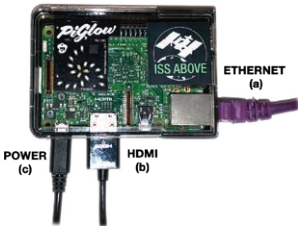


ISS-ABOVE: QUICKSTART GUIDE

Video guide available at: <http://issabove.com/quick-setup>

YOU WILL NEED:

- ISS-ABOVE with embedded WiFi capability
- Micro USB power supply
- 1 Ethernet cable
- 1 HDMI cable



STARTING YOUR ISS-ABOVE

1. Plug in the Ethernet Cable at (a) connecting the ISS-ABOVE to your Router
2. Plug an HDMI cable into your TV or monitor and into the ISS-ABOVE at (b). **Turn on your TV and set it to an available HDMI input prior to step 3 below** otherwise NOTHING will display on the TV and you will have to restart the ISS-ABOVE.
3. Plug the Micro USB power supply into power and into the ISS-ABOVE at (c). The start-up takes about 2 minutes. You should see test scrolling on your TV, then ISS-ABOVE info screens. The PiGlow will do a swirl of colors. You're on!
4. The following message will display at the bottom of the screen:

Location unconfigured go to [http://\(your ip address\)](http://(your ip address))

Make a note of that IP address. You will use it to set up your location.

NOTE: If you get the message **Location unconfigured connect to LAN**, you forgot to do Step 1. Plug your ISS-ABOVE into your router with an Ethernet Cable.

5. About 2 minutes after power up, open any browser on your computer, tablet or phone (make sure you're on the same network as your ISS-ABOVE). Type in:

[http://\(your ip address\)](http://(your ip address)) e.g. **<http://192.168.1.84>**

You will then see a first-time setup screen where you will set your location.

FIRST TIME SETUP

Congratulations - you are the new owner of an ISS-Above
Please set your location using the map below.
Enter your address (just your city/state/country will be sufficient) and click the search button
Also - please be sure to change the location name below to match your new location
Then click the UPDATE button below

Change your ISS-Above location:

The red marker shows your currently selected location. You can change the location by either;

1. Searching for a place name.
2. Dragging the marker or clicking on a new location on the map.

Enter place to search for

Search

6. Enter your address in **Enter place to search for** (City and State will suffice) and click **SEARCH**. Do NOT press the Enter/Return key

The map updates to your location.

Next, change your **Location Name** in the text box below the map. This text will be included in a Tweet message that your device will send to the **@Space_Station** every time it passes close to your location. DO NOT list your full address here... although you can be creative. It's YOUR message to the space station. Have fun with it! (note: you can disable the tweet in the settings page if you do not want your device to tweet).

Location Name (IMPORTANT - please change to match your new location as needed)	<input type="text" value="ISSAbove-HD-1363 in Pasadena/CA USA"/>
Latitude	<input type="text" value="34.1478"/> degrees
Longitude	<input type="text" value="-118.1445"/> degrees
Altitude	<input type="text" value="263"/> meters
Timezone	<input type="text" value="America/Los_Angeles"/>
<input type="button" value="Update"/>	

Complete the initial setup by clicking the **Update** button,

Your ISS-ABOVE will restart automatically with the new location settings. All the data on the info screens will be accurate for your location.

CONNECTING TO WIFI

IMPORTANT! You **must** start your ISS-ABOVE for the FIRST time using a wired ethernet connection to your router. See the beginning of this Quick-start Guide for how to do that.

Your ISS-ABOVE comes with WiFi capability.

1. Access the ISS-ABOVE's admin page for WiFi setup via your browser at:
[http://\(your ip address\)/wifiscan](http://(your ip address)/wifiscan)
2. Log in with the default username admin and password nasa
3. A list of available WiFi networks will be displayed (only 2.4Ghz networks are supported).
4. Click "connect" button next to the appropriate WiFi network
5. Enter the passphrase / PSK as appropriate for your WiFi
6. Reboot the device from this page

[http://\(your ip address\)/off](http://(your ip address)/off)

7. Now remove the Ethernet Cable right away. Shortly after it restarts you should be connected to WiFi (note a different IP address will now be displayed).

