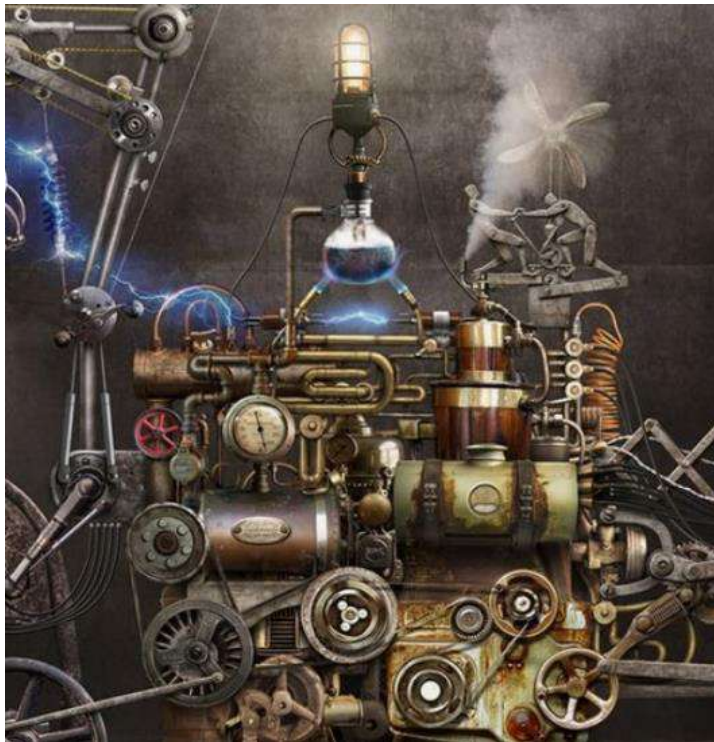


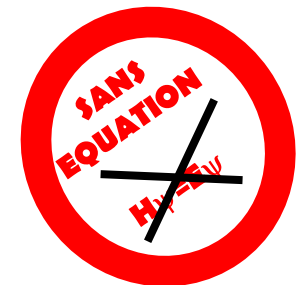
LES GRANDES OREILLES

N° 1

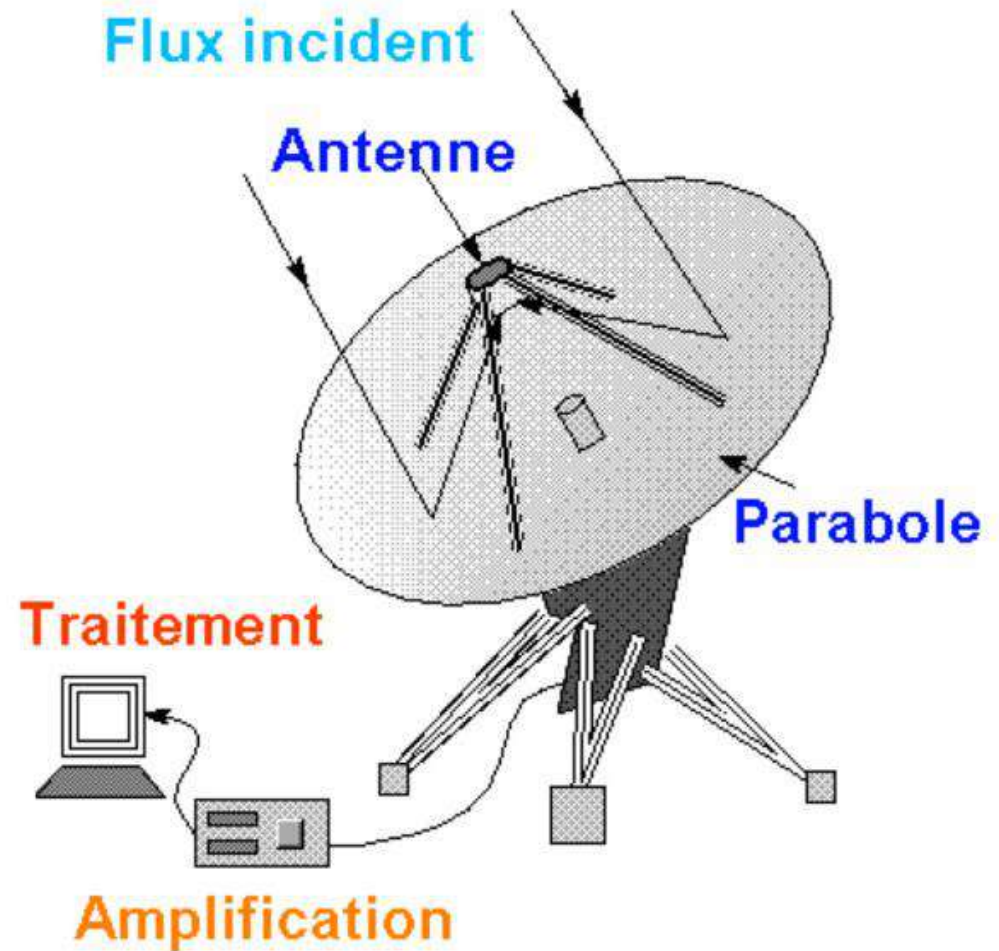
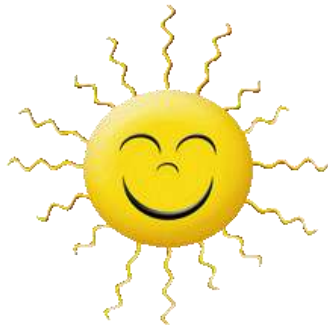
FAIS LE ! DO IT YOURSELF

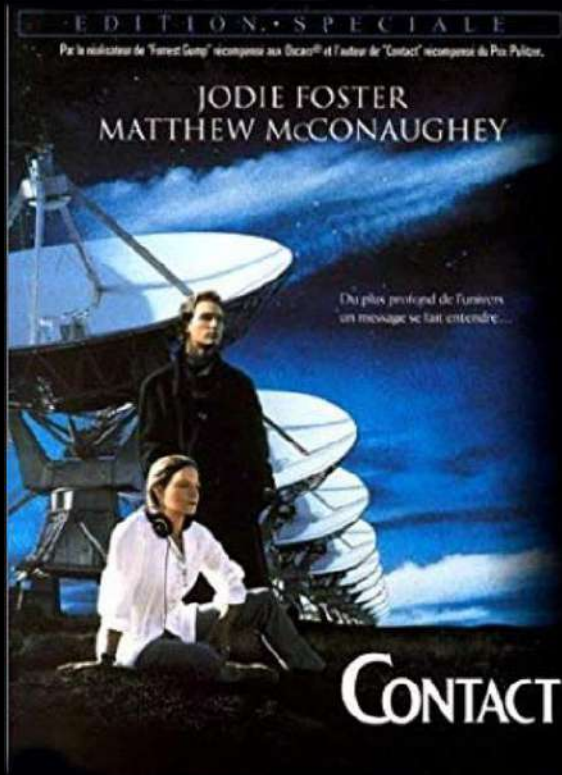


GARANTIE GO



RADIOTELESCOPE LE PLUS SIMPLE ?



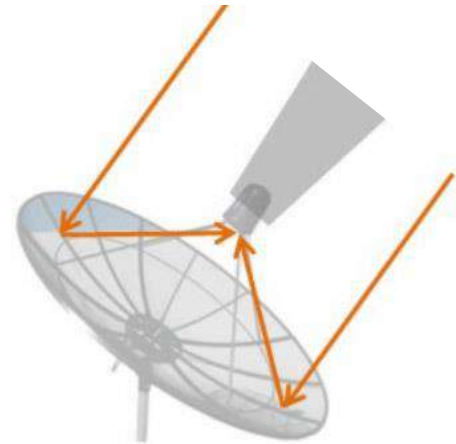
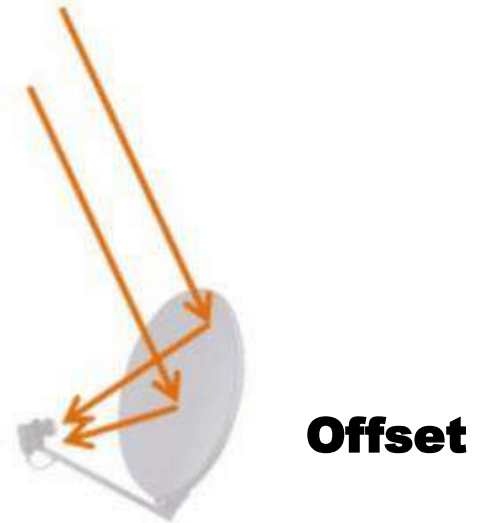


**Attention,
le mode *Jodie Foster* n'existe pas !**



RADIOTÉLESCOPE 1.0

PARABOLES DISPONIBLES



MÉRIDIENNE OU MOTORISATION ?

**RF
HAMDESIGN**
Microwave Equipment & Parts

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The Netherlands

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Fax: +31 (0) 847 187 776

www.rfhamdesign.com
E-mail: info@rfhamdesign.com

SPID Azimuth & Elevation antenna rotator

P/N: BIG-RAS/HR



MD-01 Controller / Option MD-02 Controller



PS-01 Power Supply / Option PS-02 Controller

The SPID BIG-RAS/HR XXL Heavy Duty Azimuth and Elevation Rotator system is an solution to Rotate in Azimuth and Elevation your Antenna, Dish antenna, Astronomy Tele scope, Camera, Light Box and many more which must be rotated in 2 axes, Resolution is 0.1 degree.

