



IQmonitor tool

stephan94 Jun 24th 2018



stephan94

[Moderator]

Reactions Received:

623

Posts:

1,057

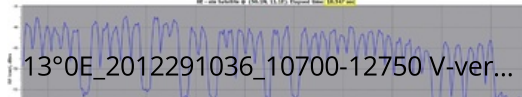
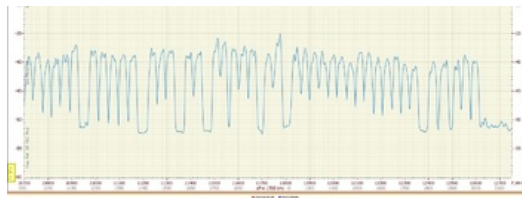
Dec 29th 2020

Hallo
auch selber probiert .
Nur mit einfache Blindscan .
Mit HR spectrum+blindscan ist es selbstverständlich länger (265 s).
Mit HR Blindscan (101 s)

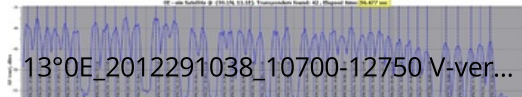
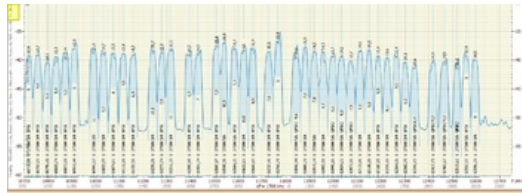
Hello

also tried it myself.
Only with a simple blind scan.
With HR spectrum + blindscan it is of course longer (265 s).
With HR blind scan (101 s)

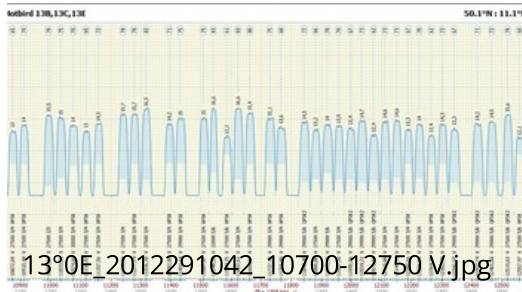
Images



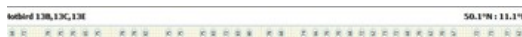
385.21 kB 1,285×954 63

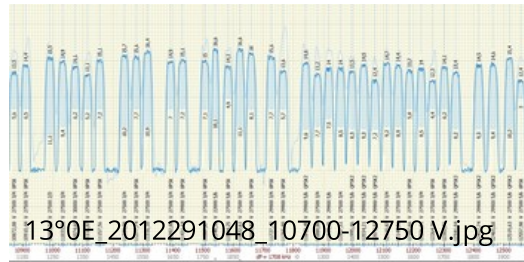


589.27 kB 1,285×954 59



319.05 kB 1,285×572 54





329.22 kB 1,285x572 53

Franzose in Franken
 1.80m Ch.Master Revolver 5 LNB
 IBU twin , Bulleye 10kHz, Kaonsat 13K, Inverto KaKuband,Kaband (A)
 TBS5925+6983; Openbox SX6 ; Edision MIO4K ;GTMedia V8 turbo



strannik

[Enlightened]

Dec 30th 2020

IQmonitor Lite

The IQmonitor Lite program is designed to search, register and in-depth analysis of satellite signals of the DVB-S2 standard, as well as its extension DVB-S2x. IQmonitor Lite is the fastest and most accurate RF analyzer in the 250-2500MHz range using PCI cards supported by StreamReader *crazycat*.

Reactions Received: 539
 Posts: 495

Exclusive algorithms for registering RF spectra allow obtaining high-quality, with compensation for nonlinearity of the frequency response of the entire receiving installation and standing waves in the cable for reducing the image of satellite signals with a size (along the frequency axis) up to 2500 pixels.

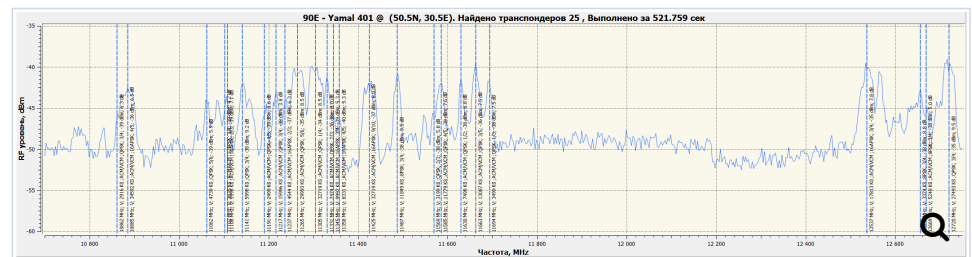
The program implements the principle of the maximum possible resolution of the spectra: SNR signal measurement for each pixel of the satellite spectrum graph.

This was made possible by measuring the SNR of the signal by its constellation even at levels below the lock threshold. A huge amount of calculations due to the use of an exclusive tunneling algorithm for the transition from the data space to the solution space was carried out within a reasonable time frame of the formation of the spectrum of DVB-S2 signals.