8. If your WiFi does not connect, you will see an error message:

Undefined IP address. Have you connected to your LAN?

Go back to step 1 and make sure that in step 5 you have typed in the password correctly.

OPTIONAL: ADJUSTING THE ON/OFF TIME FOR LIVE VIDEO

NASA's High Definition Earth Viewing Experiment (HDEV) STREAM VIEWS OF THE Earth in real time whenever the ISS is in sunlight.

NOTE: Video requires internet bandwidth – if you have a bandwidth cap or are otherwise charged extra for bandwidth please bear this in mind. Your ISS-ABOVE only displays the video feed for 1/2 of each ISS orbit (typically 46 minutes of each 92-minute orbit). The video feed may be unavailable from time to time. ISS-Above may switch to an alternative live video stream when this happens).

The video feed is initially configured to come on for 10 minutes and go off for 5. If you would prefer the live video to be on whenever it is available, go to:

[http://\(ip address\)/settings2](http://(ip address)/settings2)

Scroll to near the bottom of the page to the section **HDEV Live HD video for the ISS** and check this box.

Display HDEV video whenever ISS is in sunlight?

☐ Checked = Yes - launch HDEV video whenever ISS is in sunlight (meaning the settings below will be ignored)

Then click **SAVE SETTINGS** at the very bottom of the page.

POWER OFF

There is NO on/off switch on the ISS-ABOVE. While you can pull the power, it's not recommended as it can corrupt the memory card containing the ISS-Above code.

To power off, open your browser again and access this page:

[http://\(ip address\)/admin](http://(ip address)/admin)

Enter the username **admin** and password **nasa**

(NOTE: If your device is in a private home you may disable the need for an admin password)

Click on the menu link **Turn off your ISS-ABOVE** and the page below displays. Click the **Power Off** button.

Safely power off your ISS-Above

Click the button below to initiate the power off for your device

Please wait 30 seconds after clicking the button before removing power

Your ISS-ABOVE will begin powering off. You should wait at least 30 seconds before you unplug your device from the power.

There are also a host of additional configuration options available from the **/admin** menu for you to try.

REGISTRATION OF YOUR ISS-ABOVE/ GETTING SUPPORT

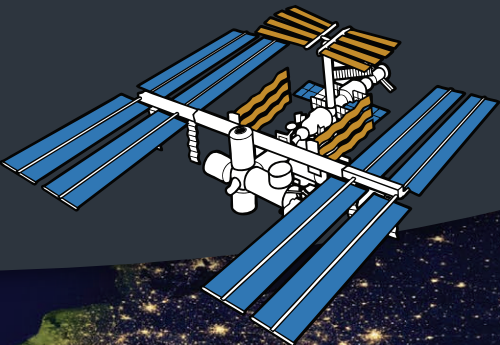
Your ISS-ABOVE will receive software updates automatically if it is powered on and connected to the Internet.

Please register your ISS-ABOVE at:

www.issabove.com/register

to receive information about new features contained in the automatic upgrades. **If you have ANY questions at all, please email us at support@issabove.com**

Using Your ISS-ABOVE



NEXT PASS

This screen shows details of the next pass, namely, when the ISS will be in your skies. Although the ISS is in your skies 5-8 times per day, it's not always visible. During daytime passes watch LIVE VIDEO of YOU from space!

ISS Above

Next Pass in:
00h 27m 32s

Start:
Dec 11 11:59:03

Duration:
10m 22s

Max Mag:
-2.5

Max Alt:
77.5°

Closest:
260 mi

Az at Transit:
SE (135°)

ISS Above - Next Visible Pass!