This rotor can be mount on a vertical mast and the elevation section can hold a ~50mm round pipe to place the

LNBF Low Noise Block Feedhorn

Tête universelle

Bande C de 3,5 à 4,2 GHz

Bande Ku 11,75 à 12,25 GHz

Bande L et S 2,3 à 2,7 GHz



LE RECEPTEUR

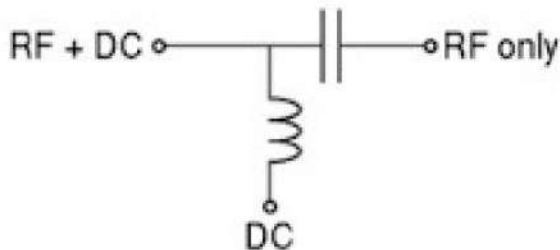
Le plus simple : SattFinder

vers LNB



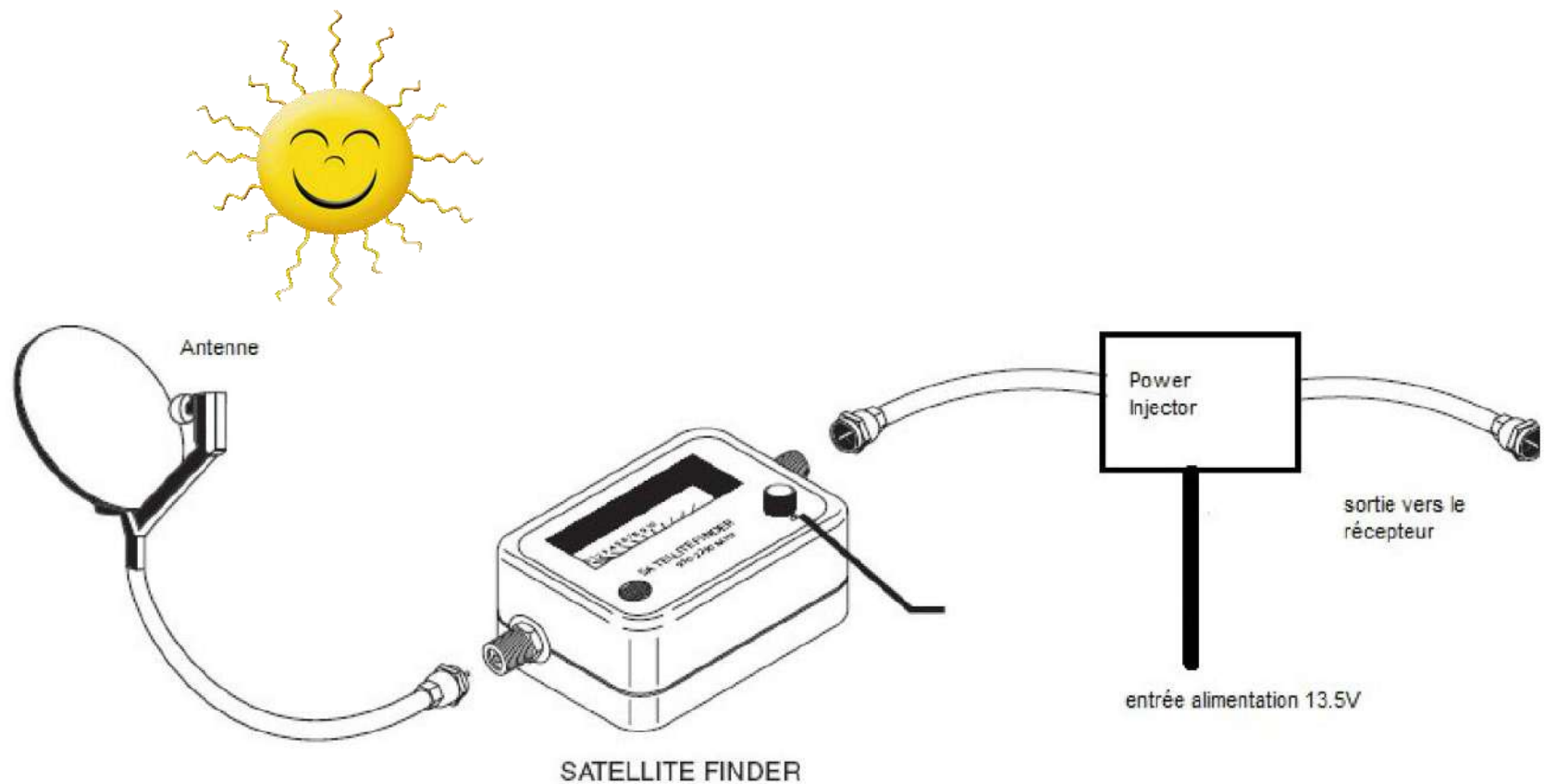
vers Démodulateur

Il est alimenté par le démodulateur, via le câble coaxial de liaison



Il est nécessaire de lui fournir une alimentation propre

LE RADIOTELESCOPE 1.0

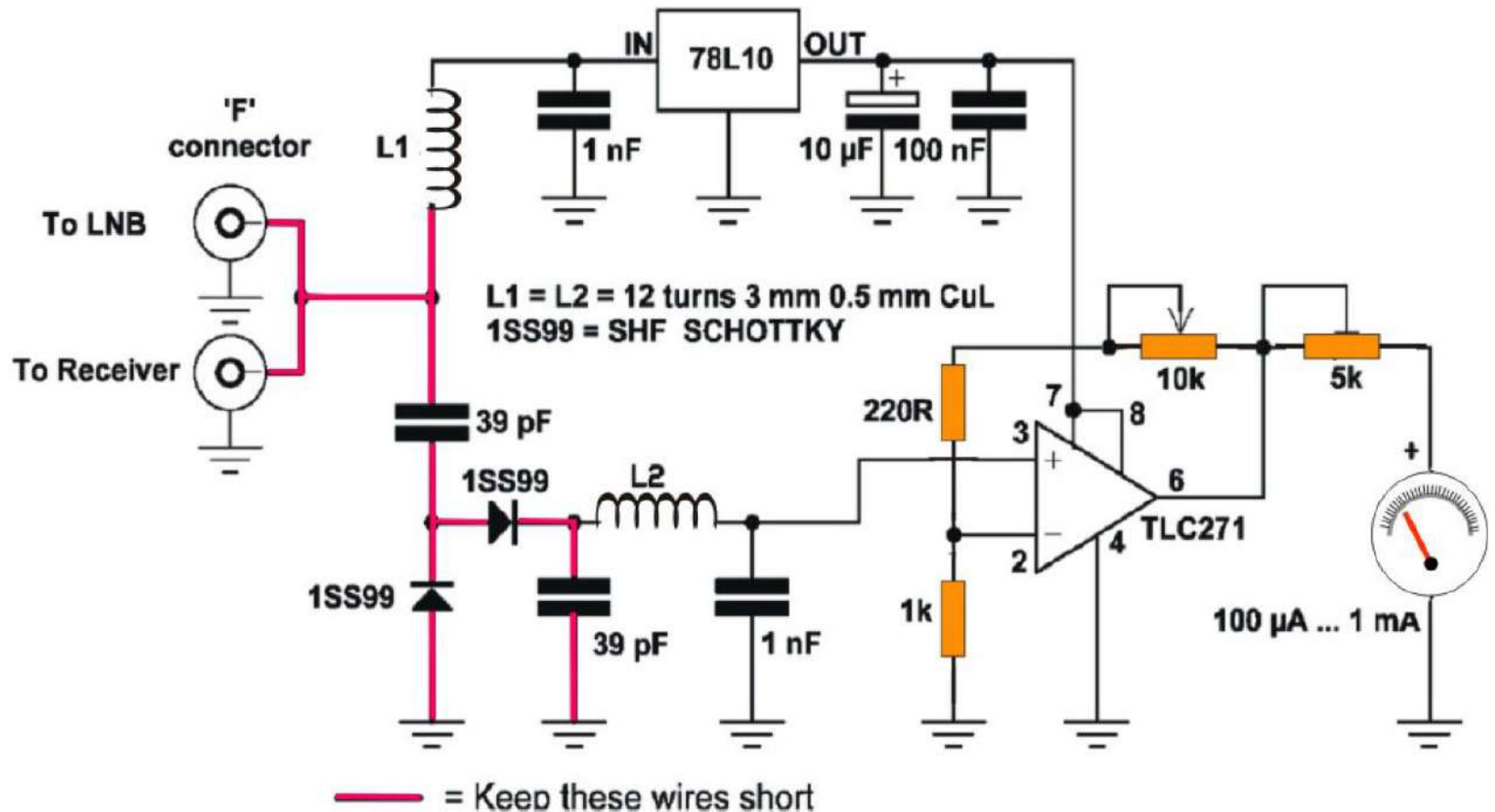


Lecture directe sur le SattFinder

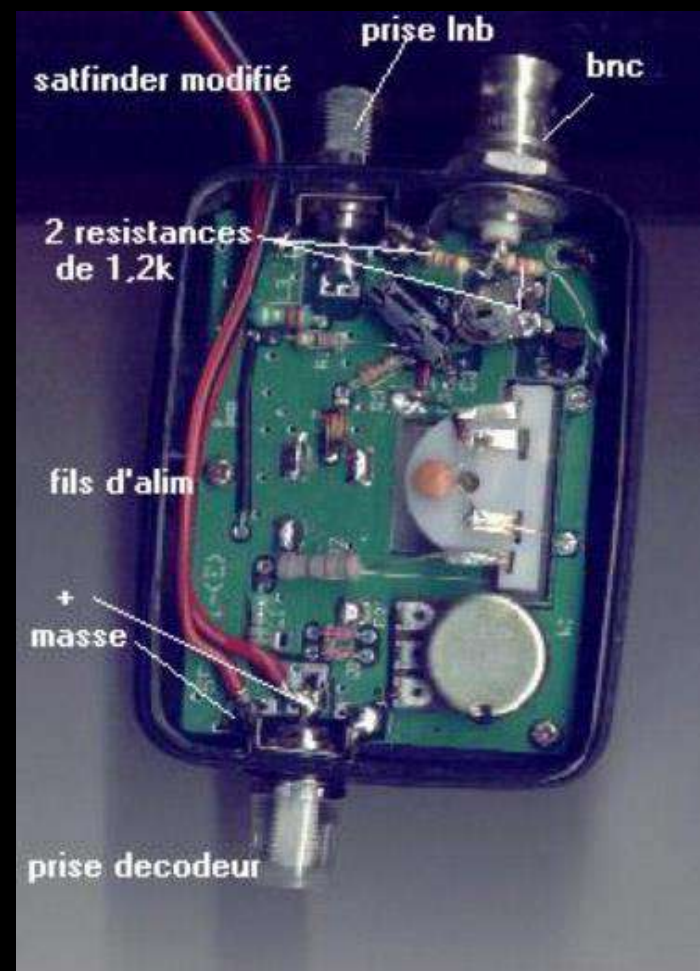
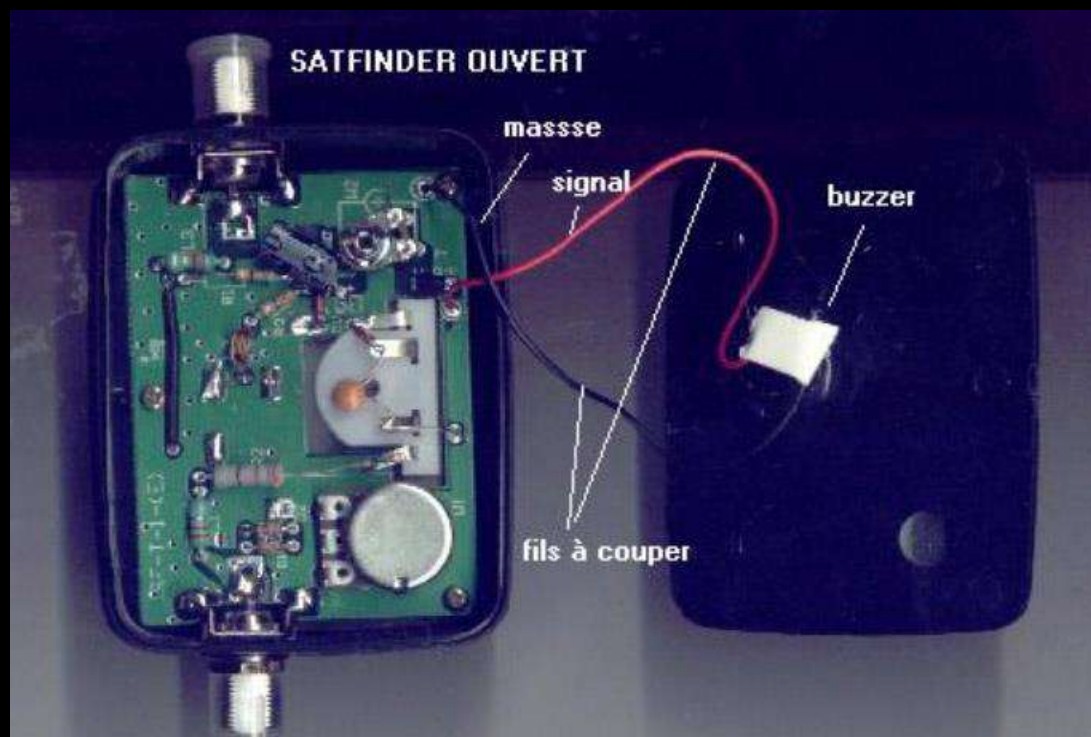


PLUS LOIN AVEC LE SATTFINDER !

Schéma typique d'un SattFinder



L'idée : récupérer le signal redressé et amplifié












LE RADIOTELESCOPE type LUCIE (Astrosurf)

**Le radiotélescope à
moins de 200 euros !**

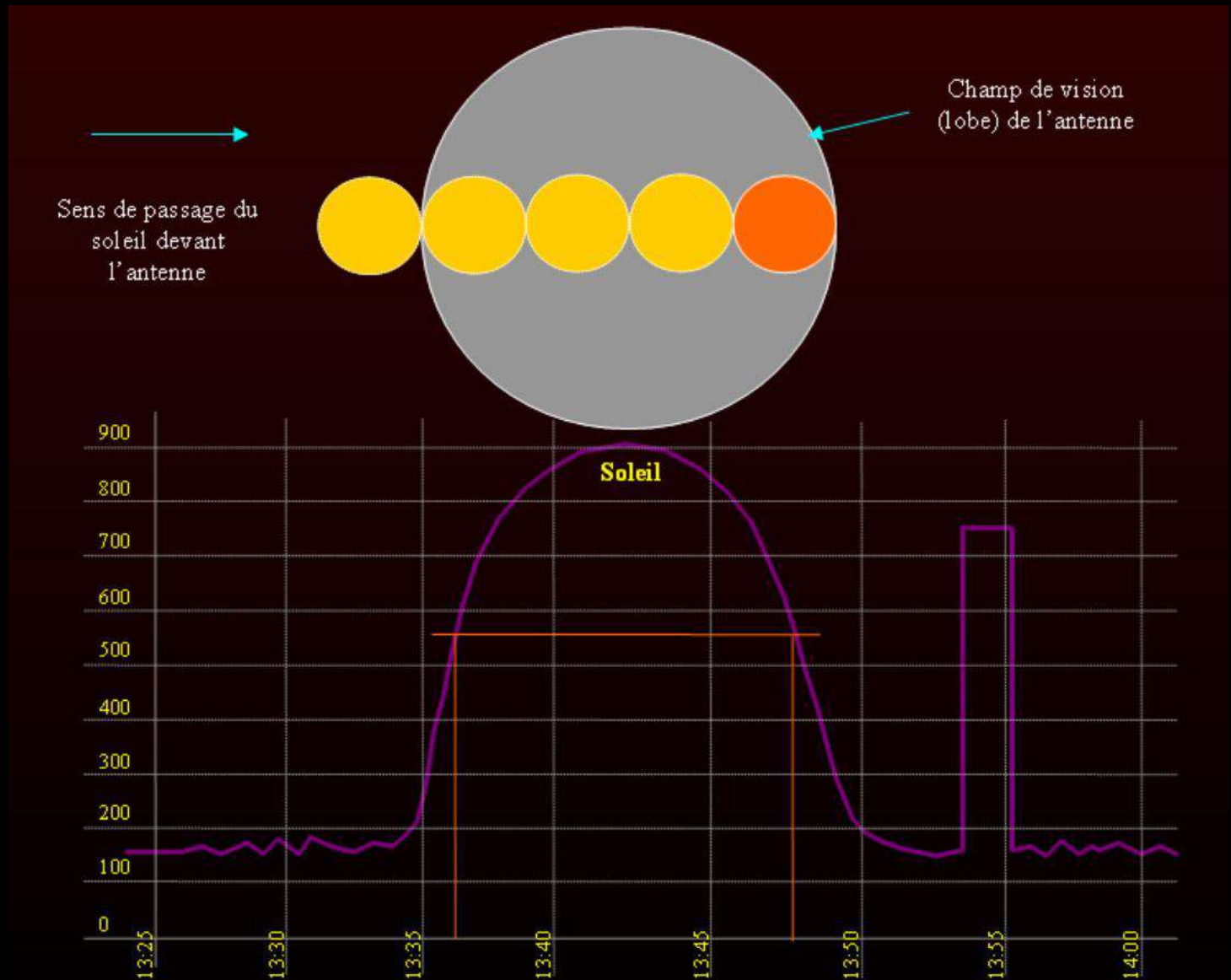


**Montage en méridienne
Transit du Soleil et de la Lune**

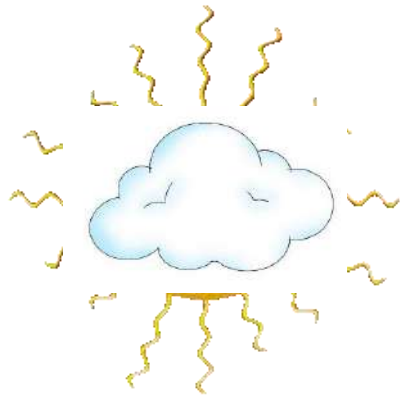
Nom du produit	Quantité	Prix à l'unité	Montant