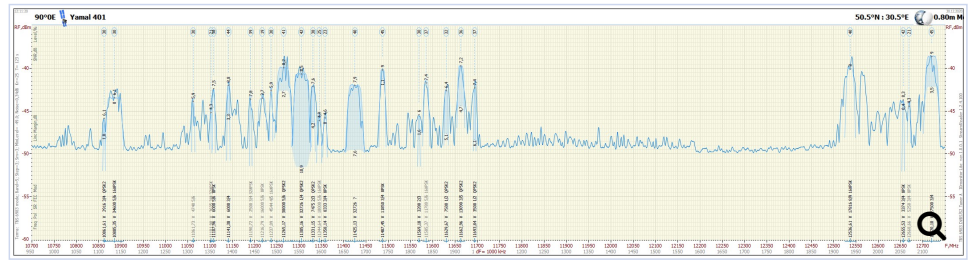
The resolution of HR (High Resolution) spectra reaches 0.2 MHz/pixel (per measurement), in contrast to the crazyscan program, in which this value is limited by the PCI card bandwidth at ~ 5 MHz, that is, 25 times worse.

IQmonitor Lite allows you to vary the parameters of the BlindScan to achieve maximum scanning speed or thoroughness. If you run another program with the same parameters (for example, crazyscan), then the scan time will still be longer, and the number of found transponders will be less.

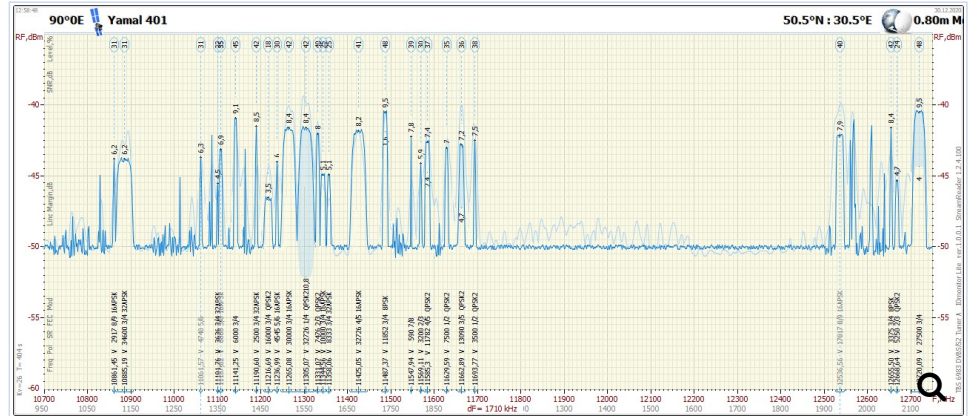
Simple spectrum step=3MHz + blindscan 27+522=549s, found 25 transponders :



Simple spectrum step=3MHz+ blindscan 21+123=144s, found 25 transponders :

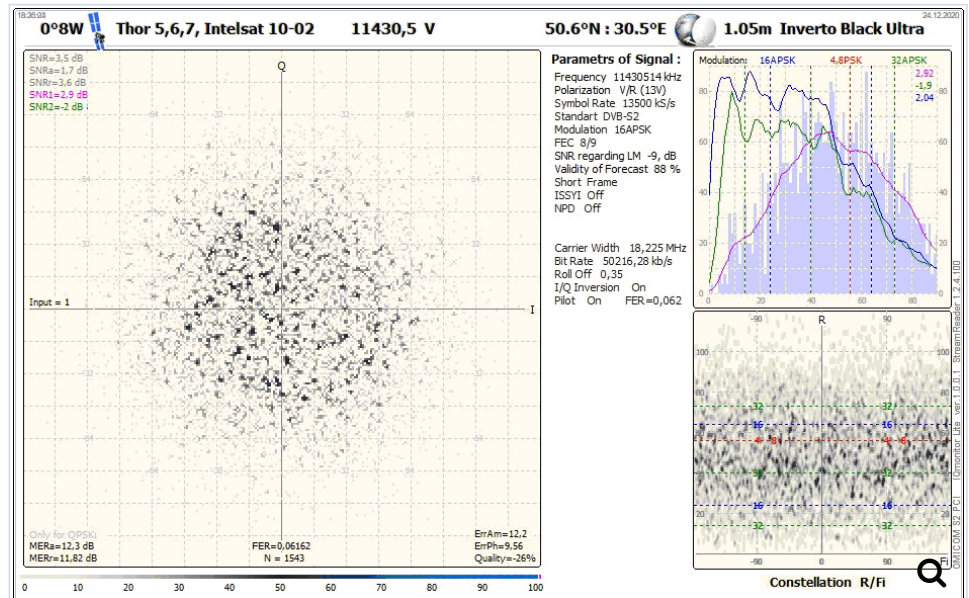


HR spectrum 404s, found 26 transponders :



