Router Setup Guide

1. Unbox the Router and Battery

2. Slide the battery voltage switch to **12V**
(higher voltages might damage the router)

3. Plug the cable (included with the battery) into the **OUTPUT** port on the battery and the power port on the router.

4. Connect the Router's antennas if needed

5. The lights on the router should start flashing and in a few minutes you can connect to the WiFi network
(if the lights don't come on, press the power button on the battery and make sure its charged)

Do not plug the 19V power adapter into the router.

Only use the 12V power adapter with the router.

PC Software Setup Guide

1. Download and install **RECentral** from the echo support website: http://www.echo1612.com/support

2. Download and install **echo1612** to your desktop from the echo support website

3. Follow the **Camera Setup Guide** and turn on your **Camera**

4. Launch the **RECentral** software on the computer

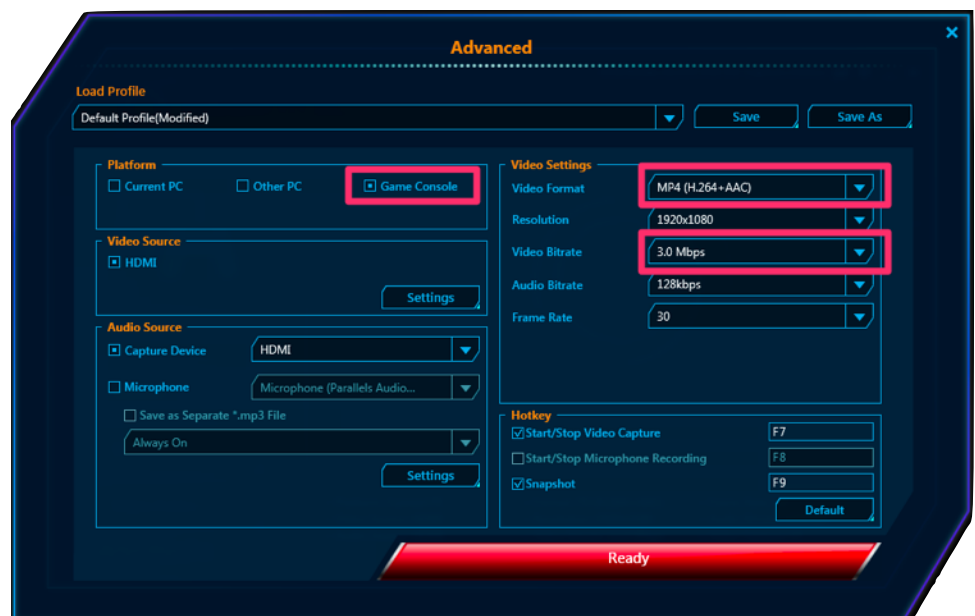**5.** Click the **Capture** button on the left side
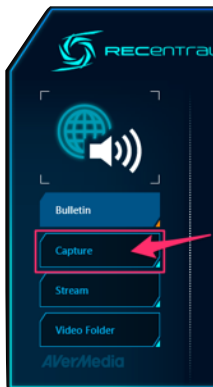
6. Click the **Advanced** button on the right of the red circle
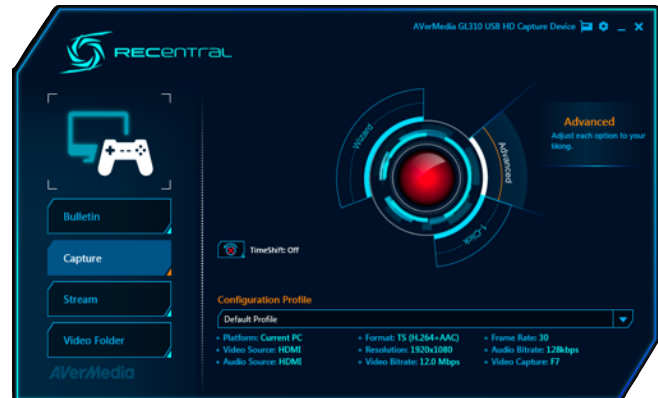
7. Set the following
Platform: **Game Console** or **Other PC**
Format: **MP4 (H.264+AAC)**
Video Bitrate: **3.0 Mbps**