 Pointeur de satellites SAT-Finder - Code produit: 941262-62 En stock	1 pièce(s)	€ 14,95* Eco-part: € 0,01	€ 14,95* Eco-part: € 0,01
 Parabole 80 cm en aluminium avec tête LNB Elap - Code produit: 085245-62 livrable à partir de 07.11.2012	1 pièce(s)	€ 59,95*	€ 59,95*
 Set de câblage pour antennes satellite et TNT 10 mètres - Code produit: 940726-62 En stock	1 pièce(s)	€ 6,99*	€ 6,99*
 Bloc alimentation à découpage tension continue FSP 1204 - Code produit: 512014-62 En stock	1 pièce(s)	€ 38,95* Eco-part: € 0,06	€ 38,95* Eco-part: € 0,06
 Set de fiches F - Code produit: 742686-62 En stock	1 emballage	€ 5,50*	€ 5,50*
Icône principale  Embase BNC - Code produit: 740632-62 En stock	1 pièce(s)	€ 1,50*	€ 1,50*
 Cordon de mesure universel - Code produit: 108533-62 En stock	1 pièce(s)	€ 7,89*	€ 7,89*
 Enregistreur de données USB à 4 canaux PC510 - Code produit: 121462-62 En stock	1 pièce(s)	€ 49,95* Eco-part: € 0,04	€ 49,95* Eco-part: € 0,04
 Câble sans halogène 1 x 0.5 mm² bleu LappKabel H05Z-K 90°C 1 x 0.5 bleu 4725021 - Code produit: 608516-62 livrable à partir de 29.10.2012	1 mètre	€ 0,40*	€ 0,40*
Icône principale			
Sous-total TTC		€ 186,08	
Supplément de frais d'envoi		€ 6,99	
Supplément d'Eco-part		€ 0,11	
Total TTC		€ 193,18	

