



TBS5590 DVB multi-standard Probe User Guide

Copyright © TBS Technologies 2005-2018 All Rights Reserved

2018-07-25

Catalog

1. Product Overview	3
1.1 Product Presentation	3
1.2 Product Specifications	4
2. Quick Start(Driver install).....	5
3. How to use with TSReader.....	7
3.1 DVB-S/S2.....	8
3.2 QAM-B	10
3.3 ASI	12

1. Product Overview

1.1 Product Presentation

TBS5590 is a DVB multi-standard external TV tuner box with USB2.0 interface. It is capable of receiving digital TV channels of multiple standards: DVB-S2X/S2/S/T2/T/C2/C/ASI/ISDB-T. Through the USB interface, you can easily plug the TBS5590 Universal TV Tuner box to your desktop or laptop PC for watching or recording different standards digital TV channels.

Coupled with TSReader software, TBS5590 is an ideal tool to do Real-time analysis, monitoring and recording of MPEG Transport Streams. TBS5590 is supported in TSReader 2.8.53 and later version, which includes source modules for each mode and will automatically reprogram the demodulator when changing modes.

1.2 Product Specifications

Specification:

Size	103*88*22mm
Input interface	1xRF, 1xASI
Digital TV Standards:	
ISDBT	COFDM demodulator and FEC decoding, Support 3 layers decoding, TMCC decoding
DVBT2 and T2-Lite	VHF band, UHF band, Bandwidth: 1.7, 5, 6, 7, 8MHz, FEC: QPSK, 16QAM, 64QAM.256QAM
DVBC2	COFDM Demodulator (16_QAM to 4096_QAM), FEC(LDPC/BCH) decoder
DVBC and ITU-T j.83ANNEX B	QAM demodulator, FEC decoder, 1 to 7.2MSymbol/s
DVB-S/DVBS2/DVB S2X	DVB-S/S2: QPSK,8PSK,16APSK,32APSK DVB-S2x: QPSK,2_4_2_APSK,8PSK,16APSK, 4_12_16rb_APSK, 4_8_4_16_APSK
DVB-ASI	Up to 200Mbps
Input/Power	12V/2A
Temperature	0 ~ 60°C
System Requirements	Windows XP / Vista/ 7/8/10 Available USB 2.0 Slot

2. Quick Start(Driver install)

When you get your TBS5590 please go to <https://www.tbsiptv.com/downloads> to download the latest driver.

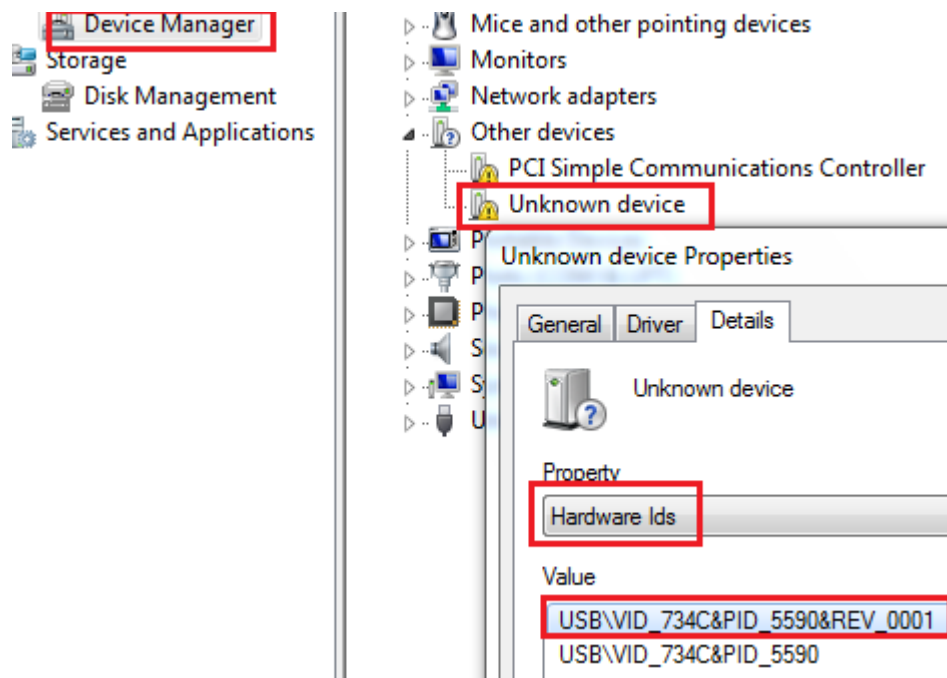
For windows 7/xp system please download this driver:

https://www.tbsiptv.com/download/tbs5590/TBS5590_drivers_release_v1.0.0.3.zip

For windows 10 please download this driver:

