School district guide to the ISS-ABOVE

What is it?

ISS-ABOVE is software that runs on a Raspberry Pi and tracks the position of the International Space Station and streams live video from the Earth facing cameras.

Students see?

- Information screens (similar to the ones in Mission Control at NASA Johnson): Orbits, speed, position, current crew
- When ISS is in daylight, live video of the Earth overlaid with location information
- On-demand pre-recorded videos
- List of upcoming broadcasts/astronaut interviews from the Space Station

Teachers use the ISS_ABOVE in geography, physics, astronomy and mathematics

- seeing oceans, land masses, weather patterns, sunrises and sunsets
- understanding orbital patterns of sattelites/orbital mechanics
- getting to know the astronauts currently in mission
- learning facts about the orbit, speed, position and how often the ISS is in your skies (including when it is visible)

We provide a teacher's guide to the ISS-ABOVE to explain all the information on the various screens.

Information Displays

Active Pass of ISS

Orbital path track

Next Pass of ISS

Current Crew

Live HD video via HDEV

How do I get ISS-ABOVE for my schools?

ISS-ABOVE comes in 3 formats:

- Fully assembled Raspberry Pi 3 with PiGlow LED, case, power cable (school provides HDMI cable and TV).

or for schools that lready have a Raspberry Pi:

- ISS-ABOVE code on an SD card
- ISS-ABOVE code download

All formats include a quick start, how to use and teacher's guides.

The ISS-ABOVE also has it's own web-based setup and management for configuring your location and other settings.

District Discounts Available

What teachers say...

"It's on a big screen on the wall in the library runing 7x24. Everyone loves it. The other day the ISS flew over Florida which students could make out on the video. It has been a huge success!"

"Have the ISS-Above streaming all the time allows our students to see real time images from the ISS. It teaches them geography by providing information where the ISS is located."

"It has helped make my students aware that the ISS is constantly orbiting and that there are student designed experiments aboard. It's a very worth- while device to install in every school."

"This is a great device for students to interact with on a daily basis to gain a better perspective as to as to who is on the ISS, where it is and what it is that they see from there. I have students that come in every day to see what things look like from space that particular day."

"I would say that this is a great device for students to interact with on a daily basis to gain a better perspective as to as to who is on the ISS, where it is and what it is that they see from there. I have students that come in every day to see what things look like from space that particular day."

"Using the ISS-Above to connect students to space science has added one more interest mechanism with which to hook their interest. I now have students tell me that "Mom has an app on her iPhone to find the ISS!" and "My dad and I saw the ISS fly over when we were in Mexico!" and "Can we see who is on board right now?" and "When is it flying over Tahoe next?" It also was an EASY way to hook kids into the special nature of Scott Kelly's experiences, and I see the same kinds of excitement about space that I remember feeling at their age about the Apollo missions... then as a young teacher about the shuttle missions."

"I think it is WONDERFUL. Many students aren't aware of the fact that we currently have people living in space. This has been a great way for me to introduce them to space."

"The ISS Above is an attention-grabber which often leads to more discussion about NASA biological research done by the Gilroy Lab."

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