8. Press the **Save** button and click **Ready**

PC Software Setup Guide

echo))))
instant replays on your iPad
1612

9. Verify these settings at the bottom of the screen
Platform: **Game Console** or **Other PC**
Format: **MP4 (H.264+AAC)**
Video Bitrate: **3.0 Mbps**

AVerMedia GL310 USB HD Capture Device

Ready

• Format: MP4 (H.264+AAC)   • Frame Rate: 30
• Resolution: 1920x1080   • Audio Bitrate: 128kbps
• Video Bitrate: 3.0 Mbps   • Video Capture: F7

10. Press the Red button and wait for the camera feed to display on the **RECentral** software
(if you hear feedback, mute the computer)
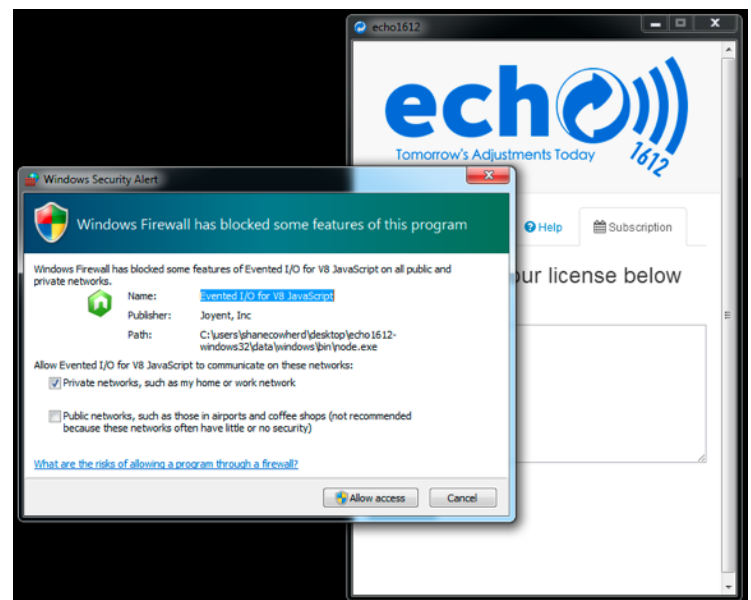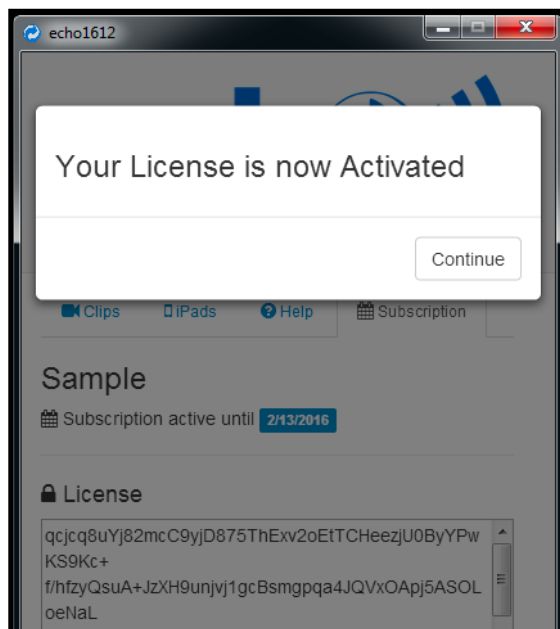
RECentral

AVerMedia   40.58 GB

11. Press the **REC** button to start and stop recording a clip
(you can also press the round glowing button on the AVerCapture box itself)

(you should see a 1-2 second delay. **It is important** that you stop recording after you see the play finish on the preview screen)

12. Launch the **echo** app on the computer

echo1612

13. **Allow access** on any firewall popups.
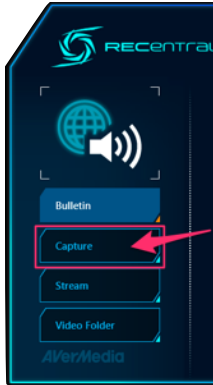(if you use another firewall, please allow echo or disable the firewall)

echo1612

Your License is now Activated

Continue

■Clips   □iPads   ❓Help   📖Subscription

Sample

📅 Subscription active until 2/13/2016

🔒 License

qcjcq8uYj82mcC9yjD875ThExv2oEtTCHeezjU0ByYPw
KS9Kc+
f/hfzyQsuA+JzXH9unjvj1gcBsmgpqa4JQVxOApj5ASOL
oeNaL

echo))))
Tomorrow's Adjustments Today
1612

❓Help   📖Subscription

ur license below

Windows Security Alert

Windows Firewall has blocked some features of this program

Windows Firewall has blocked some features of Evented I/O for V8 JavaScript on all public and private networks.