2017-12-14
17:41:14

Next Visible Pass in:
1 Days

Time: Fri Dec 15 6:15 PM
Appears: NW Disappears: SSE

Start:
Dec 15 18:15:32

Duration:
04m 20s

Max Mag:
-3.3

Max Alt:
70.0°

Closest:
269 mi

Az at Transit:
SW (225°)

NEXT VISIBLE PASS

Mostly you will see the ISS around dawn and dusk, when its solar panels catch the sunlight, but the sky is not too bright. That's your time to run out and see it.

SKY MAP

You can see the path of the ISS from when it rises, across your sky, to when it sets. If it's a VISIBLE pass (see prior screen), you will be able to go outside and see it. The ISS orbits from West to East, so start looking for the rise in the Western half of the sky.

ISS Above

Next Pass in:
00h 28m 11s

Rise Time:
11:59:03

Direction:
SW (222°)

Set Time:
12:09:25

Direction:
NE (48°)

ISS Above

Next Pass in:
00h 28m 11s

Rise Time:
11:59:03

Direction:
SW (222°)

Set Time:
12:09:25

Direction:
NE (48°)

ORBIT MAP

This screen shows where the ISS is currently on the world map—along with the orbit track pass (from 30 minutes in the past to 1.5 hours in the future). Where the orbit line is yellow, the ISS is in sunlight; where it is blue, the ISS is in darkness. The red dot marks your position.

EXPEDITION CREW

Shows the crew currently on board the ISS. The crew usually spend six months on the station with new crew leaving and arriving every three months.

EXPEDITION 54 CREW

Crew (from left to right)

Joe Acaba
Flight Engineer - NASA

Mark Vande Hei
Flight Engineer - NASA

Alexander Misurkin
COMMANDER - Roscosmos

Anton Skreplov
Flight Engineer - Roscosmos

Scott Tingle
Flight Engineer - NASA

Norishige Kanai
Flight Engineer - JAXA

ISS-ABOVE NEWS

Inspiring Wonder for Human Spaceflight

ISS ABOVE

Jan 2, Tuesday
8:20 a.m.
ISS Expedition 54 In-Flight Interviews with WTTV-TV, Indianapolis and WFXT-TV, Boston with NASA Flight Engineer Scott Tingle

Jan 3, Wednesday
12:55 p.m.
ISS Expedition 54 In-Flight Interviews with KMSP-TV, Minneapolis and the Voice of America with NASA Flight Engineers Scott Tingle and Mark Vande Hei and Flight Engineer Norishige Kanai of the Japan Aerospace Exploration Agency

Jan 4, Thursday
11:30 a.m.
ISS Expedition 54 In-Flight Interview with the Boston Globe and Flight Engineer Scott Tingle of NASA

ISS-ABOVE NEWS

Shows upcoming live event coverage from the International Space Station on NASA TV

LED Notifications (PiGlow)



Count the colored flashes to tell you how long it is until the ISS next passes overhead.

The number of flashes tells you:

Flashing **RED**: the # of **hours** to go
Flashing **GREEN**: the # of **10 minute** intervals to go
Flashing **BLUE**: the number of **minutes** to go

Flashing **all different colors** the ISS is **ABOVE** you **RIGHT NOW!!**



Live Video from NASA's High Definition Earth Viewing Experiment (HDEV)

The ISS HDEV cameras provide stunning views of the earth **whenever the ISS is in sunlight**. As the ISS orbits the earth every 92 minutes, you will see live video for 46 minutes in every 92.

There are four cameras on the ISS—one faces in the direction the ISS is moving, one faces downwards and two face to the rear. You will be able to see parts of the ISS, specifically where the supply vehicles dock. You might even catch them arriving and leaving! You may also see the moon (it rises and sets very fast from an astronaut's point of view).

ISS-Above also displays the place name that is directly below the ISS in the bottom left of the screen. When the video feed is not available, the information screens will show until the live feed is available again. *Note that the live feed can sometimes be unavailable for a period of time.*

