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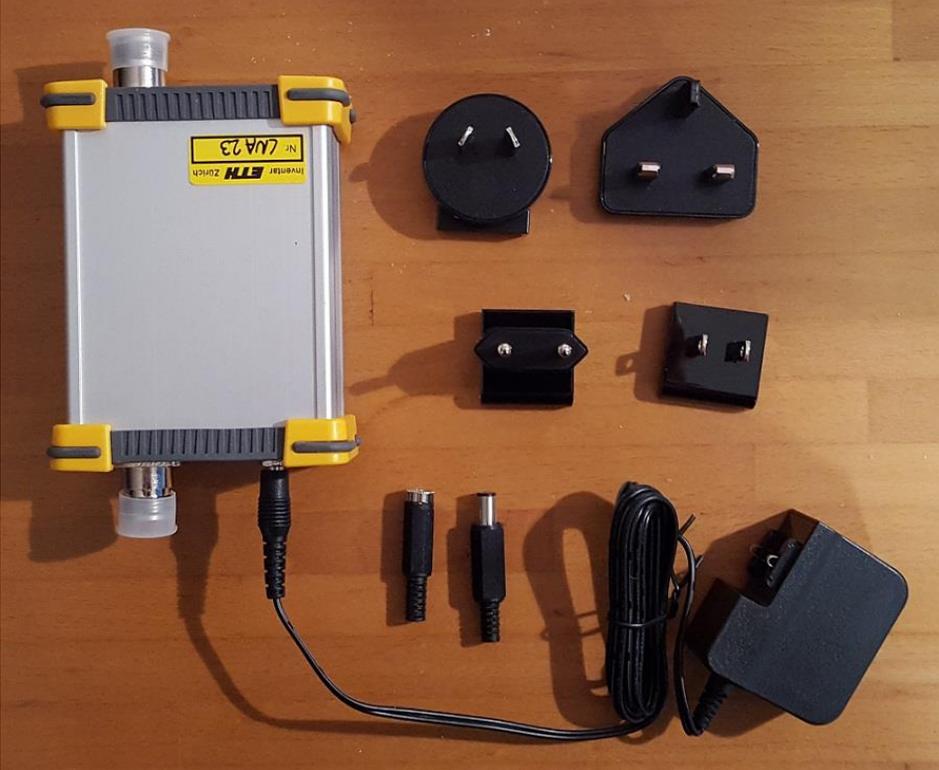
Pricelist CALLISTO 2021