Name: Evented I/O for V8 JavaScript
Publisher: Joyent, Inc
Path: C:\users\shanecowherd\desktop\echo1612-
           windows32\data\windows\bin\node.exe

Allow Evented I/O for V8 JavaScript to communicate on these networks:
☑ Private networks, such as my home or work network

☐ Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

What are the risks of allowing a program through a firewall?

Allow access   Cancel

14. Enter your license key that was included in your welcome email.

15. Follow the **Quickstart Guide: PC**

QuickStart Guide: PC

echo)))
instant replays on your iPad
1612

1. Launch the **RECentral** software on the computer

AVerMedia
RECentral

2. Click the **Capture** button on the left side

AVerMedia GL310 USB HD Capture Device

Ready

3. Verify at the bottom
Platform: **Game Console** or **Other PC**
Format: **MP4 (H.264+AAC)**
Video Bitrate: **3.0 Mbps**
(if these settings are different, please follow the **PC Software Setup Guide**)

- Format: MP4 (H.264+AAC)
- Resolution: 1920x1080
- Video Bitrate: 3.0 Mbps
- Frame Rate: 30
- Audio Bitrate: 128kbps
- Video Capture: F7

4. Press the Red button and wait for the camera feed to display on the **RECentral** software
(if you hear feedback, mute the computer)
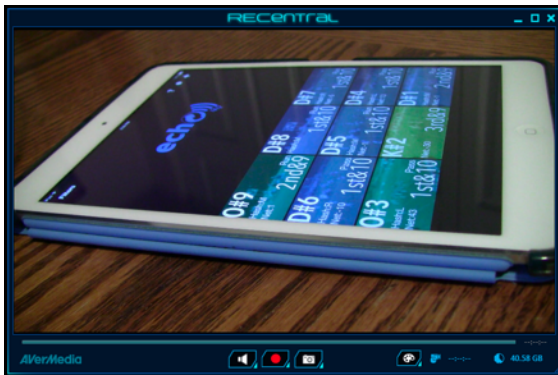
5. Launch the **echo** app on the computer

echo1612
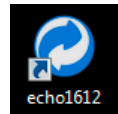
6. Press the **REC** button to start and stop recording a clip
(you can also press the round glowing button on the AVerCapture box itself)

(you should see a 1-2 second delay. **It is important** that you stop recording after you see the play finish on the preview screen)

Connect your iPad

1. Turn on your iPads and if needed install **echo1612** from the app store

2. Connect the iPads to the **echo 5** wifi network

3. Start **echo1612** on the iPads

4. Tap the **Add Clips** button at the top of the screen and select **Nearby Computers.**
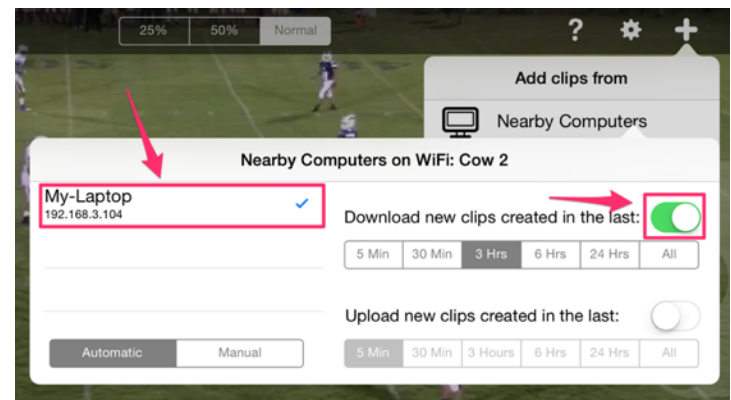
(If you see **SEARCHING** please follow the **Manual Connection guide**)