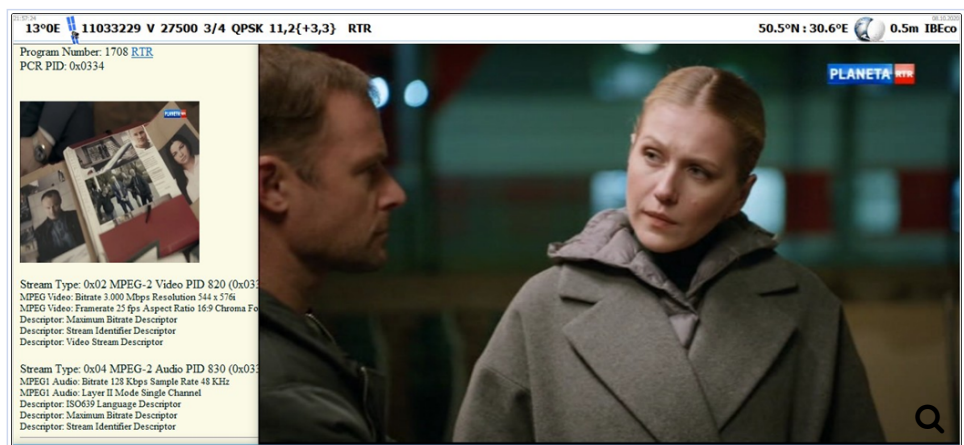
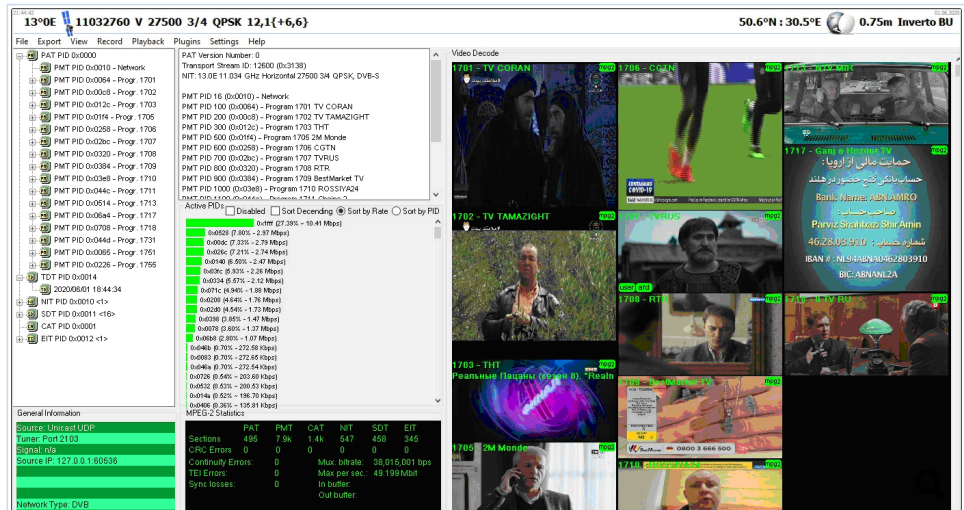
IQmonitor Lite is unmatched when searching for low speed and nearby transponders. With its help, you can register and study ultra-narrowband satellite signals, up to the beacon. You can see how the high resolution (HR) spectrum of the satellite signal compares favorably with the normal (RF) spectrum (pale blue graph).

The IQmonitor Lite program successfully, and, most importantly, accurately determines the parameters of the transponders by IQ data in the "manual" search mode Feed Report:



Please note that the parameters of the 11430.5 V 13500ks/s FEC 8/9 16APSK transponder are determined exactly when the signal level is 9dB below the lock threshold, and the forecast reliability is 88%. This estimate was obtained using the exclusive FER (Fatal modulation Error Rate) parameter - the level of fatal modulation errors, which we have proposed and in other programs, of course, is absent.

The IQmonitor Lite program writes the transport stream of the locked transponder to disk, analyzes it using an external parser and simultaneously broadcasts it to the network using the UDP protocol. The stream can be analyzed by external programs and viewed by video players :



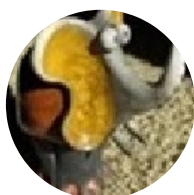
IQmonitor Lite is the perfect tool for DX's and feedhunters.

To install the program, it is enough to unpack the archive into the selected directory, and if it is the directory of the IQmonitor_2 program, then all your settings, including the calibration curve, will be automatically used. If the directory was empty, you need to write your coordinates, antenna aperture diameter and LNB type in the program, and write paths to parsers and viewers in the ini-file. The calibration curve will either need to be registered or loaded from an rfs file.

After closing the program, all settings will be saved in the IQmonitor_Lite.INI file.

