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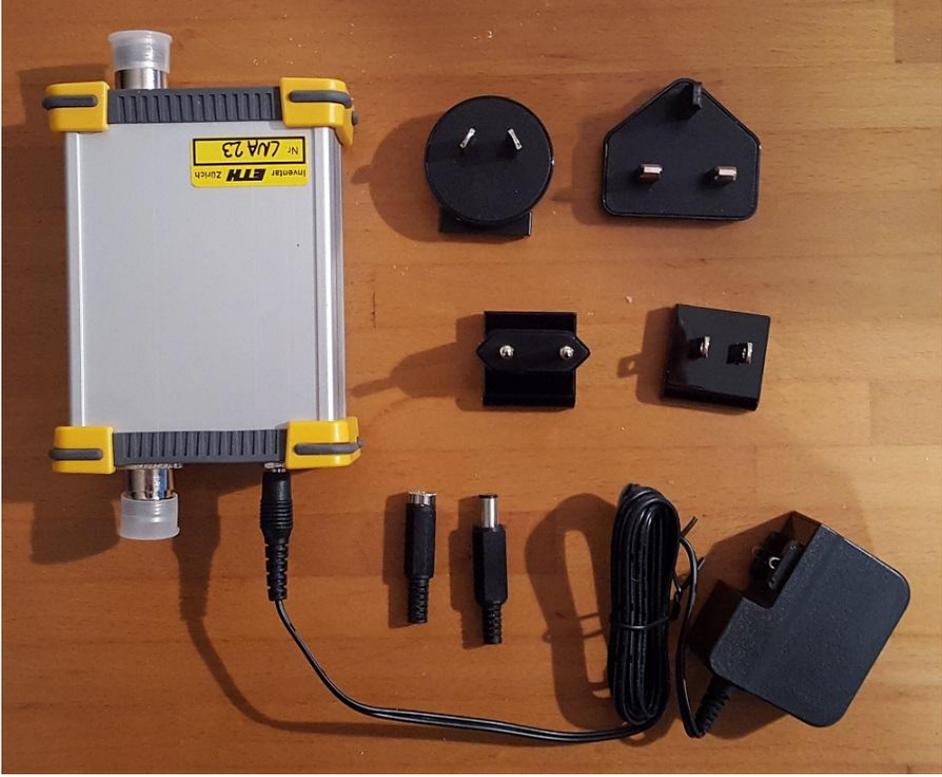
Pricelist CALLISTO 2020