Now **select** your computer from the left and turn on **Download New Clips** and set the time to **ALL.**
(Any recorded video clips should start downloading)

25% 50% Normal

Add clips from
Nearby Computers

Nearby Computers on WiFi: Cow 2

My-Laptop
192.168.3.104

Download new clips created in the last:
5 Min | 30 Min | 3 Hrs | 6 Hrs | 24 Hrs | All

Upload new clips created in the last:
5 Min | 30 Min | 3 Hours | 6 Hrs | 24 Hrs | All

Automatic | Manual

Camera Setup Guide

echo))))
instant replays on your iPad
1612

Please follow the Software Setup Guide before continuing.

1. Turn on the Router using the **Router Setup Guide**

2. Connect the computer to the **echo 5** wifi network or to the router using a **cat 5** cable

3. Plug the **USB cable** into the **AVerCapture HD** box

4. Plug a **HDMI cable** into the **AVerCapture HD box's IN port**

5. Plug the **AVerCapture HD's USB cable** into the computer

6. (if required) use a **mini HDMI adapter** to connect the **HDMI cable** to the **Camera**
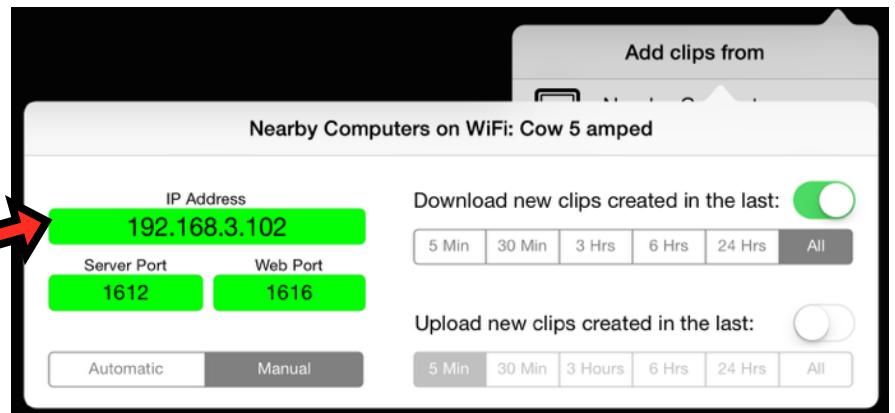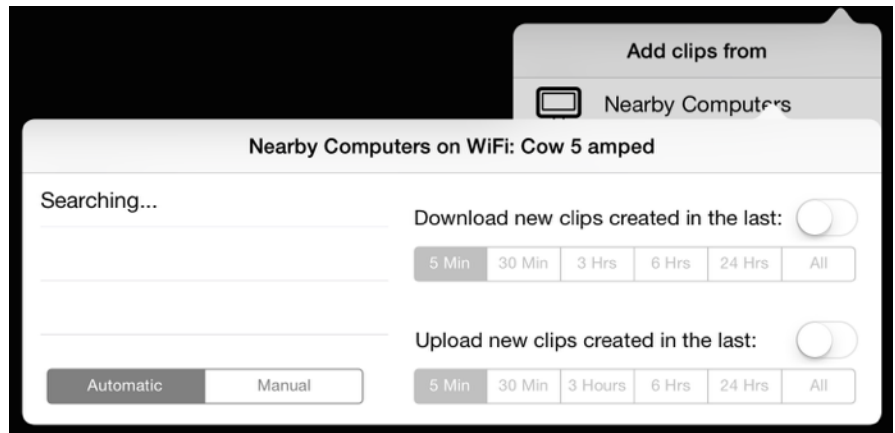
7. Plug the **HDMI cable** into the **Camera**

8. The camera should now be connected to the computer

9. Turn the camera on and make sure HDMI mirroring is enabled
(If you see video in the **RECentral** software then mirroring is enabled)

Manual Connection

echo
instant replays on your iPad
1612

1. If you only see **Searching** then click the **Manual** button

2. Verify that the iPad and Computer are on the **echo 5** wifi or connected to the router with a **cat 5** cable.

3. Open the **echo** app on the computer and click the **Help** tab.

4. Type the **Server IP** from the computer into the **IP Address** field on the iPad

Add clips from

Nearby Computers

Nearby Computers on WiFi: Cow 5 amped

Searching...