 . Yuri Filatov (*strannik*)

<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)



stephan94

[Moderator]

Dec 30th 2020

Eine der Besonderheiten von IQMonitor lite ist die Möglichkeit, das Frequenzbereich 11700-12500 nicht zu scannen. Manchmal ist es mit einer kleinen Antenne schwierig, zwei Satelliten zu trennen (z. B. 10 ° Ost-9 ° Ost).

so ist es einfacher geworden , und dazu ist die scandauer abgekürzt

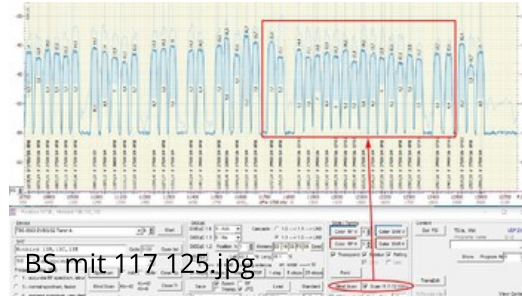
One of the particularities of IQMonitor lite

is the possibility of not scanning the frequency band 11700-12500. Sometimes with a small antenna it is difficult to separate two satellites (10 ° East-9 ° East for example)

Reactions Received: 623
Posts: 1,057

this novelty makes it easier.and the scanning time is also shortened

Images



412.43 kB 1,272×906 68



384.55 kB 1,273×905 69

Franzose in Franken

1.80m Ch.Master Revolver 5 LNB

IBU twin , Bulleye 10kHz, Kaonsat 13K, Inverto KaKuband,Kaband (A

TBS5925+6983; Openbox SX6 ; Edision MIO4K ;GTMedia V8 turbo

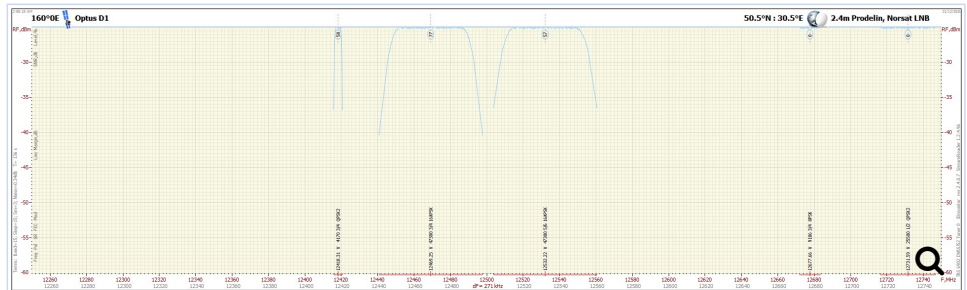


moonbase

Reactions Received: 143
Posts: 102

Dec 30th 2020

Here is a screen shot from Optus D1 @ 160.0E in H polarity.



Dec 30th 2020

Quote from moonbase

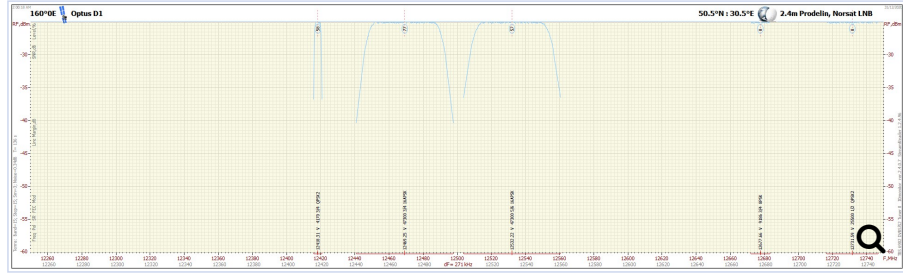
Here is a screen shot from Optus D1 @ 160.0E in H polarity.



strannik

[Enlightened]

Reactions Received: 539
Posts: 495



This is not a spectrum, but delirium on a moonlit night ...
 First, enter your coordinates, and then write down how (by the sequence of what operations and under what parameters) you managed to get such a funny picture.
 Your log- and INI- files will help us sort out this situation.

Success



Yuri Filatov (strannik)

<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)



moonbase

Reactions Received: 143
Posts: 102

Dec 31st 2020

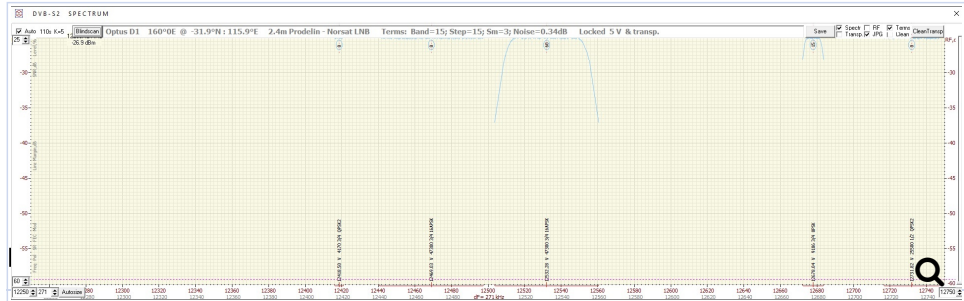
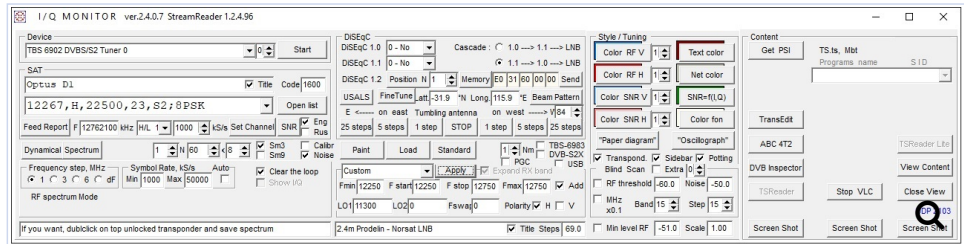
Quote from strannik





