device to match display resolution.

1  Go to Settings > HDMI > HDMI Resolution

2  Select a suitable resolution from the pop-up HDMI Resolution menu. The Default resolution is set to Auto, meaning device auto detect and output the best-optimized resolution that your display supports.

Panel Brightness (for Panel PC)

The default panel brightness is set to maximum. Panel brightness can be adjusted in the Display settings.

1  Go to Settings > Display > Brightness Level

2  Set the preferred brightness level by moving the [LEFT-RIGHT] brightness slider.
Screen Orientation

The Screen Orientation setting provides the ability to change the screen orientation. The Screen Orientation menu provides (4) screen position options including 0-degree, 90-degree, 180-degree and 270-degree angle.

1. Go to Settings > HDMI (for Box PC) OR Display (for Panel PC) > Screen Orientation

2. Select the preferred screen orientation.

System setting - Sound settings

Adjust device output and touch sound volumes.

1. Go to Settings > Sound

2. There are (4) volume control setup options available: Media volume, Alarm volume, Notification volume, and Other sounds.
System setting – Factory reset (Hard reset)

User can reset device to factory default mode when encountered with an unexpected error or with an irrevocable system failure.

**Using the reset button (on device)**

1. Unplug power.
2. Press and hold the reset button with a sharp object.
3. Re-plug power.
4. Hold the reset button until the status LED flashes yellow light (about 35 seconds).
5. Release the reset button and the device will initialize the factory reset and will automatically reboot once done.

**Using the system setting – factory reset**

1. Go to **Settings >> Factory reset**

2. Select **Factory data reset**, and then execute **RESET DEVICE**. The device will begin to process a device reset to the factory default settings*.
**Note**: factory reset erases system App data and all setting/audio/video/image/other data will be disappear. Make sure to back up everything that you do not want lost or deleted before performing the factory reset.

<table>
<thead>
<tr>
<th>Factory data reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>This will erase all data from your device’s internal storage, including:</td>
</tr>
<tr>
<td>• Your Google account</td>
</tr>
<tr>
<td>• System and app data and settings</td>
</tr>
<tr>
<td>• System apps and system apps settings</td>
</tr>
<tr>
<td>• Music</td>
</tr>
<tr>
<td>• Photos</td>
</tr>
<tr>
<td>• Other user data</td>
</tr>
</tbody>
</table>

**System setting – Browser in Player**

User can switched between desktop mode and mobile mode when browsing website.

1. Go to **Settings >> Browser in player**
2. Select **Request desktop site**.

**System setting – Date & Time**

Network Time Protocol (NTP) is the default time synchronization protocol used by the device system. User can set time zone, time format, and NTP server in **date & time** settings menu manually.

Once the device has Internet connection, by default, it will automatically synchronize its system time to Android default timeserver (pool.ntp.org).

1. Go to **Settings >> Date & Time**
2. Click on the toggle bar of **Automatic date & time** to enable/disable the feature
3. Once disabling the **Automatic date & time toggle**, and then system will allow user to set the date and time manually.
Select **Setup NTP server** for redirecting device to another NTP server. Once the NTP server URL has been input, please click on the **SETUP NTP SERVER** button to confirm the change.

### System setting – Scheduled Reboot Settings

The Scheduled Reboot Settings allows user to set the device to automatically reboot at a specified time on the assigned time on a daily basis.

1. Go to **Settings >> Scheduled Reboot Settings**.
2. Click **Set time** to set up daily reboot time.

The default setting of **Optimize Server Performance** checkbox is checked (Enabled), which is highly recommend not to disable this function.
System setting – Security password

User can set private authorization password that gives permission to access to the System Configuration. The password can prevent the device from unexpected operation (meddling) to change or break the playback status, and may go back to the System Configuration homepage without Verified authorization.

2. Enable the Security password checkbox and create a password on the Choose your password input box.

Note* Every time you reset your security password, the existing password will be updated.

System setting – Firmware update

User can upgrade FW via USB interface*. Please carefully read the release notes before applying the FW upgrade.

*Note: Do NOT remove USB drive or unplug the unit or otherwise turn off the device while performing the FW update.

1. Latest firmware version is available at http://www.qbictechnology.com/support. Please download and save it to a USB drive.
2. Plug the USB drive into any available USB port on your device.
3. Plug in the power adaptor to power on the device.
4. After device boots up, go to Settings >> Firmware update >> Firmware update.
5. Click on the START FIRMWARE UPDATE button below the warning message to begin the FW update.
**System setting – Advanced Settings**

*Note Advanced Settings* is for developers and engineers’ operating usage. Advanced settings is NOT recommended for users without a thorough understanding of the system. Please do not change any settings without first discussing it with your expert technicians.
System setting – About device

About device shows several information about the device, including Status, Model number, Android version, Kernel version and Build number.
Content Management

The device is designed to work with 3rd party management solutions. Please refer to the printed guide for related set up instructions.

Support HTML5

All devices can support playback of HTML5 content, and exhibit good compatibility with multiple features of HTML5.

SMIL programming

All devices can support SMIL (Synchronized Multimedia Integration Language, SMIL, pronounced “smile”). SMIL is W3C recommended XML markup language which is the basis for an open communications protocols for content presentation and playback control. It defines markup for timing, layout, animations, visual transitions, and media embedding, among other things. SMIL allows presenting media items such as text, images, video, audio, links to other SMIL presentations, and files from multiple web servers. SMIL markup is written in XML, and has similarities to HTML.

The Synchronized Multimedia Integration Language enables simple authoring of interactive audiovisual presentations. SMIL is typically used for "rich media/multimedia" presentations, which integrate streaming audio and video with images, text or any other media type. SMIL is an easy-to-learn HTML-like language, and many SMIL presentations are written using a simple text-editor.

For a more detailed description of the goals of the SMIL language, see the W3C Activity Statement (http://www.w3.org/AudioVideo/Activity.html) on Synchronized Multimedia; a regularly updated report to W3C members that is also available to the public.