* Prix TTC, Hors frais d'envoi -

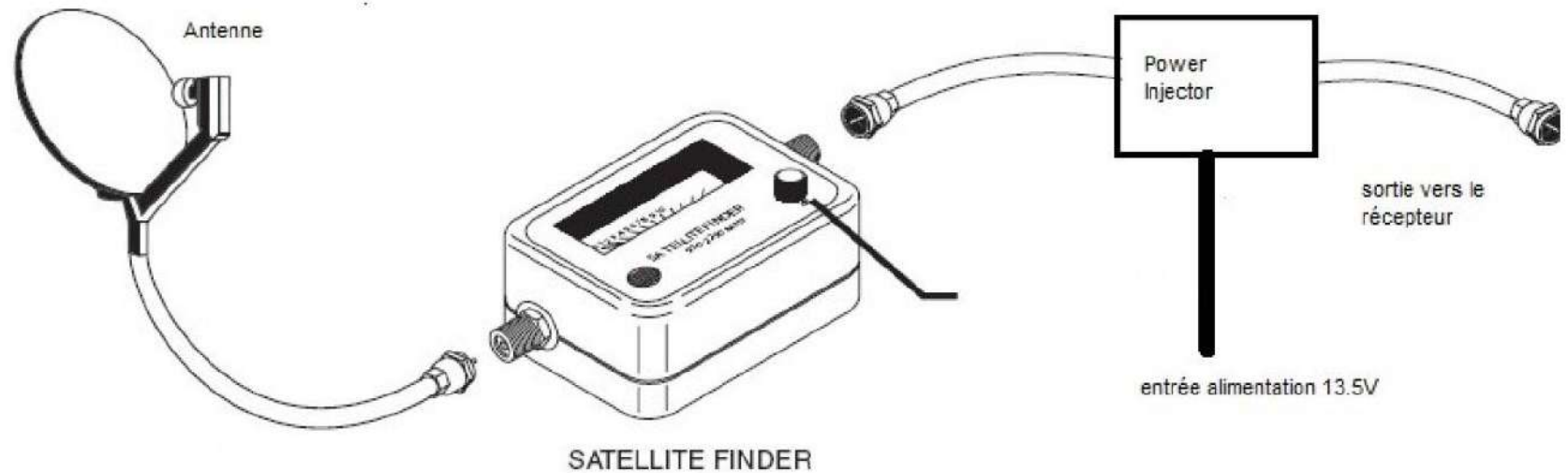
Exemple de transit du Soleil



Le Soleil : Une mauvaise bonne idée selon les conditions !

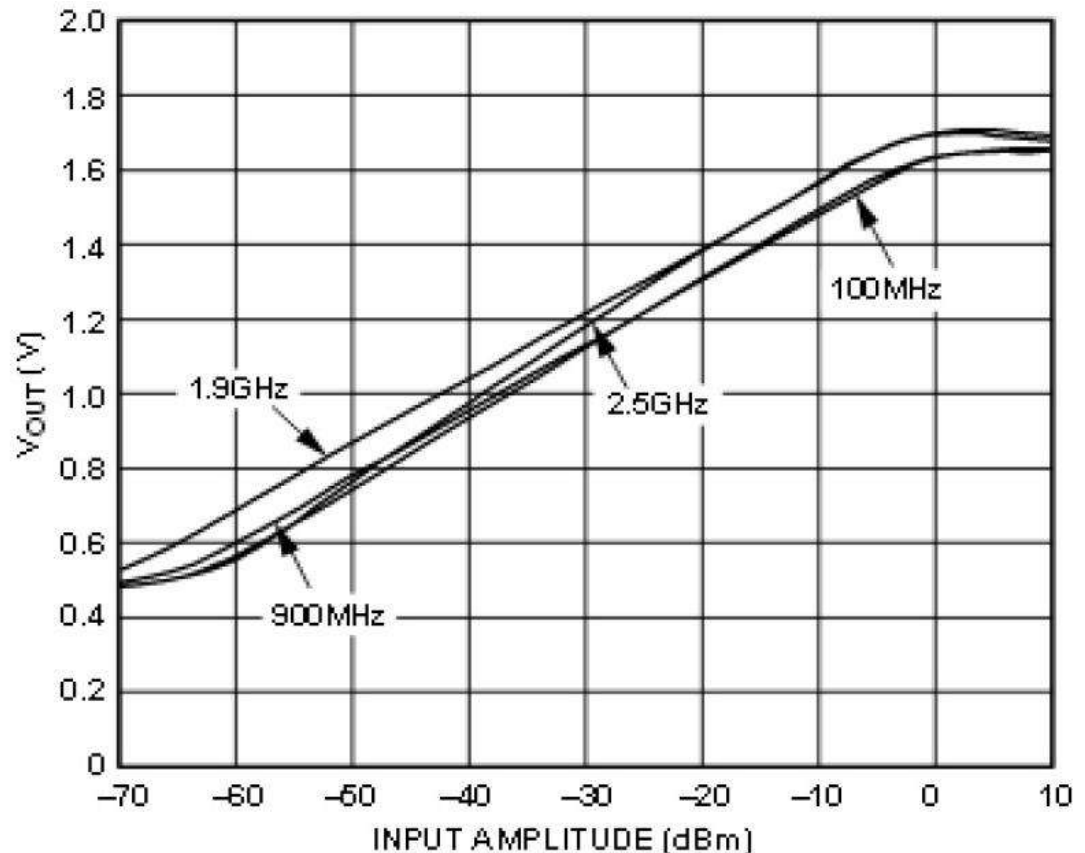
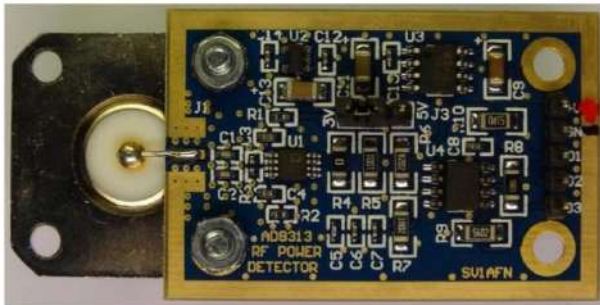


Echauffement du LNB !



AU-DELÀ DU SATTFINDER : LE RF POWER METER

Un récepteur qui donne une tension continue proportionnelle au signal reçu !



RADIOASTROLAB kit RAL 10

Les observation avec Lucie page x

RAL Our products for Radio Astronomi x

+

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RAL10KIT



RAL10AP



RAL10



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Graves.mp4

meteorDetectRT.mp4

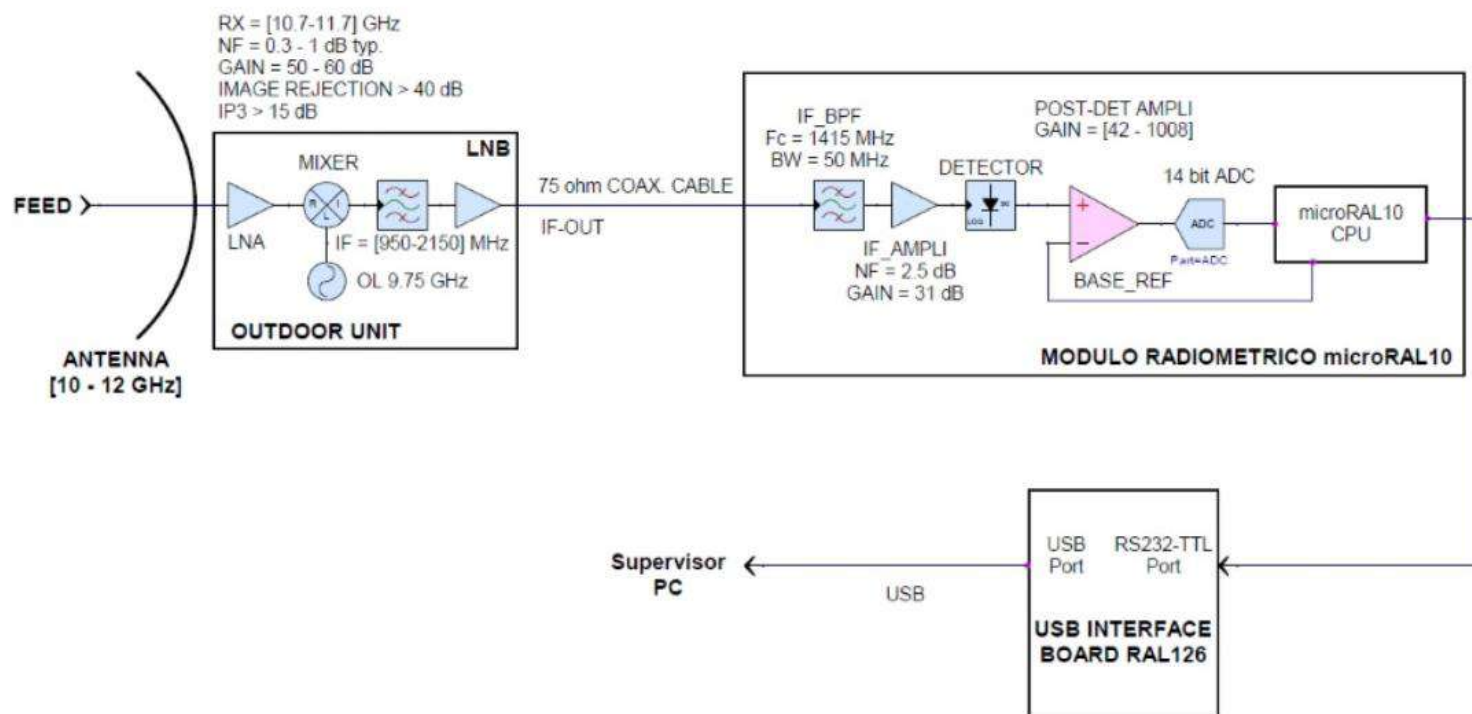
videoplayback.mp4

meteor_forward_sc....pdf

CarefulHappygol...we...