*This is not a spectrum, but delirium on a moonlit night ...
 First, enter your coordinates, and then write down how (by the sequence of what operations and under what parameters) you managed to get such a funny picture.
 Your log- and INI- files will help us sort out this situation.*

Success

More delirium, the coffee is strong today.
 I have attached some pictures of today's scan and setting panel from 160E and attached some log files. The coordinates are also included.
 I used the settings in the panel then pressed the blind scan button in the spectrum grid.



-  Log & INI.zip
(2.38 kB, downloaded 50 times, last: May 2nd 2022)
-  IQmonitor_2INI.zip
(1.92 kB, downloaded 52 times, last: May 2nd 2022)

Edited once, last by moonbase (Dec 31st 2020).



stephan94


[Moderator]

Dec 31st 2020

Hello Moonbase 🙏
Schauen Sie sich gut diese Video ,
so soll ein Blindscan ohne Spectrum funktionieren .
Sie können sehen , dass das Ergebnis viel besser ist.
Ich glaube , Sie müssen noch ein bisschen üben 🙏
Viel Glück

Hello Moonbase 🙏
Take a good look at this video,
this is how a blind scan should work without a spectrum.
You can see that the result is much better.
I think you need to practice a little more. 🙏
Good luck

Files

-  blindscan.zip
(1.91 MB, downloaded 69 times, last: May 2nd 2022)

Franzose in Franken
1.80m Ch.Master Revolver 5 LNB
IBU twin , Bulleye 10kHz, Kaonsat 13K, Inverto KaKuband,Kaband (A)
TBS5925+6983; Openbox SX6 ; Edision MIO4K ;GTMedia V8 turbo

Dec 31st 2020

Greetings Yuri.
Many thanks for the lite version of the IQ monitor. 🙏🙏
I found a minor error saving settings. When selecting a C band and then closing IQmonitor Lite,
it does not save the C band setting. After opening IQmonitor Lite, the Ku band is selected again,

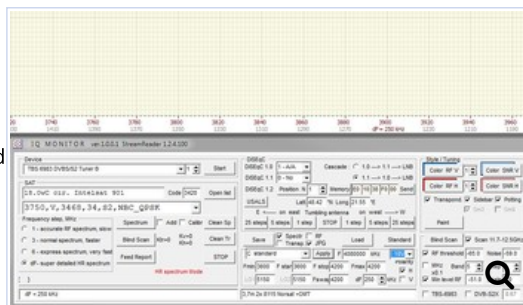


Peon

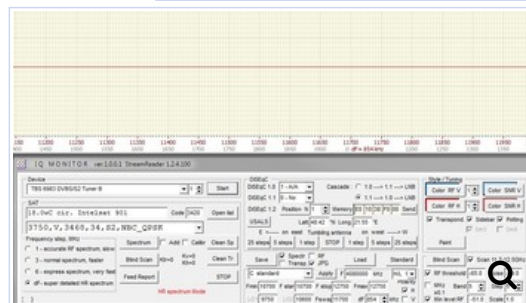
Reactions Received: 218
Posts: 196

as well as the original dF setting.
Where am I making a mistake? 🤔

Setting C band



after restart



Geoposition: 48,71N, 21,92E. Promax Ranger Neo 2, TBS5925, TBS6983, TBS6903, TBS6903x, TBS6903x V2, TBS6522, TBS5520SE, TBS5927, TBS5590, Prof7301, PF 250cm, ADE antenna 370cm. Full band LNBS: S, L, C: NJS8487S PLL, X PLL, Ku NJR2842S PLL, full Ka band PLL, and other iron for DX reception, 53W - 98E.



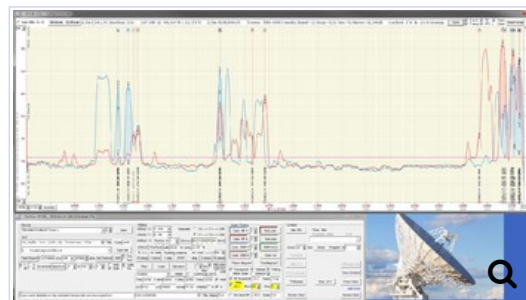
Peon

Reactions Received: 218
Posts: 196

Dec 31st 2020

Greetings Yuri.

I appreciate the possibility to choose the scanning range BlinScan (11.7-12500) I would welcome such a setting option in the lower band (10.7-11.7), because some satellites do not have full use of the lower band. For example, 18.0 west. *But variable, not fixed sets.*
Thank you for your response.