Download new clips created in the last:

5 Min | 30 Min | 3 Hrs | 6 Hrs | 24 Hrs | All

Upload new clips created in the last:

Automatic | Manual

5 Min | 30 Min | 3 Hours | 6 Hrs | 24 Hrs | All

echo1612

echo
Tomorrow's Adjustments Today
1612

Clips | iPads | Help | Subscription

Server IP: 192.168.3.102
Server Port: 1612
Web Port: 1616

Add clips from

Nearby Computers on WiFi: Cow 5 amped

IP Address
192.168.3.102

Server Port | Web Port
1612 | 1616

Automatic | Manual

Download new clips created in the last:

5 Min | 30 Min | 3 Hrs | 6 Hrs | 24 Hrs | All

Upload new clips created in the last:

5 Min | 30 Min | 3 Hours | 6 Hrs | 24 Hrs | All

5. On the iPad **Turn On** download new clips and set the time to **ALL.**

6. Any recorded clips should start appearing on the iPad.

Tips

If your IP address changes on the computer, you will need to update the iPads.

If you still can't connect, make sure your computer's firewall is not blocking echo.

A typical IP address is: 192.168.3.10X

Make sure you are connected to the same network.

PC Software Setup Guide

echo instant replays on your iPad **1612**

Tips

If your AVerCapture HD is not detected and the AVerCapture box has a blue spinning light
1. Close RECentral
2. Unplug your AVerCapture HD
3. Open the **Drivers** folder on your desktop
4. Open the **Default** folder
5. Run the installer that corresponds to your computer (Win7_x64 if you are unsure)
6. Restart your computer
7. Start RECentral
8. Plugin your AVerCapture HD
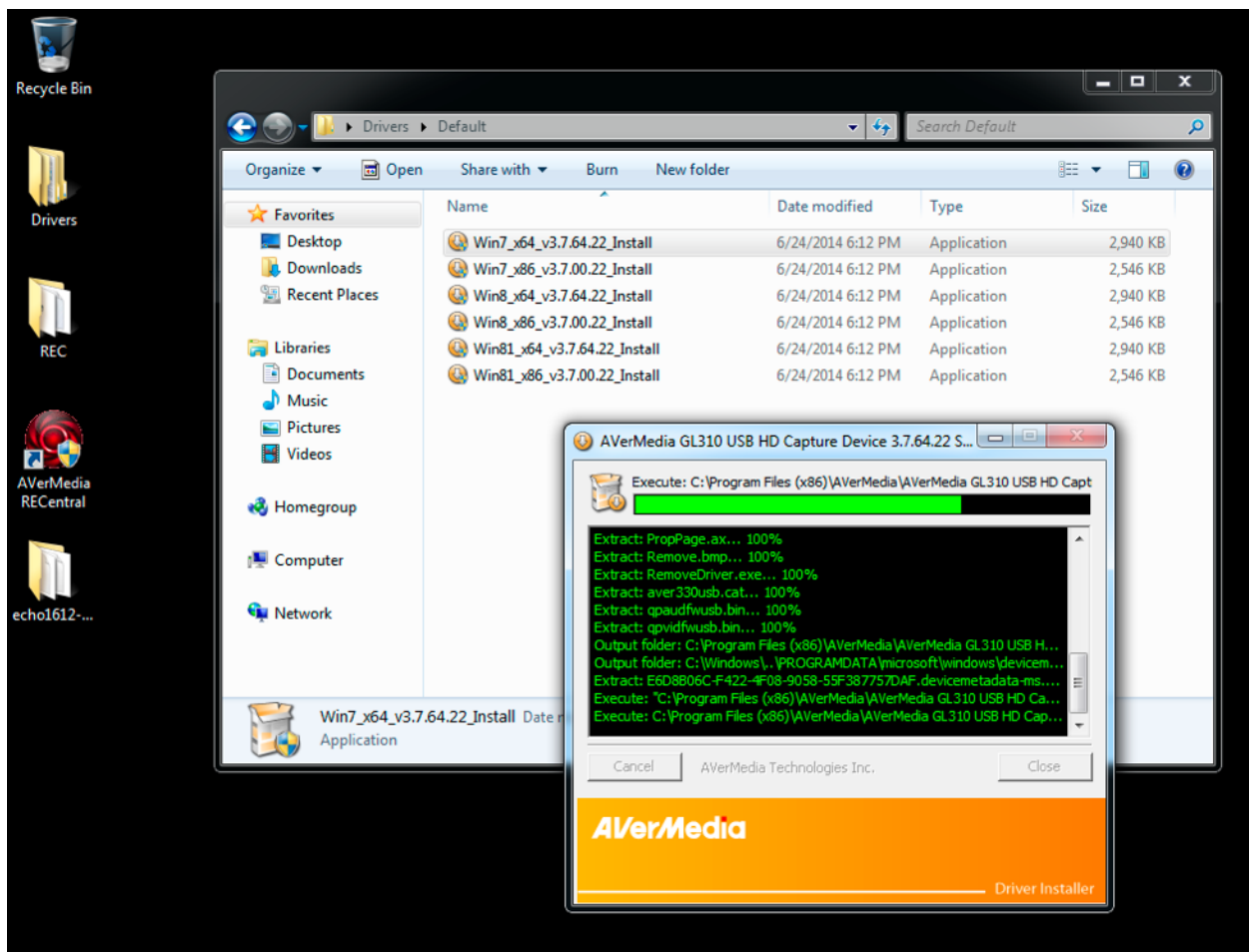
echo 5 WiFi