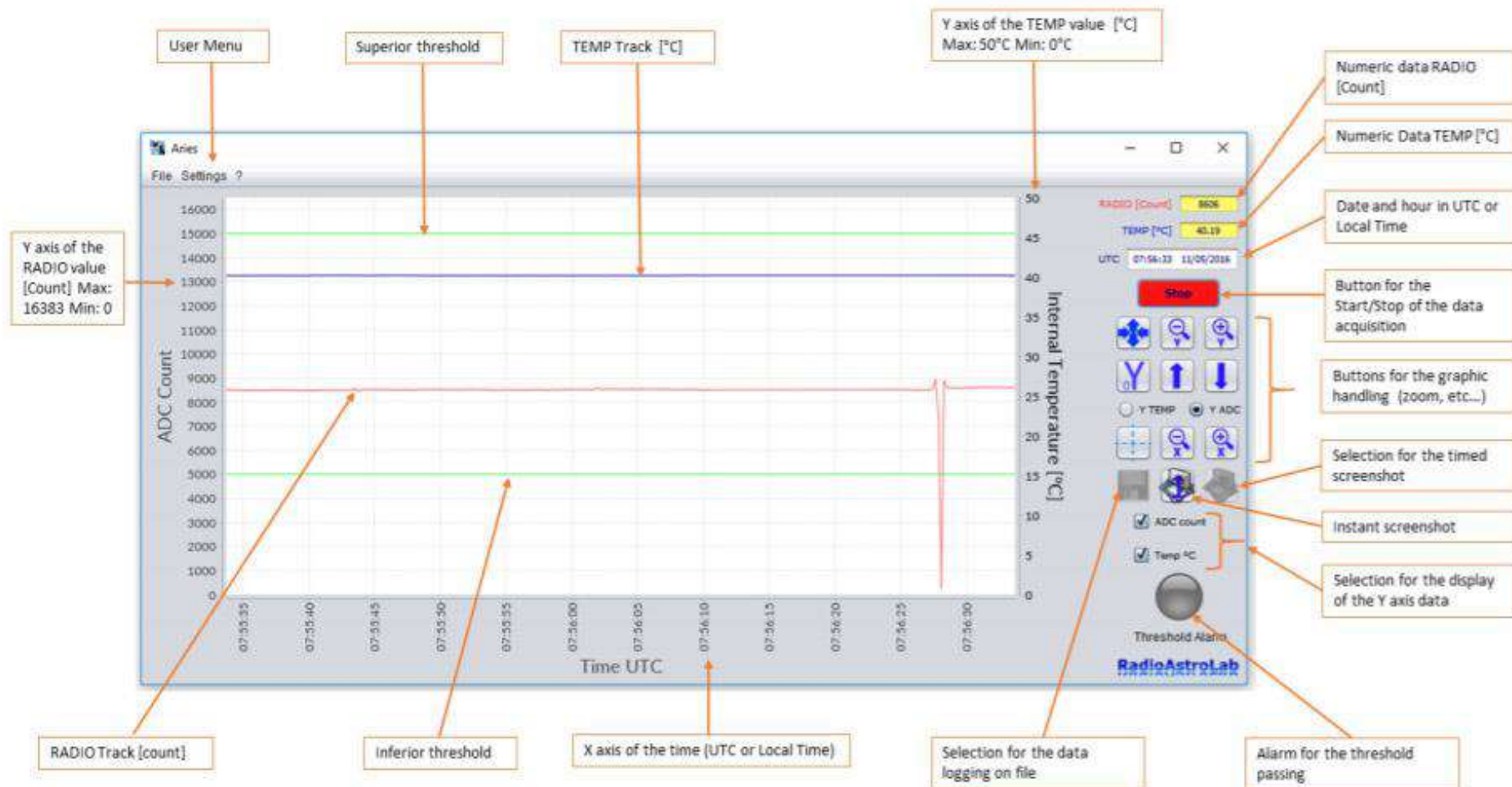
Tout afficher

Kit RAL 10



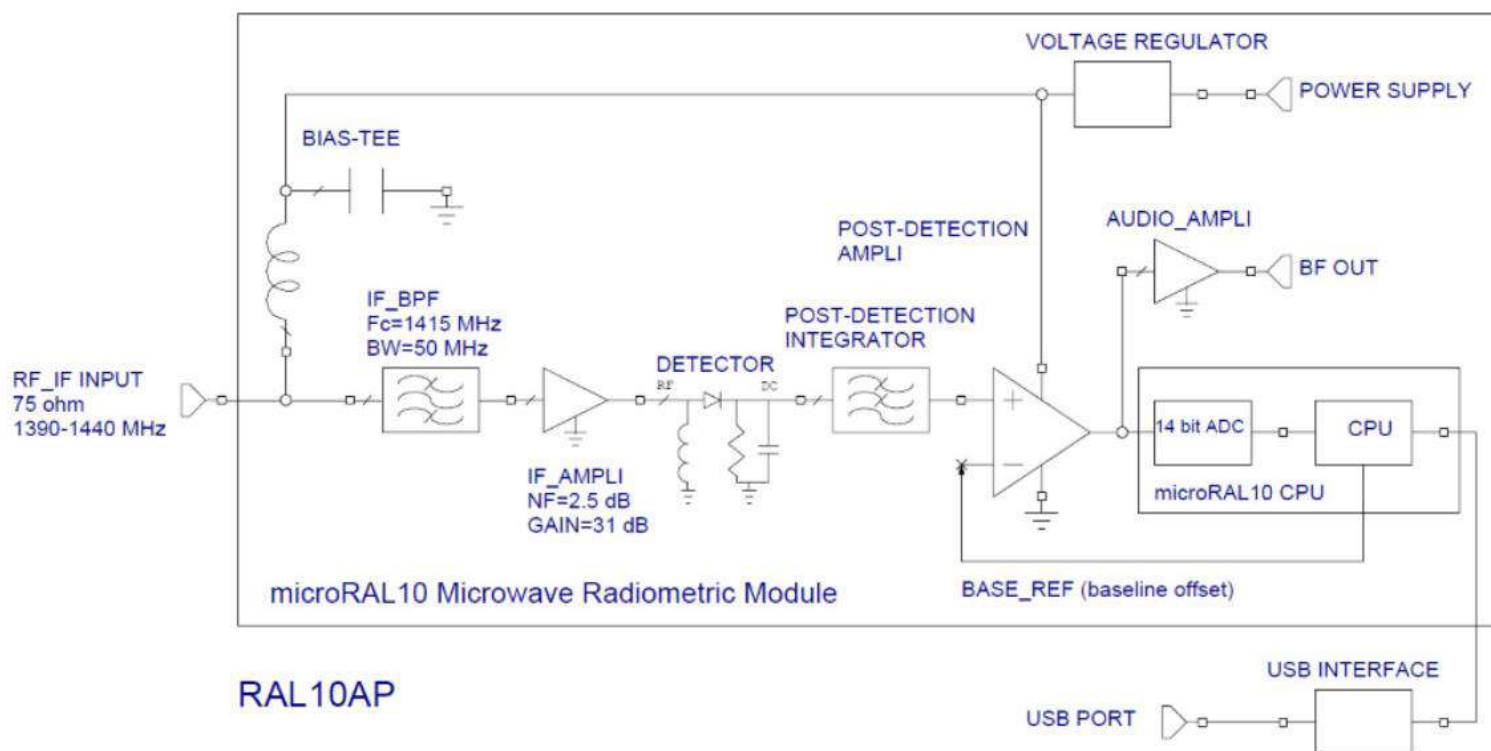
Kit RAL 10 190 euros HT

ARIES software



RAL 10AP

Total Power Microwave Radiometer

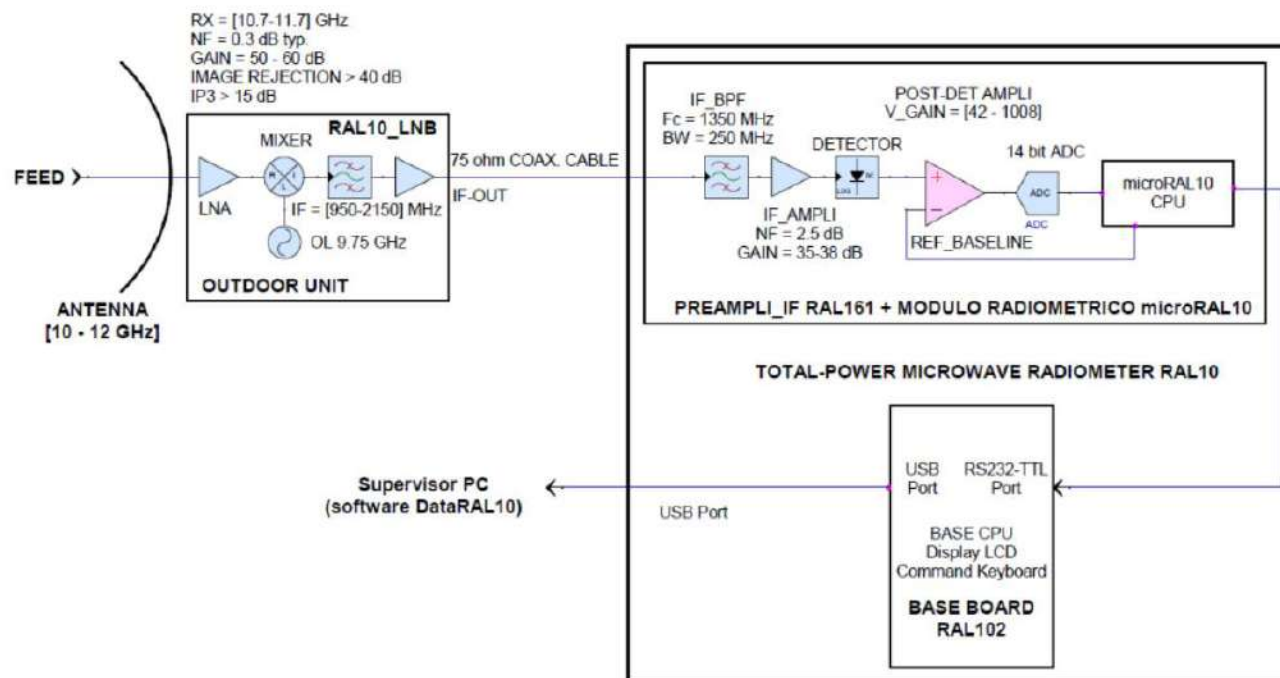


RAL10AP

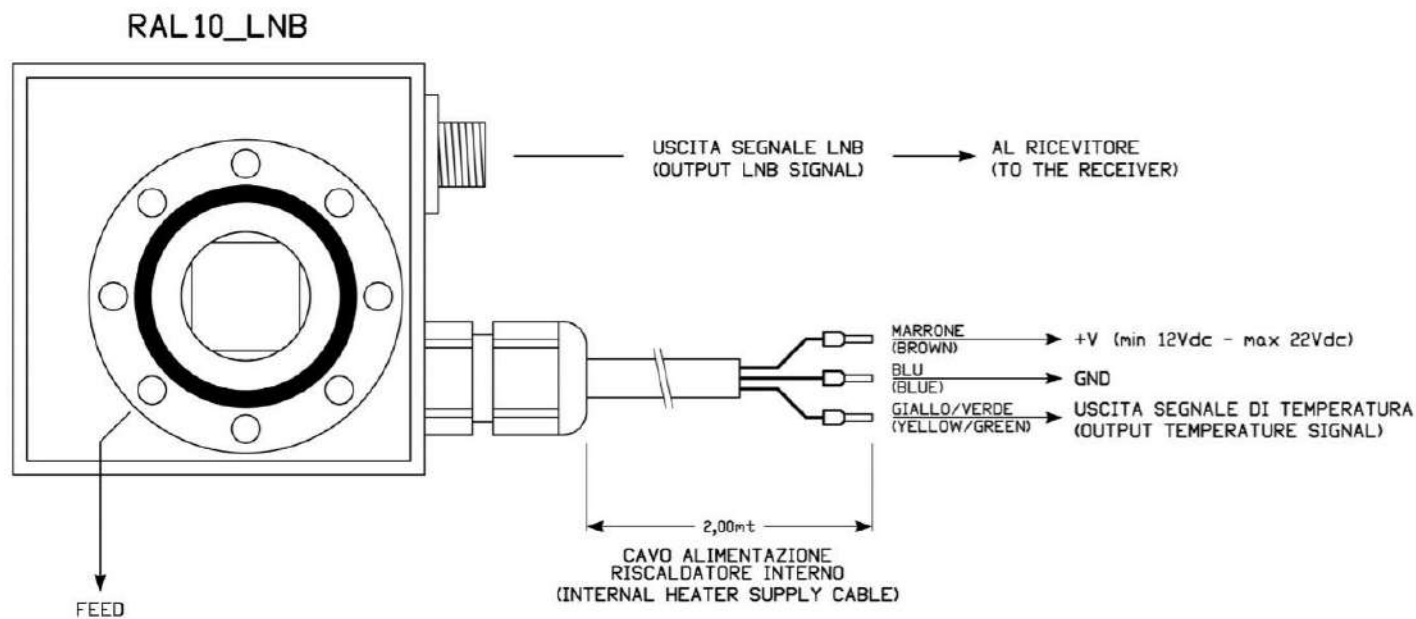
RAL 10AP 260 euros HT

RAL 10 Microwave Radiometer