Geoposition: 48,71N, 21,92E. Promax Ranger Neo 2, TBS5925, TBS6983, TBS6903, TBS6903x, TBS6903x V2, TBS6522, TBS5520SE, TBS5927, TBS5590, Prof7301, PF 250cm, ADE antenna 370cm. Full band LNBS: S, L, C: NJS8487S PLL, X PLL, Ku NJR2842S PLL, full Ka band PLL, and other iron for DX reception, 53W - 98E.

Dec 31st 2020

Quote from stephan94

Hello Moonbase 🤝





moonbase

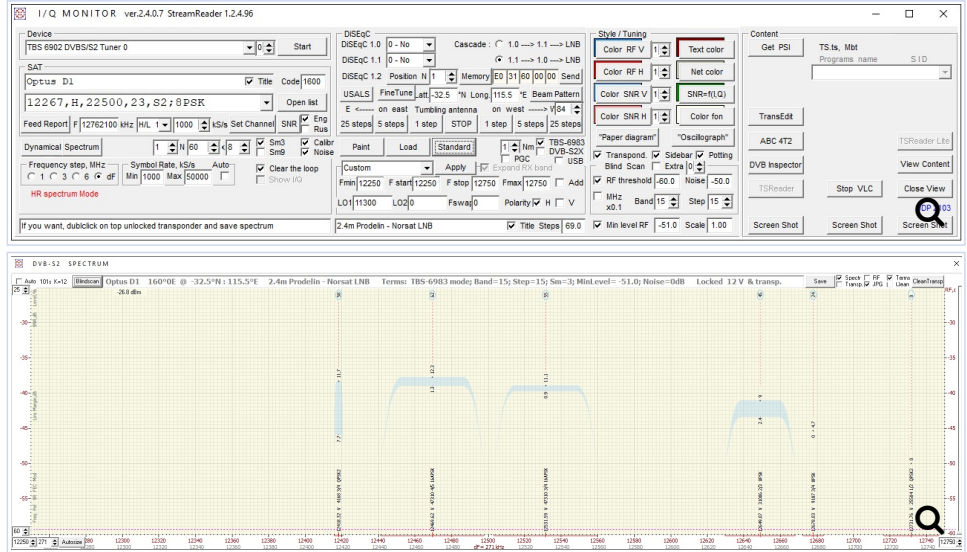
Reactions Received:
Posts:

143
102

Take a good look at this video,
this is how a blind scan should work without a spectrum.
You can see that the result is much better.
[Display More](#)

I used the settings in the video and ran the blindscan again.

It looks like more delirium and more coffee needed, perhaps something stronger than coffee?
A couple of points, I always get a message about a floating point error 0,633 when opening the IQ Monitor Tool and it does not seem to save my settings, it always reverts back to the Astra settings with an IBU LNB?



stephan94
[Moderator]

Dec 31st 2020

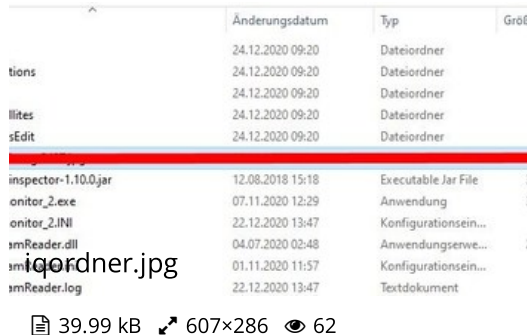
Sieht Ihr IQmonitor 2407-Ordner so aus?
Sie arbeiten mit Windows10 , nehme ich an
floating point error 0.633 ,keine Ahnung, was es sein kann

Does your IQmonitor 2407 folder look like this?
You're on Windows 10, I suppose
floating point error 0.633 ,i don't see what it can be

Images

Reactions Received:
Posts:

623
1,057



Franzose in Franken
1.80m Ch.Master Revolver 5 LNB
IBU twin , Bulleye 10kHz, Kaonsat 13K, Inverto KaKuband,Kaband (A)
TBS5925+6983; Openbox SX6 ; Edison MIO4K ;GTMedia V8 turbo

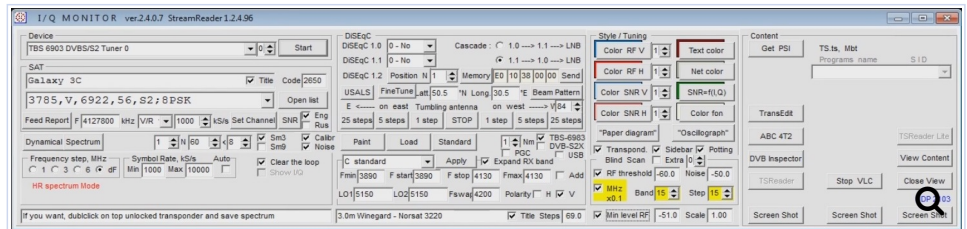
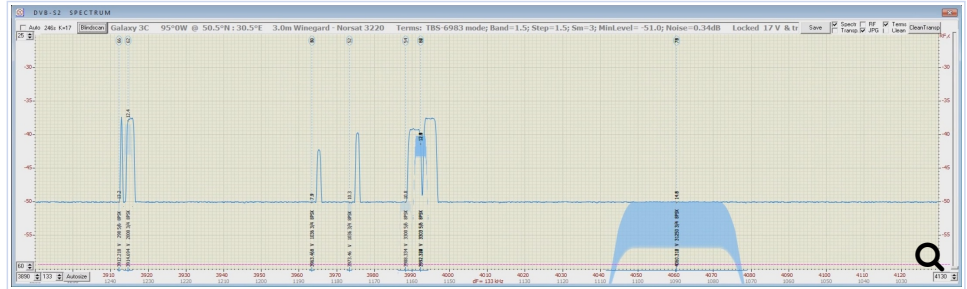