echo 5 runs on a 5GHZ frequency while echo 2 runs on a 2GHZ frequency.

We recommend you connect to the **echo 5** wifi network on your iPads.

If your computer can't see **echo 5** wifi and can only see **echo 2** then we recommend connecting the computer to the router with a **cat 5** cable.

Plug the **cat 5** cable into **Port 1** on the router and the **cat 5 port** on your laptop.

High Power Antenna
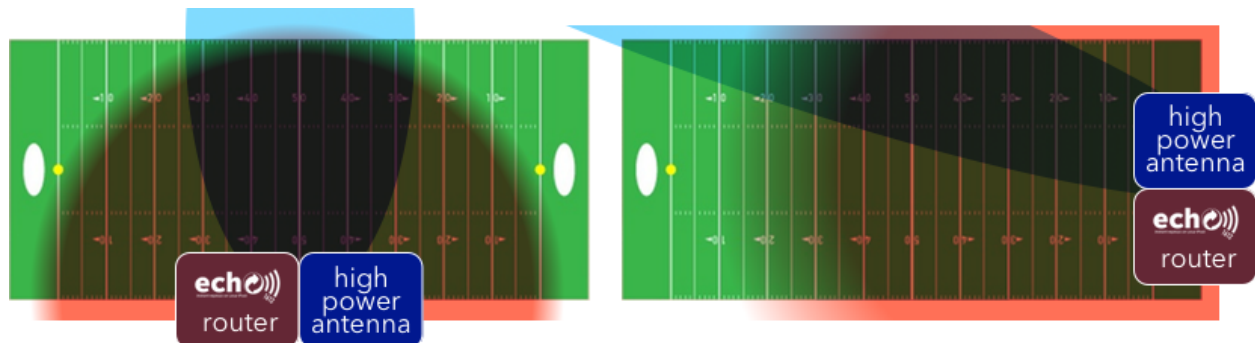
Connect your antenna to your router's antenna port closest to the **power cable**.

Point your antenna towards the coaches on the sidelines.

It is recommended that you keep your antenna 10 feet away from your headset antennas.

Charging your Battery

To charge your battery, use the included **19 Volt** power adapter and plug it into the battery's **Input** port.

When all the charging lights stay solid, the battery is charged.

We recommend charging the battery before every game.

