Downlink frequencies: 2.422 GHz, 2.437 GHz
Contingency frequencies: 2.369 GHz, 2.395 GHz
DVB-S like signal (without PMT tables)
Symbol rates: 1.3 Ms/s, 2.0 Ms/s
FEC: ½
Video PID = 256
Audio PID = 257
Antennas: ARISS 41 and ARISS 43 patch antennas on the nadir of Columbus (RHC)
RF radiated power: approximately 10 W EIRP
Ham Video operates with a Canon XF-305 camera.
<table>
<thead>
<tr>
<th>Configuration</th>
<th>Frequency</th>
<th>Symbols rate</th>
<th>OUT FREQ</th>
<th>SYMBOLS RATE</th>
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<tr>
<td>1</td>
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<td>1.3</td>
<td>MAIN</td>
<td>1</td>
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<td>2.0</td>
<td>MAIN</td>
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<tr>
<td>3</td>
<td>2.395 GHz</td>
<td>1.3</td>
<td>B/U</td>
<td>1</td>
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<td>4</td>
<td>2.395 GHz</td>
<td>2.0</td>
<td>B/U</td>
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<tr>
<td>5</td>
<td>2.369 GHz</td>
<td>1.3</td>
<td>MAIN</td>
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</tr>
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<td>6</td>
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<tr>
<td>7</td>
<td>2.437 GHz</td>
<td>1.3</td>
<td>B/U</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>2.437 GHz</td>
<td>2.0</td>
<td>B/U</td>
<td>2</td>
</tr>
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</table>
What is needed to receive HamTV?
Ham Video

A DATV (digital amateur television) transmitter is installed in the Columbus module of the International Space Station (ISS). This transmitter is dubbed "Ham Video".

Main characteristics:
- Downlink frequencies: 2.422 GHz, 2.437 GHz
- Contingency frequencies: 2.369 GHz, 2.386 GHz
- DVD-S like signal (without PMT tables)
- Symbol rates: 1.3 Mbaud, 2.0 Mbaud
- FEC: ¾
- Video PID = 256
- Audio PID = 257
- Antennas: ARISS 41 and ARISS 43 patch antennas on the radome of Columbus
- RF radiated power: approximately 10 W EIRP

Ham Video operates with a Canon XF305 camera.

Commissioning

Commissioning of the Ham Video transmitter is scheduled April - March 2014. The commissioning is performed in four steps. All four frequencies and two symbol rates are checked with each of the two antennas. For each commissioning step, an astronaut transmits video and audio during a pass over the Matera ground station. The Matera VHF station is located at the Italian Space Agency’s ‘Centro di Geodessia Spaziale G. Colombi’ (CGS) near Matera, a small town in the south of Italy.

http://www.ariss-eu.org/
With AS5045 magnetic absolute encoder chip

HH-12 12 Bit 360° ABSOLUTE ROTARY ENCODER manufactured by DF1SR
A = 190.60: 112.40
C = 298.00: -24.30
TechnoTrend TT budget S2-1600
## Projet HAM VIDEO de l'AIRSS
Infré et discussions sur la station DATV installée sur l'ISS

<table>
<thead>
<tr>
<th>Forum</th>
<th>Topics</th>
<th>Posts</th>
<th>Last post</th>
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<tr>
<td>Projet HAM VIDEO de l'AIRSS</td>
<td>11</td>
<td>47</td>
<td>by G602F on Sun 6 Jul 2014 16:59</td>
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<td>by G5030 on Wed 28 May 2014 18:09</td>
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<td>20</td>
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<td>18</td>
<td>by admin on Sat 30 Jul 2013 11:02</td>
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</table>

## LES PROJETS (English Section)
Welcome to our streaming media portal for the [www.batc.org.uk](http://www.batc.org.uk).

If you have any material relating to ATV but you would like to share with the rest of the ATV community, please get in touch so that we can present it here. There is no charge to broadcast your video here, provided that it has some relevance to ATV, or Amateur Radio in general.

**Latest News:**

- **International Space Station**

  We have introduced a new channel "ISS" for media relating to the International Space Station and its ongoing relationship with radio enthusiasts worldwide.

- **Chat restrictions**

  Due to a few individuals and social behaviour and abuse of some of the chat facility’s features, we have been forced to severely restrict the character type and length you can enter into each chat post.

- **Chat expiry**

  Chat entries will now automatically expire (and be removed) after a set number of days - stream owners can set the number of days from their control panel, from 6 to 100 days.

If you would like a personal account, **FREE OF CHARGE**, to stream your material, all you have to do is be a member of the BATC. All members are able to upload their own personal shows as part of their members benefits. If you would like to join, rates start at £4 per year. [Click here to join now](http://www.batc.org.uk).
Main receiving stations F6DZP, IK1SLD, Kayser Italia (Livorno), Matera tracking station (Italian Space Agency), Casale Monferrato tracking station (IK1SLD)

Blank transmission reports also from VK6MJ, HB9DUG, JA1OGZ, YZ8YRR, M0DTS.
Mike Hopkins, KF5LJG  First ever Ham TV picture from ISS  8/4/2014
ISS commander Koichi Wakata KC5ZTA operated using the call sign OR4ISS
Live video as received on the final commissioning, Sunday April 13 at 18.23 UTC
HAM video Blank Transmission was activated again today Tuesday July 22 at 9:55 UTC, which is 11:55 CEST. It will be switched off again on 6-Aug so make the most of the chance to receive and test equipment.

The Ham Video transmitter will stay on in Configuration 4 till August 6:
- 2.395GHz
- 2.00 MSym/sec