Sensible et stable (régulé en température)



RAL 10 LNB régulé en température



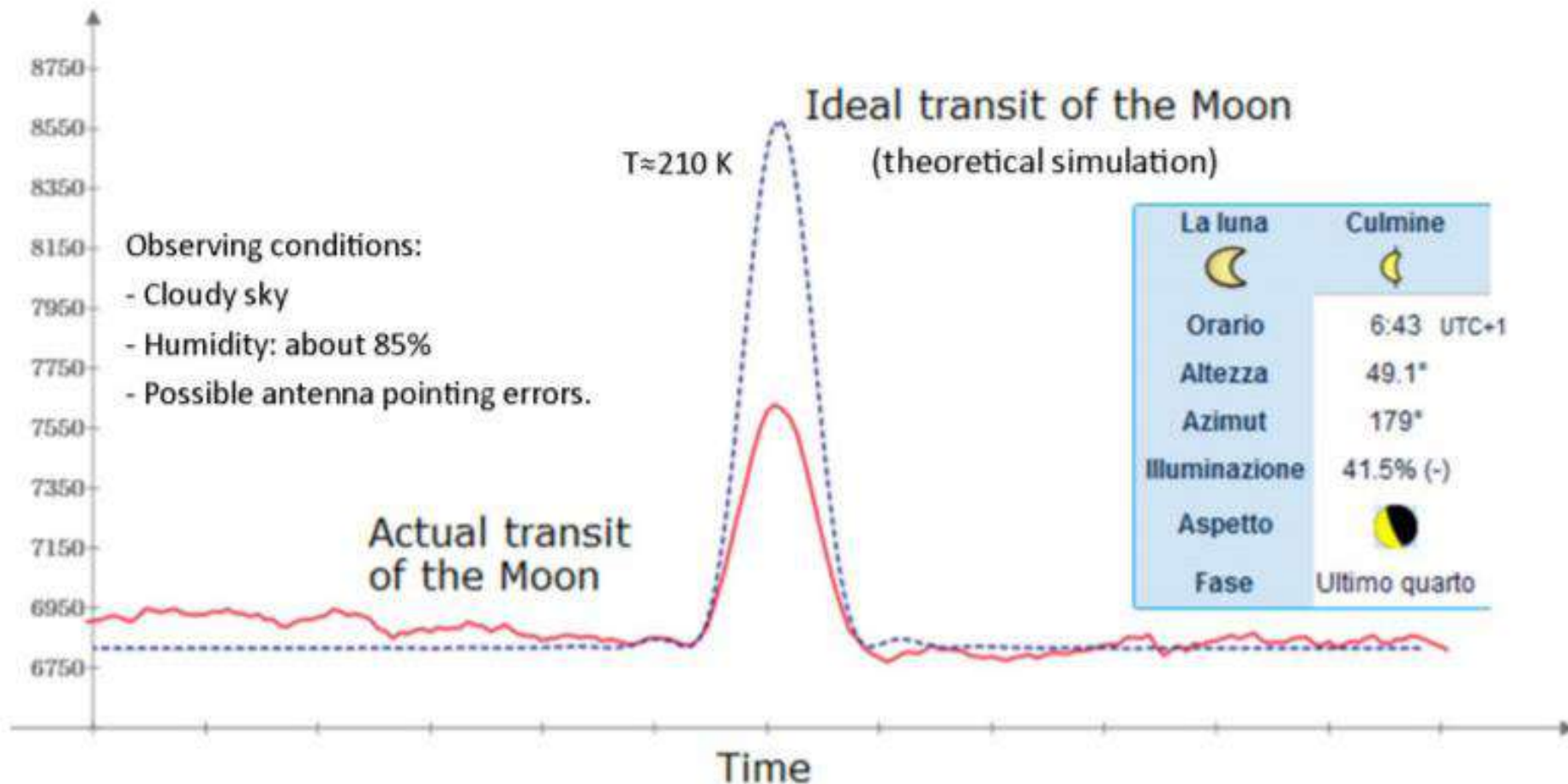
MISURA ANALOGICA DI TEMPERATURA (ANALOG MEASUREMENT OF THE TEMPERATURE)	$V_{out} = 0mV + 10.0mV/^{\circ}C$
CAMPO DI OPERATIVITA' DEL SENSORE DI TEMPERATURA INTERNO: (RANGE OF THE INTERNAL TEMPERATURE SENSOR)	$+2^{\circ}C \div +150^{\circ}C$