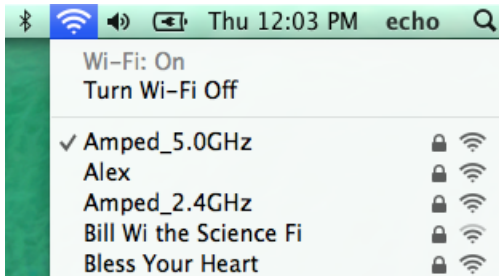**Do not plug this charger into your Router, it is too powerful.**

Router Programming Guide

echo)))
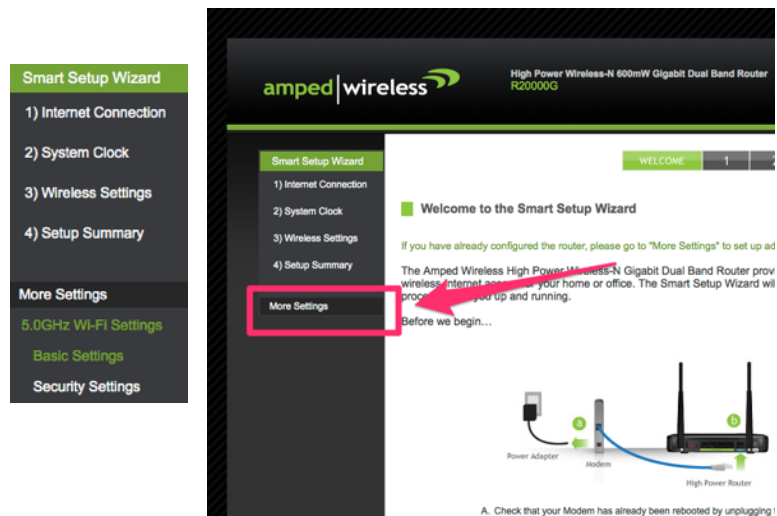instant replays on your iPad
1612

Your router is already programmed, this is just for reference.

---

1. Power on the router and connect to the WiFi network **Amped_5.0GHz**
(the password is **wireless**)

Thu 12:03 PM echo
Wi-Fi: On
Turn Wi-Fi Off

✓ Amped_5.0GHz
Alex
Amped_2.4GHz
Bill Wi the Science Fi
Bless Your Heart

2. In your browser goto: **http://192.168.3.1**
(login: **admin** pass: **admin**)

Smart Setup Wizard
1) Internet Connection
2) System Clock
3) Wireless Settings
4) Setup Summary
More Settings
5.0GHz Wi-Fi Settings
Basic Settings
Security Settings

amped | wireless
High Power Wireless-N 600mW Gigabit Dual Band Router
R20000G

Welcome to the Smart Setup Wizard

3. On the left menu bar, click **More Settings** then **5.0GHz WiFi Settings** then **Basic Settings**

Basic Settings (5GHz)
Disable 5.0GHz Wireless Connections:
Band: 5 GHz (A+N)
Broadcast SSID: ● Enable ○ Disable
Data Rate: Auto
Wireless Network ID (SSID): echo 5 – School Name
Channel Width: 40MHz
Control Sideband: Lower
Channel Number: Auto(DFS)
WMM: Enabled
Associated Clients: Show Active Clients
APPLY   RESET
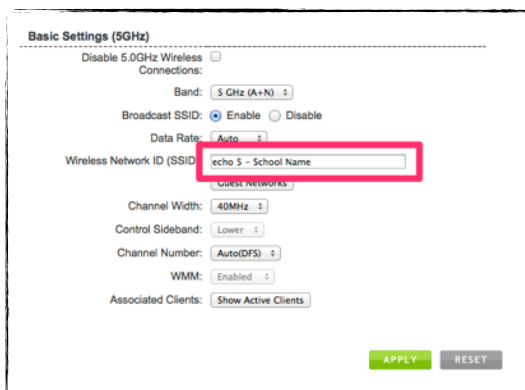
4. Change the SSID to **echo 5 - School Name** and press **APPLY**

5. Press **Reboot Later**   Reboot Now   Reboot Later

Smart Setup Wizard
1) Internet Connection
2) System Clock
3) Wireless Settings
4) Setup Summary
More Settings
5.0GHz Wi-Fi Settings
Basic Settings
Security Settings

Select a Wireless Network:
Main – echo 5 – School Name   APPLY   RESET

Encryption: WPA-Mixed
Authentication Mode: ○ Enterprise (RADIUS) ● Personal (Pre-Shared Key)
WPA Cipher Suite: ○ TKIP ● AES
WPA2 Cipher Suite: ○ TKIP ● AES
Pre-Shared Key Format: Passphrase
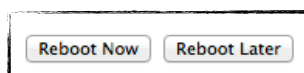Pre-Shared Key: ••••••••