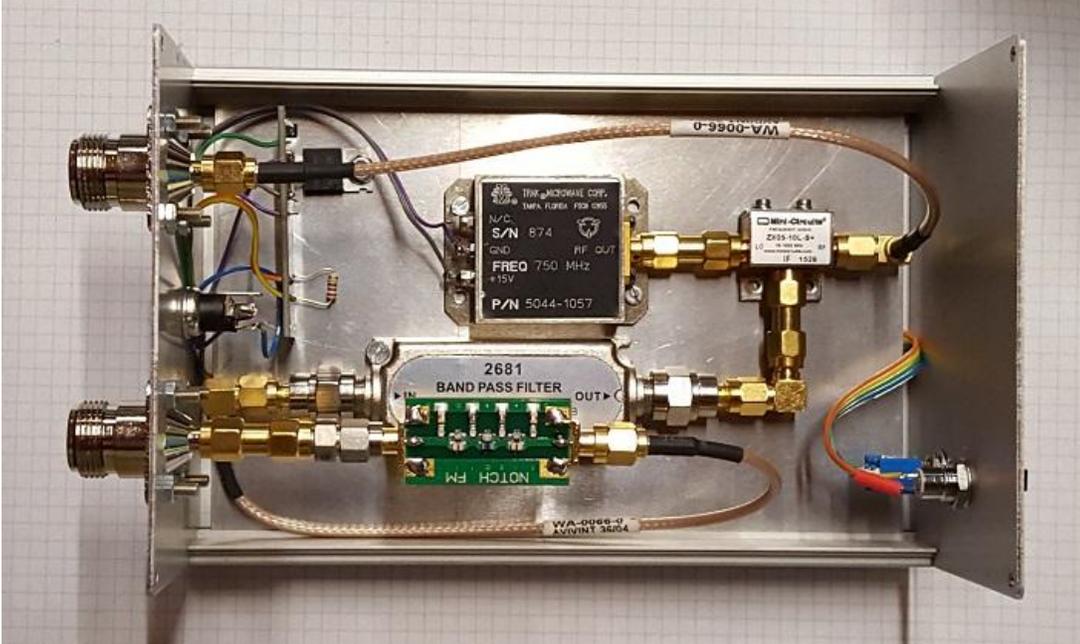
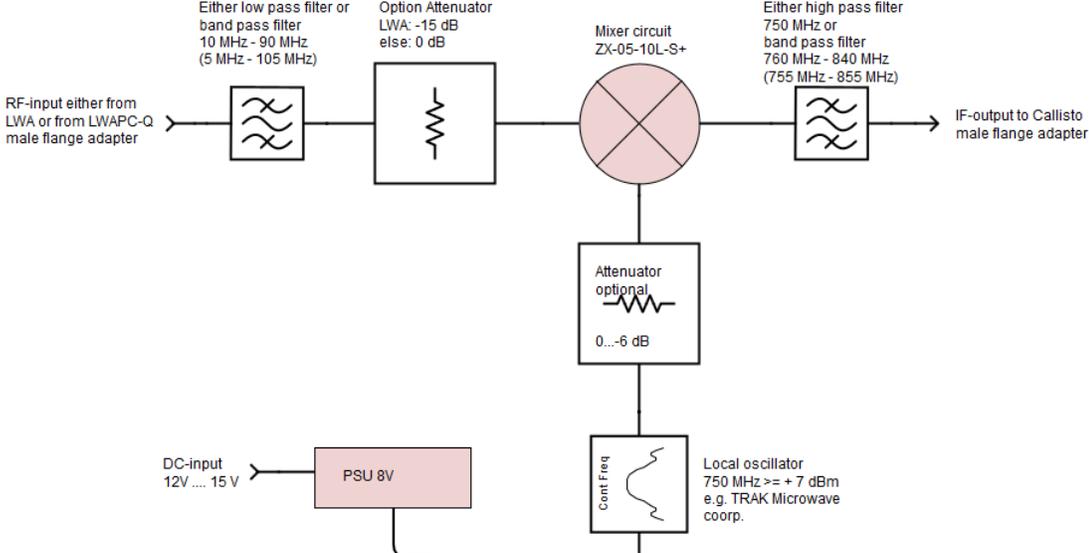
Frequency agile radio spectrometer based on Philips TV-tuner CD1316LS/IV
 A project, initiated by United Nations and NASA (IHY2007 and ISWI)

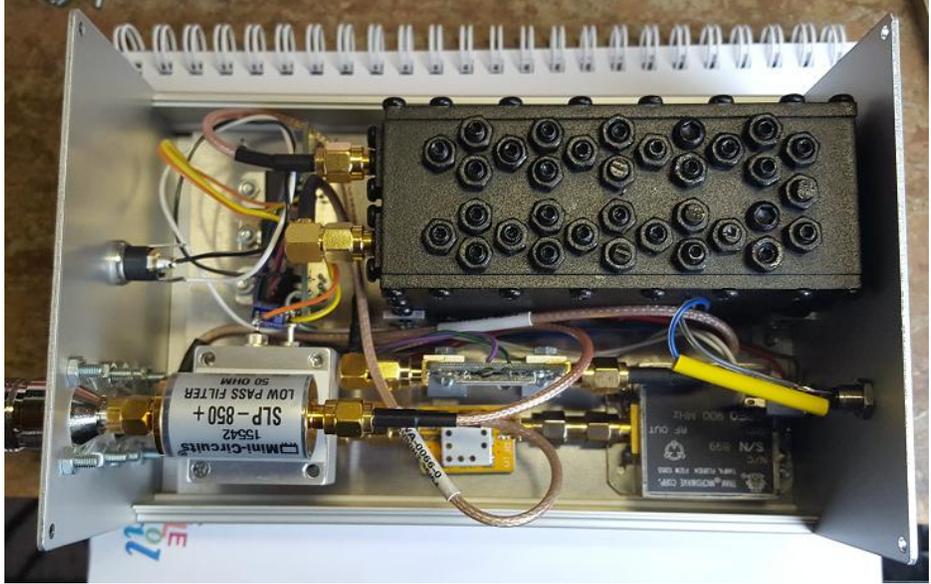
Pos	Basic Articles	Prize US\$
1	 <p>One Callisto frequency agile radio spectrometer in aluminum enclosure, tested in the laboratory. Qualification data here: http://www.e-callisto.org/Qualification/applidocs.htm Including RS-232 extension cable SUB-D9 1:1 ~1.5m Including RS-232/USB-adapter with CDR Including international power supply 12V with 4 mains-connectors Software and tools free of charge: http://www.e-callisto.org/Software/Callisto-Software.html</p> <p>You may also ask for used, but refurbished and tested instruments</p>	<p>500.00</p> <p>250.00</p>