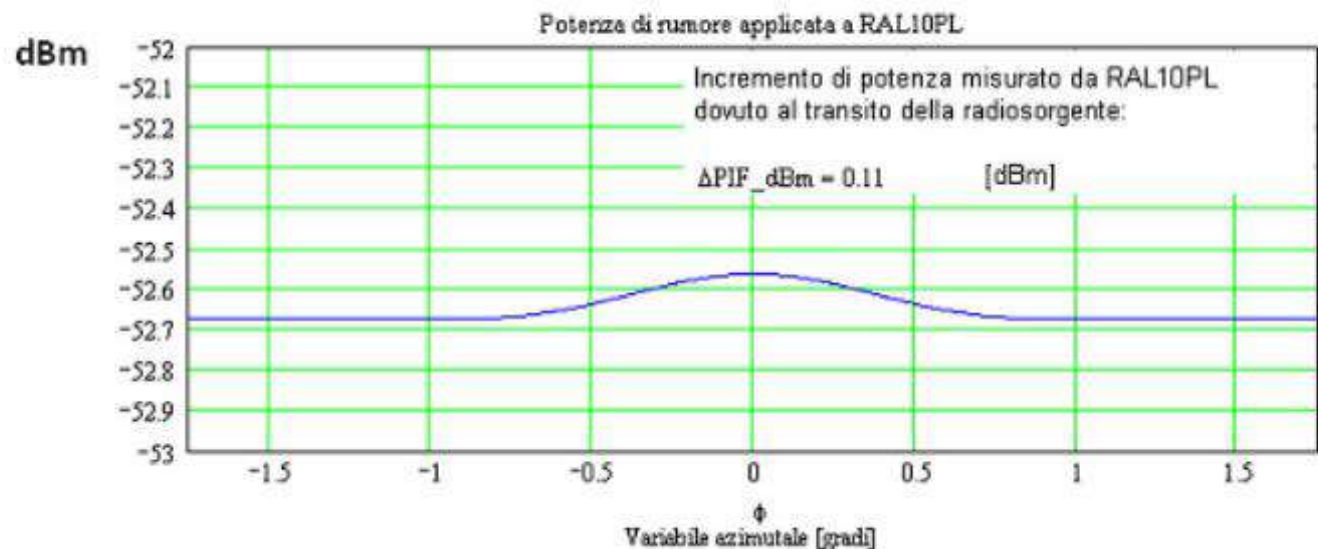
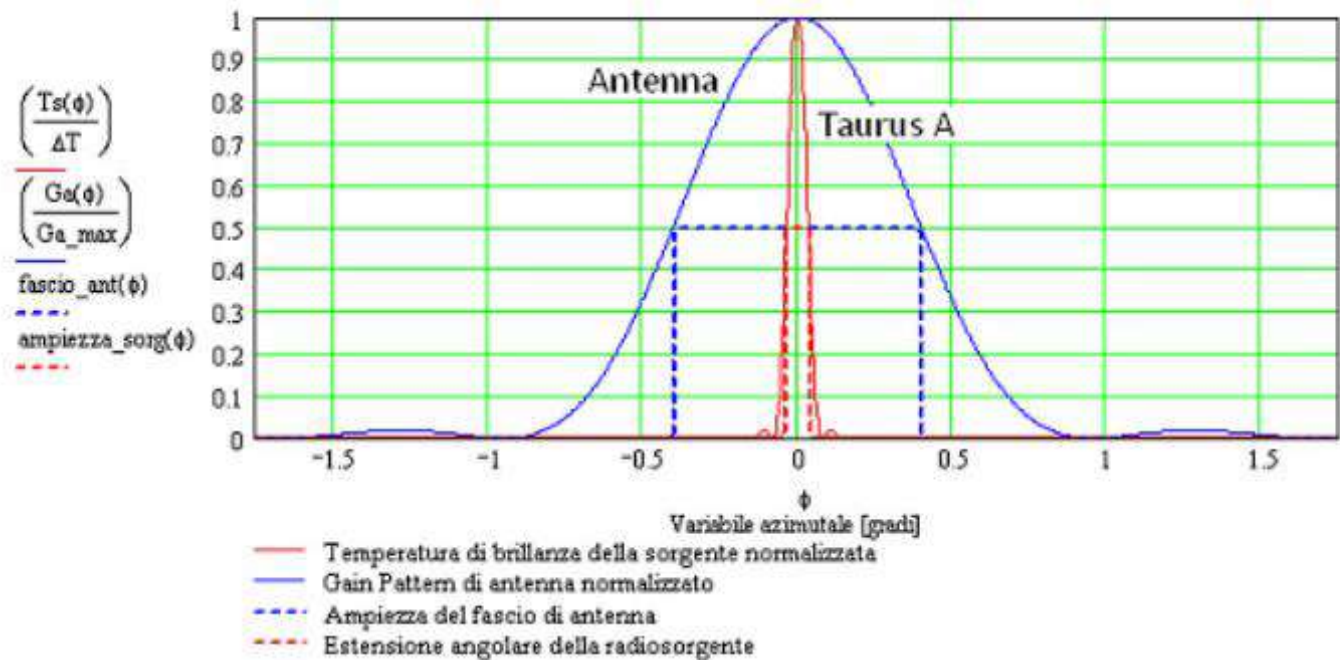
RAL 10 LNB 220 euros HT

Exemple de transit de la Lune

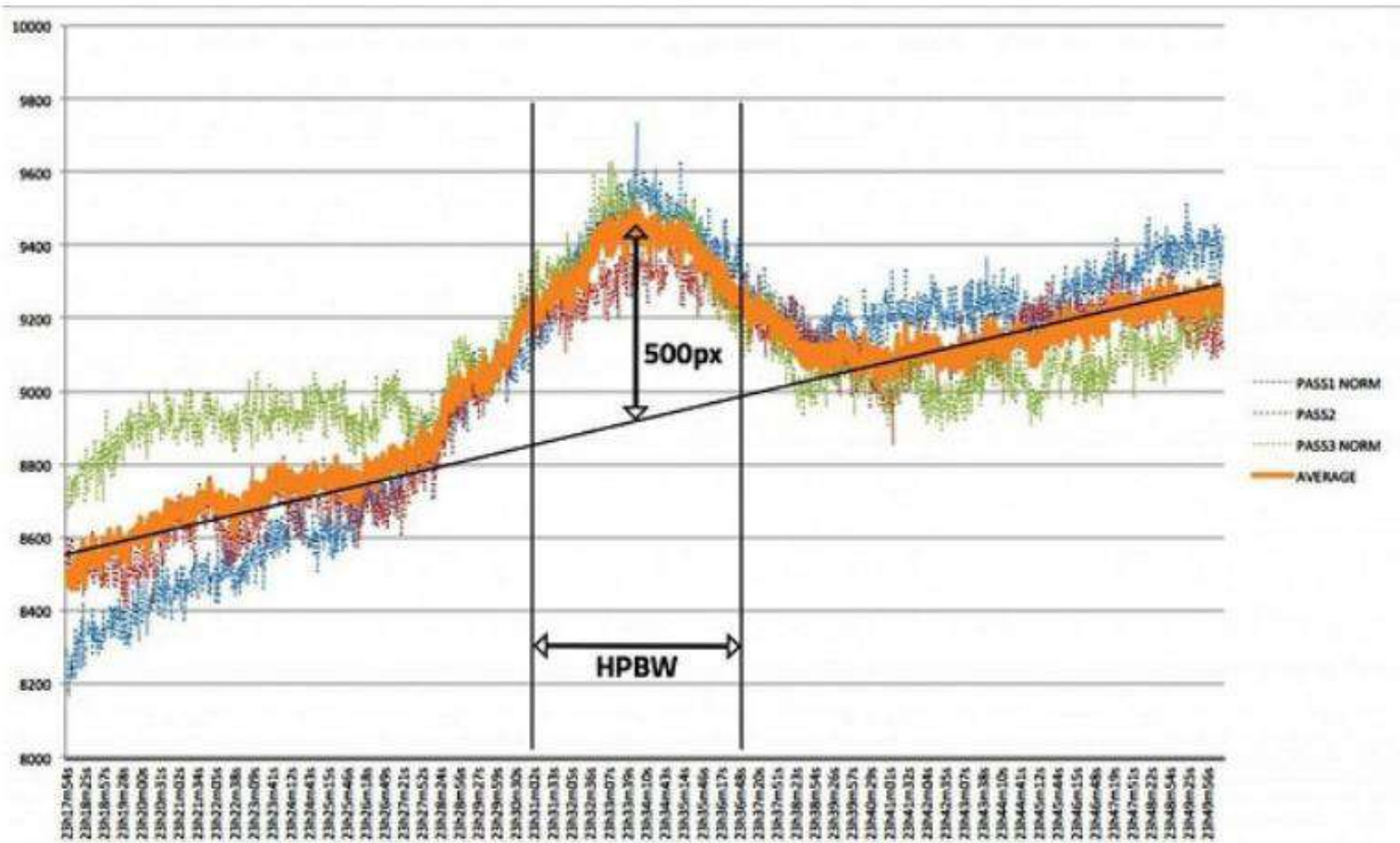
RAL10 11.2 GHz Moon Transit — Senigallia (AN) Italy — 13.2152° E, 43.7198° N



Transit d'une Radiosource Taureau A



Transit d'une Radiosource Cassiopée A





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Product Description: Filter: All

(e.g. 10ft Mesh Satellite Dish)

Search Results: 22 product(s) found

Product Index > Antennas				
	Product	Category	Price (USD)	Available
	240cm (8ft) C/Ku-Band Prime Focus Mesh Satellite Dish	Antennas	\$469.00	
	300cm (10ft) C/Ku-Band Prime Focus Mesh Satellite Dish	Antennas	\$799.00	Yes
	240cm (8ft) C/Ku-Band Prime Focus Solid Satellite Dish	Antennas	\$499.00	Yes
	90cm (36 inch) Ku-Band Solid Offset Satellite Dish	Antennas	\$99.00	Yes
	120cm (48 inch) Ku-Band Solid Offset Satellite Dish	Antennas	\$229.00	Yes
	350cm (12ft) C/Ku-Band Prime Focus Mesh Satellite Dish	Antennas	\$1549.00	Yes
	400cm (13.5ft) C/Ku-Band Prime Focus Mesh Satellite Dish	Antennas	\$2299.00	Yes
	120cm Ku-Band Solid Offset Satellite Dish-ND			
	ime Focus			



RTL-SDR

500 kHz to 1,75 GHz

RADIOTÉLESCOPE 4.0

Les observation avec Lucie page

Radio-Astronomy with RTL-SDR

+

hackster.io/mariocannistra/radio-astronomy-with-rtl-sdr-rpi-and-amazon-aws-iot-45b617

Overview

Things

Story

UPDATE 3 - May 7, 2018

UPDATE 2

UPDATE 1

Amateur radio-astronomy with your Raspberry Pi

Which kind of signals could I receive

A bit of scientific background

About CML-Io Phase Plane Probabilities

Book reference

Software to plan your radio scan sessions

Also the Sun can be received

My requirements

Schematics

Code

Credits

Comments (20)

64


Mario Cannistrò

Published February 6, 2016 © CC BY

Radio-Astronomy with RTL-SDR, RPi and Amazon AWS IoT

Radio emissions from sky sources like Sun and Jupiter can be received and converted to digital domain for processing.