6. Now click **Security Settings** on the left
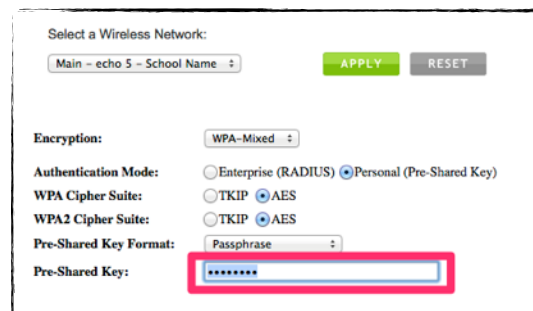
7. Change the **Pre-Shared Key** to **touchdown** and press **APPLY**

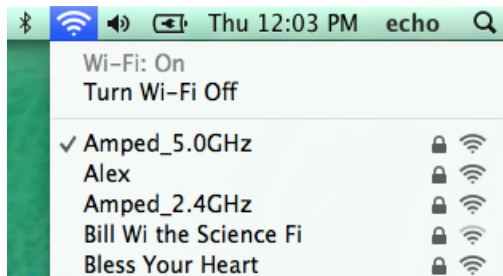**8.** Press **Reboot Later**   Reboot Now   Reboot Later

9. Repeat steps 3-8 for the 2.4GHz Wi-Fi Settings except you will change the SSID to **echo 2.4 - School Name** and you will Press **Reboot Now** on Step 8
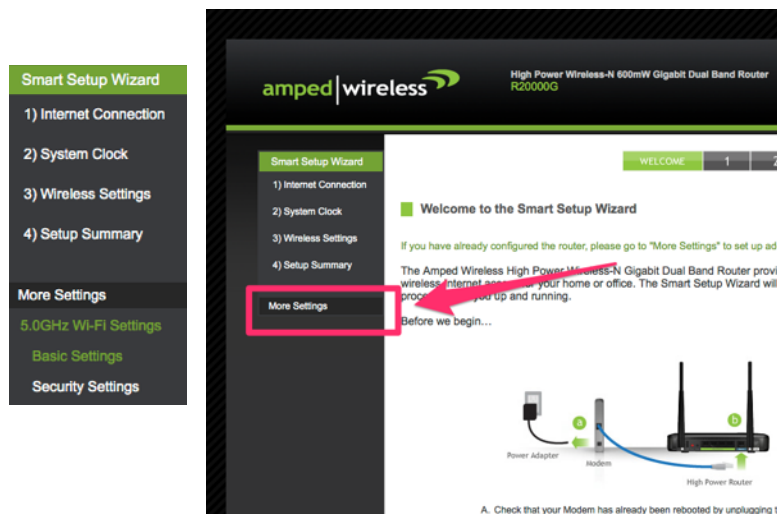
Router Password Guide

This guide will help you change your wireless network password.

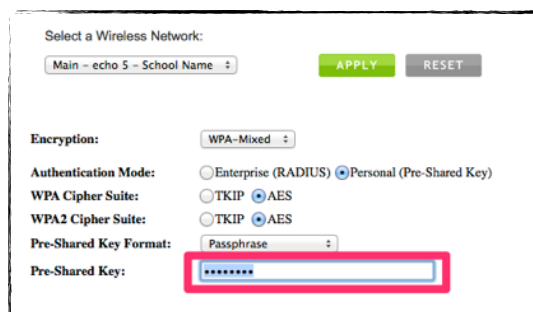**Your router is already programmed, this is just for reference.**

1. Power on the router and connect to the WiFi network **echo 5 - School Name**
(the password is included with your school license)

2. In your browser goto: http://192.168.3.1
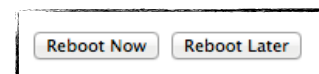(login: **admin** pass: **admin**)

3. On the left menu bar, click
More Settings then
5.0GHz WiFi Settings then
Security Settings

4. Change the **Pre-Shared Key** to
YOURPASSWORD and press **APPLY**

5. Press **Reboot Later**

6. Repeat steps 3 and 4 for the **2.4GHz Wi-Fi Settings** and you will Press **Reboot Now** on Step 5