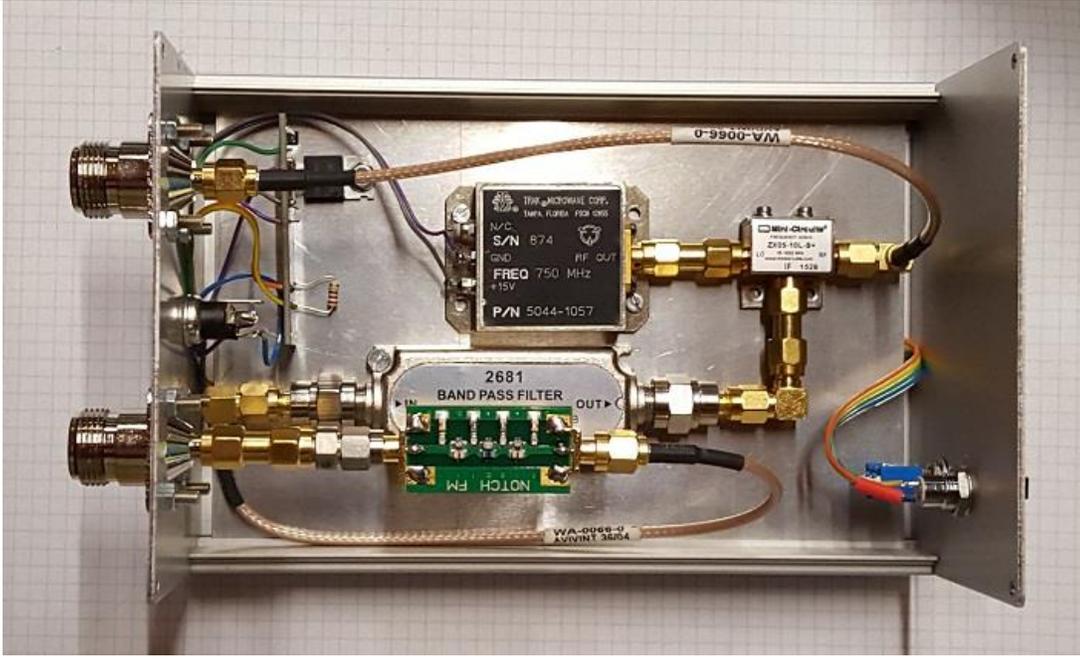
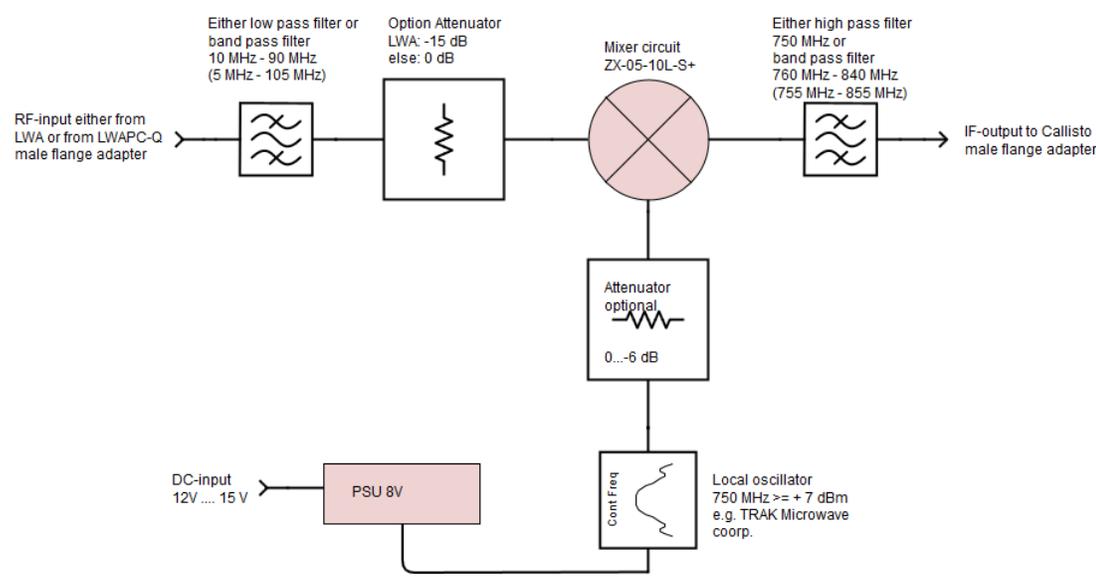
Frequency agile radio spectrometer based on Philips TV-tuner CD1316LS/IV
 A project, initiated by United Nations and NASA (IHY2007 and ISWI)

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-adaptor 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 $NF < 1\text{dB}$, $\sim 20\text{ dB}$ 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 Size and connector of Bias-T may change, depending on manufacturer For ordering, tell us if you want to observe $< 1\text{ GHz}$ or above 1 GHz. We provide different versions of LNA.</p>	450.00

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 Ω TV-coax cable. Controller will be delivered with USB-cable and an 18 volt power adapter with a set of international connectors.</p>	<p>200.00</p>

Pos	Basic Articles	Prize US\$
4	 <p>Low cost frontend containing low noise amplifier <math>NF < 1\text{ dB}</math>, $\sim 20\text{ dB}$ 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</math></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 up-converter is meant as a tool to observe solar bursts with a LWA. Depending on component availability, it may look slightly different inside. Also local oscillator frequency depends on LO-availability on the market.</p>  <p>Dual channel heterodyne up-converter on request, see position 7.</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. Also local oscillator and frequency depend on availability on the market. Others frequency ranges (S-band, C-band, X-band etc.) on request. </p>	750.00

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 in 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\$
8	Handling and shipping Swiss Post economy with tracking code. Prize depends on country of delivery, number and weight of components. Prize will be provided together with quotation.	50.00 ... 150.00

Options on request:

- Intensity calibration unit
- Remote support during installation and configuration via email, Skype, RDP, TV or ZOOM up to 2 hour per year for free. For more support 75\$/hour.
- Local support during installation, configuration, operating, maintenance and/or training in Callisto data analysis in Python. Ask for quotation. Usually we request economy air ticket, visa, local transport, accommodation and meals.

Instrument delivery does include neither a PC, nor an antenna, nor mechanical mountings, nor high frequency coaxial cables between frontend and Callisto nor a dc-cable in case of position 4. It is usually 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 if local regulations allow