Advanced Full instructions provided 22,223



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Détection des météores



RTL-SDR.COM

RTL-SDR (RTL2832U) and software defined radio news and projects. Also featuring Airspy, HackRF, FCD, SDRplay and more.



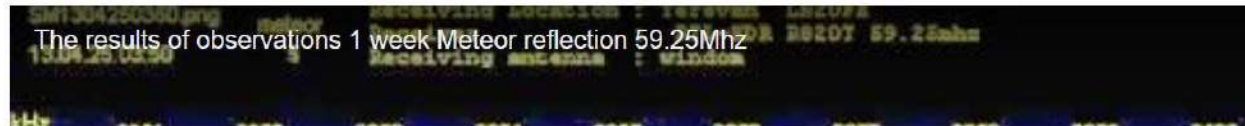
MAY 1, 2013

METEOR REFLECTION OBSERVATIONS WITH RTL-SDR

YouTube user [ek6rc](#) has posted a video showing one week of meteor scatter observation at 59.25MHz using the rtl-sdr and the [HROFFT](#) software. More information about meteor scatter observations can be found at the page of [The International Project For Radio Meteor Observation](#). The rtl-sdr is handy as a cheap monitoring tool for purposes such as this. From Wikipedia [meteor scatter](#) is described as follows.

“ Meteor burst communications (MBC), also referred to as meteor scatter communications, is a radio propagation mode that exploits the ionized trails of meteors during atmospheric entry to establish brief communications paths between radio stations up to 2,250 kilometres (1,400 mi) apart.

”



The results of observations 1 week Meteor reflection 59.25Mhz



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OCTOBER 16, 2017

METEOR LOGGER: A TOOL FOR COUNTING METEOR DETECTIONS WITH AN RTL-SDR

Thanks to Wolfgang Kaufmann for [submitting news about his new software called 'Meteor Logger'](#). This tool can be used to count the number of meteors entering the atmosphere which have been detected by a meteor scatter setup using an RTL-SDR or similar SDR.

Wolfgang writes about his software:

“ I have developed a new piece of software “Meteor Logger” to detect and log radio meteors from the digital audio stream of a PC-soundcard. It is based on Python 3. It is addressed to those meteor enthusiasts who want get the most information out of forward scattering of radio waves off meteor trails. “Meteor Logger” do not display spectrograms, it delivers an instantaneous and continuous numerical output of the detected signal with a high time resolution of about 11 ms. Thereby a radio meteor signal is not detected on the basis of an amplitude threshold but on its signature in the frequency domain. “Meteor Logger” has a built in auto notch function that may be helpful in case of a persistent strong interference line. From these data not only hourly count rates can be derived but it is also possible to easily study power profiles of meteors as well as Doppler shifts of head echoes.



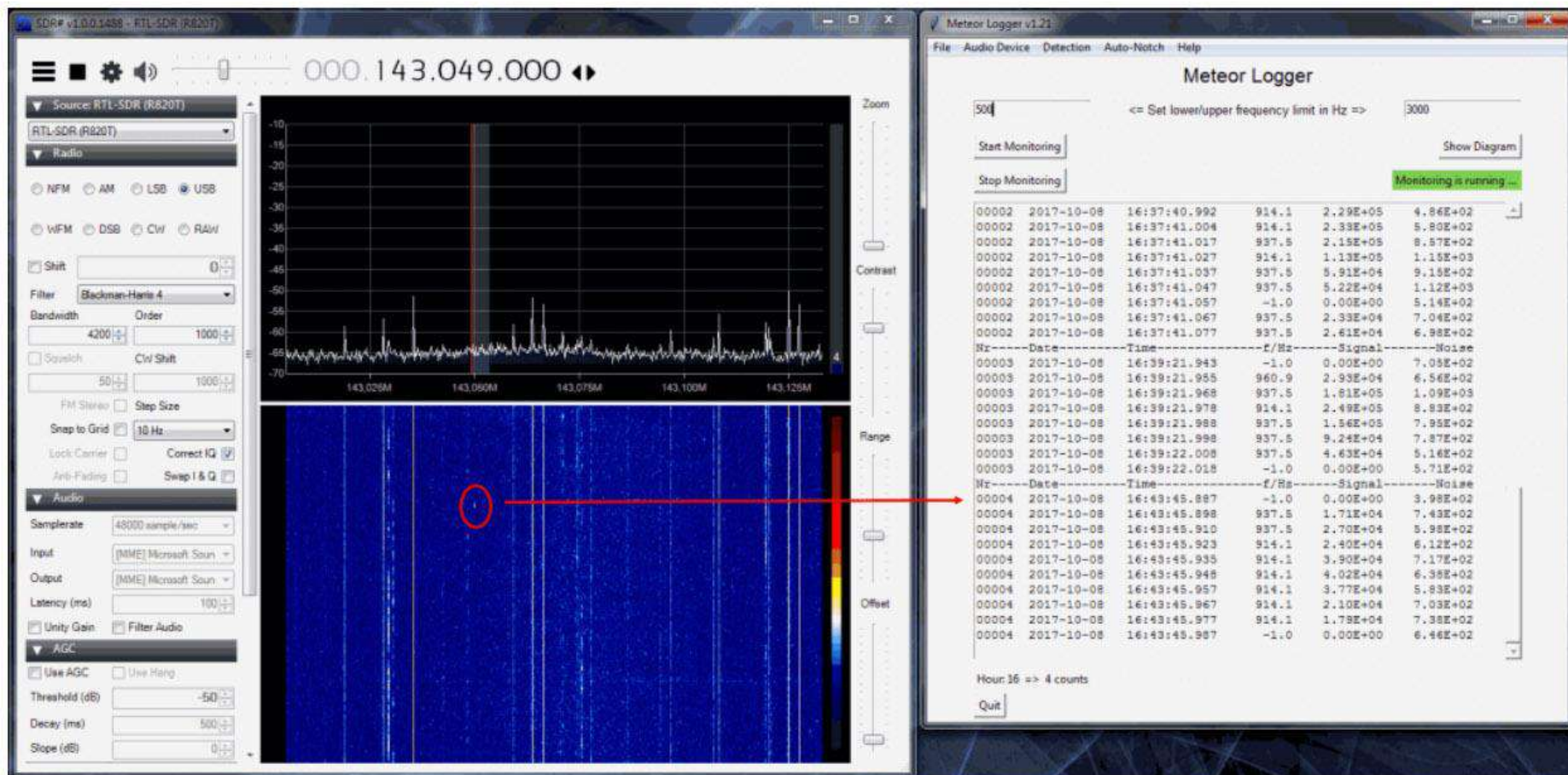
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Meteor Logger

RADIOTÉLESCOPE 5.0



Système embarqué de détection des météores

**Stazione RADAR Graves – France 143.050 MHz
ATTIVA**

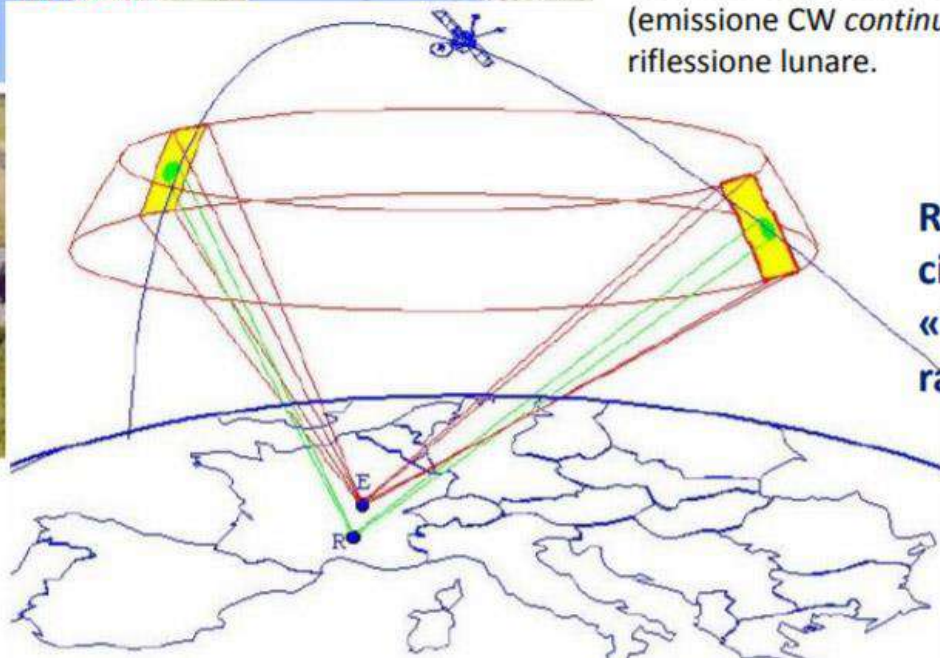


Il radar GRAVES, attivo dal 2003, è gestito dall'aeronautica militare francese per mappare e catalogare gli oggetti che orbitano nello spazio intorno al nostro pianeta. E' stato progettato per "vedere" un oggetto spaziale grande almeno dieci centimetri.

Il radar trasmette sulla frequenza di 143.050 MHz con una potenza dell'ordine delle decine di kW utilizzando antenne che inviano il segnale verso lo spazio. L'elevata potenza in gioco consente la ricezione degli echi del segnale di Graves (emissione CW *continuous wave*) anche per riflessione lunare.



GRAVES (*Grand Réseau Adapté à la Veille Spatiale*) è un radar di sorveglianza spaziale francese.



**Regione del
cielo
«illuminata» dal
radar GRAVES.**