Pos	Basic Articles	Prize US\$
2	 <p>This frontend is designed for outdoor operation, close to the antenna Frontend contains a low noise amplifier NF < 1dB, ~20 dB gain Including limiter at the antenna input for protection against static charges Including separate Bias-Tee to inject 12V dc Power supply via Bias-Tee and coax-cable, no extra dc-cable required Including international power supply 12V with 4 connectors Including N-adapter m/m and f/f to connect standard N-coax cables Size and connector of Bias-T may change, depending on manufacturer For ordering, tell mention if you want to observe < 1 GHz or above 1 GHz. We provide different versions of LNA</p>	440.00

Pos	Basic Articles	Prize US\$
3	 <p>Backside with two F-connectors for two satellite rotors, USB-connection to any PC and DC input 13V (slow) 18V (fast)</p>  <p>Interface to control up to two satellite-rotors based on DiSEqC-control sequences. Interface connected via a USB-cable to a notebook or PC. Python scripts will be provided, one for azimuth/elevation and another one for parallactic mode in hour-angle/declination. Rotor is powered and controlled via the same 75 ohm TV-coax cable. Controller will be delivered with USB-cable</p>	200.00

Pos	Basic Articles	Prize US\$
4	 <p>Low cost frontend containing low noise amplifier $NF < 1\text{dB}$, $\sim 20\text{ dB}$ gain without limiter at the antenna input This frontend is an indoor version which requires extra protection from rain, snow etc. Aluminum enclosure may differ, depending on supplier Including 2 extra dc-connectors to extend power supply cable DC-cable is NOT part of delivery because its length is not known. Including international power supply 12V with 4 connectors</p>	<p>150.00</p>

Pos	Basic Articles	Prize US\$
5	 <p>Passive up-converter to observe lower frequencies than the native frequency range of Callisto. Such a heterodyne converter is meant as a tool to observe solar bursts with a LWA. Depending on component availability, it may look slightly different inside.</p>  <p>Dual channel heterodyne up-converter on request.</p>	450.00

Pos	Basic Articles	Prize US\$
6	 <p>Heterodyne down-converter to observe frequencies above the native frequency range of Callisto. We can provide converter to observe 1000 MHz - 1600 MHz to observe solar radio bursts in L-band as well as GNSS signals, e.g. GPS and others. Converter also provides dc via a bias-Tee to feed the frontend (LNA). Depending on component availability, it may look slightly different inside.</p> <p>Others frequency range (S-band, C-band, X-band etc.) on request</p>	740.00

7



800.00

Passive dual channel heterodyne up-converter to observe frequencies below the native frequency range of Callisto. This unit is meant as up-converter for LWA (LHCP and RHCP) to observe 10 MHz - 78 MHz. Local oscillator is quartz controlled at 125 MHz. Output frequency range dedicated for Callisto: 135 - 203 MHz.

For LWA applications, both channels are frequency- and phase synchronous.

For single dipole applications we suggest another converter, as shown if position 5, with -or- without FM-notch filter.

Power consumption: 12 volts, 50 mA, 0.6 watts. Weight: 1.3 kg

Size: 257 mm x 170 mm x 55 mm

Prize includes a 12 volt power adapter with international connector set.

Depending on component availability, it may look slightly different inside.

Pos	Basic Articles	Prize US\$
9	Handling and shipping Swiss Post economy with tracking code for one single unit including power adapter. Final prize depends on country of delivery. Prize will be provided together with quotation.	50.00 ... 150.00

Options on request:

- Intensity calibration unit
- Remote support during installation and configuration
- Local support during installation and configuration
- Training data analysis in IDL or PYTHON

Delivery does include neither a PC, nor an antenna, nor mechanical mountings, nor a high frequency coaxial cable between frontend and Callisto nor a dc-cable in case of position 4. It is much cheaper to organize these parts locally.

Validity of quotation:

3 month due to currency fluctuations

Delivery time:

According to mutual agreement, but usually 4 weeks after payment.

Guarantee:

Three years after delivery for hardware and workmanship (except lightning strokes, water penetration and unprofessional handling)

Accepted payment methods:

1. Bank account (data will be supplied with invoice)
2. PayPal (name will be supplied with invoice)
3. Cash in any legal currency (but no virtual currency like Bitcoins)