moonbase

Reactions Received: 143
Posts: 102

Dec 31st 2020

More delerium from me, this time it is from 95.0 West, Galaxy 3C in C-Band.



moonbase

Reactions Received: 143
Posts: 102

Dec 31st 2020

Quote from stephan94

*Sieht Ihr IQmonitor 2407-Ordner so aus?
Sie arbeiten mit Windows10, nehme ich an
floating point error 0.633 ,keine Ahnung, was es sein kann*



Does your IQmonitor 2407 folder look like this?
[Display More](#)

Stephan,

Please find attached below a picture of my IQ Monitor folder and one of the Floating Point error message.

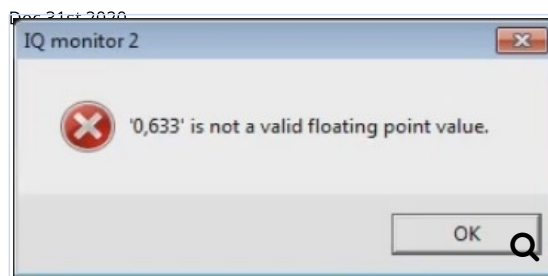
Name	Size	Type	Date modified
Eng		File folder	12/31/2020 6:12 AM
Positions		File folder	12/31/2020 6:13 AM
RUS		File folder	12/31/2020 6:13 AM
Satellites		File folder	12/31/2020 6:12 AM
Transponders		File folder	12/31/2020 6:18 AM
DVBinspector-1.10.0.jar	3,704 KB	JAR File	8/12/2018 4:18 PM
DVBSource.ini	0 KB	Configuration settings	10/4/2016 11:05 AM
IQmonitor_2.exe	3,683 KB	Application	11/7/2020 12:29 PM
IQmonitor_2.INI	86 KB	Configuration settings	12/31/2020 7:26 AM
IQmonitor_2.ini.jpg	69 KB	JPEG image	3/24/2019 8:39 PM
StreamReader.dll	2,324 KB	Application extension	3/5/2020 1:35 AM
StreamReader.ini	3 KB	Configuration settings	11/1/2020 11:57 AM
StreamReader.log	31 KB	Text Document	12/31/2020 7:26 AM
TransEdit.chm	356 KB	Compiled HTML Help file	12/28/2014 9:12 AM
TransEdit.exe	768 KB	Application	11/17/2017 6:34 AM
TransEdit.ini	4 KB	Configuration settings	2/6/2019 2:28 PM
TransEditHelp.ini	1 KB	Configuration settings	12/5/2009 3:11 AM



strannik
[Enlightened]

Reactions Received:
Posts:

539
495



Hi Peter
 Thank you very much for the error encountered while saving the settings.
 Let's figure it out after the holidays.
 In the meantime, Happy New Year! 🎄🎅🧑🏻
 Yuri



Yuri Filatov (*strannik*)

<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)



femi

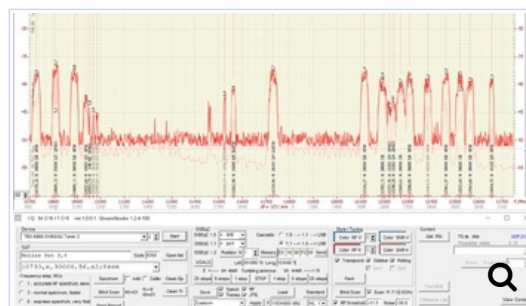
Reactions Received:
Posts:

337
516

Dec 31st 2020

Hier ein Testlauf mit der Light Version auf 39°E ohne jetzt speziell auf Einstellungen geachtet zu haben.

Here is a test run with the light version at 39 ° E without paying special attention to the settings.



Ku/C-Band: IRTE (2,4m, 78°E - 43°W, Corotor II plus), LNBS: SMW Multiband Typ E, Norsat DRO 8115F 15K
 Ka/Ku/C/(X)-Band: Laminas 1800 stationär (55°E - 5°W, LNB-Changer Version 2018) und Laminas 1800 mobil
 LNBS: Zinwel ZCF-D21B 20K, Norsat 9000HAF-2, 9200HBC-4F, 9000HD-3F, 9200HEF-4, XMW R1314IF-1
 Tuner: TBS 6908, TBS 6925, TBS 5927, TBS 5580, TBS6903x, TBS6281SE, TBS6904SE



strannik

[Enlightened]

Dec 31st 2020

Quote from Peon

*Greetings Yuri.*

*I appreciate the possibility to choose the scanning range BlinScan (11.7-12500)
 I would welcome such a setting option in the lower band (10.7-11.7), because some
 satellites do not have full use of the lower band...*

Reactions Received: 539

Posts: 495

I thought about it.

This idea occurred to me, and along with other innovations it will be implemented in the **Pro** version of the program

. Yuri Filatov (*strannik*)
<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)


strannik

[Enlightened]

Dec 31st 2020

Quote from femi



*Hier ein Testlauf mit der Light Version auf 39°E ohne jetzt speziell auf
 Einstellungen geachtet zu haben.*

*Here is a test run with the light version at 39 ° E without paying special attention to the
 settings.*

Reactions Received: 539

Posts: 495

Very good for a first try 🤔

Advice:

1. Coordinates are enough to set 48.60 and 15.53
2. In **IQmonitor_Lite.INI** write in the [CALIBRATION] section line
 LNB_NF = 0.73

Good luck! 🎄🎅

. Yuri Filatov (*strannik*)
<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)

Dec 31st 2020



femi

Reactions Received:

337

Posts:

516

Hello Moonbase,

Die meiste Ursache des Floating point Errors ist die Verwendung von "," statt "." oder umgekehrt, das hängt mit den Windows Systemeinstellungen zusammen.


Most of the cause of the floating point error is the use of "," instead of "." or vice versa, it has to do with the Windows system settings.

160E ist für uns Mitteleuropäer nicht gerade nicht gerade ein optimaler Satellit, um die ein Beispiel daraus zu basteln. Galaxy 3C in C-Band ist schon ein wenig besser.

0,1x MHz kannst du in den meisten Fällen deaktiviert lassen.

For us Central Europeans, 160E is not the ideal satellite to use as an example. Galaxy 3C in C-band is a little better.

You can leave 0.1x MHz deactivated in most cases.

All users a happy new year and stay heath 

Ku/C-Band: IRTE (2,4m, 78°E - 43°W, Corotor II plus), LNBS: SMW Multiband Typ E, Norsat DRO 8115F 15K

Ka/Ku/C/(X)-Band: Laminas 1800 stationär (55°E - 5°W, LNB-Changer Version 2018) und Laminas 1800 mobil

LNBS: Zinwel ZCF-D21B 20K, Norsat 9000HAF-2, 9200HBC-4F, 9000HD-3F, 9200HEF-4, XMW R1314IF-1

Tuner: TBS 6908, TBS 6925, TBS 5927, TBS 5580, TBS6903x, TBS6281SE, TBS6904SE



strannik

[Enlightened]

Reactions Received:

539

Posts:

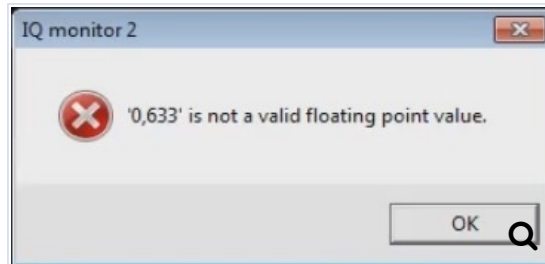
495

Dec 31st 2020

Quote from moonbase


Stephan,

Please find attached below a picture of my IQ Monitor folder and one of the Floating Point error message.



Good luck in the New Year!



And don't drink a lot of coffee - take care of your health 

MO

```
View - IQmonitor_2.INI
File Edit View Help

[FORM]
Top=619
Left=373
TopSpectr=1
LeftSpectr=-8
HeightSpectr=600
WidthSpectr=1940
TopFeedReport=8
LeftFeedReport=332
Caption=  I / Q  M O N I T O R
TopTransponder=-4
LeftTransponder=100
HeightTransponder=1000
TopTablo=240
LeftTablo=300
WidthTablo=480

[DEVICE]
Device=TBS 6902 DVBS/S2 Tuner 0
IndDevice=0
S2X_scale=0,633 Use a decimal point here, not a comma!
S2X_shift=47

[SAT]
SatCode=0049
SatName= Astra 4A & SES 5

[USALS]
Latitude=50.5 Fill in your coordinates,
Longitude=30.5 the diameter of the antenna in meters and its aperture
Antenna= 0.84m Invertto Black Ultra in centimeters.
Steps/degree= 69.0
Apertura=84 List your paths to parsers and viewers
```



Yuri Filatov (*strannik*)

<https://filatov-yuri.livejournal.com> (<https://filatov-yuri.livejournal.com>)



moonbase

Dec 31st 2020

@strannik ,

Thank you for the INI corrections.

One question, what is the Apertura of the dish, is this the beamwidth angle, for the prime focus dishes this is about 140.0 degrees?

Reactions Received:

143

Posts:

102

It is a slow process to learn from a zero start point but I am sure that I can improve, I will change from Coffee to Tea, it might reduce the delerium !

◀ 1 ... 54 55 56 ... 101 ▶

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