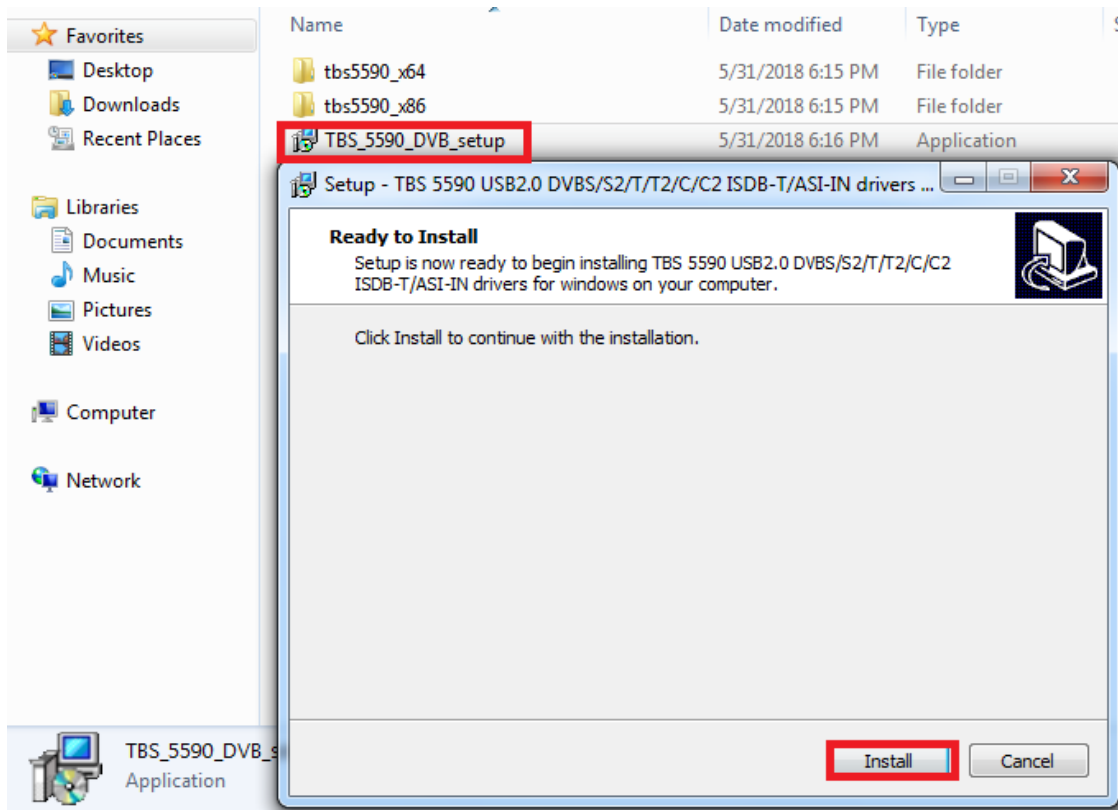
https://www.tbsiptv.com/download/tbs5590/TBS5590_drivers_release_v1.0.0.3_win10.zip

Connect the power to TBS5590 and connect the USB cable to your PC after connect you should get this picture from your windows device manage dialog:

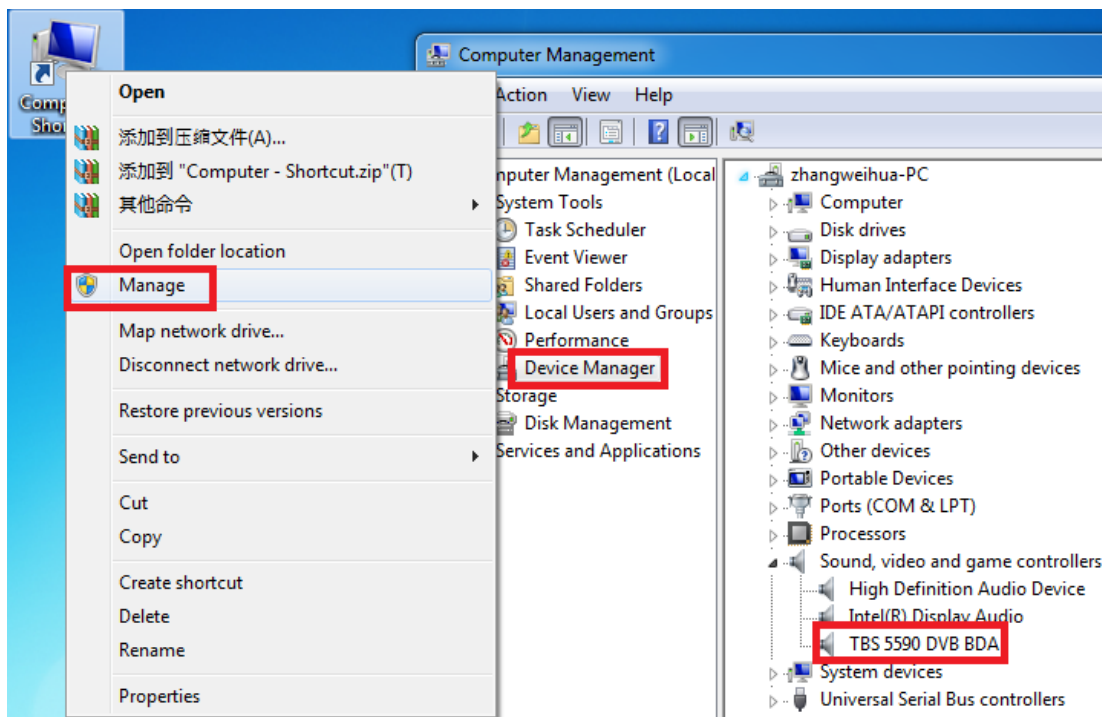


This means your PC detect your TBS5590.

Unpack the driver package Click “TBS_5590_setup”, and then a new window will pop



After success install the driver TBS5590 will show at Sound Video and game controllers device like this:

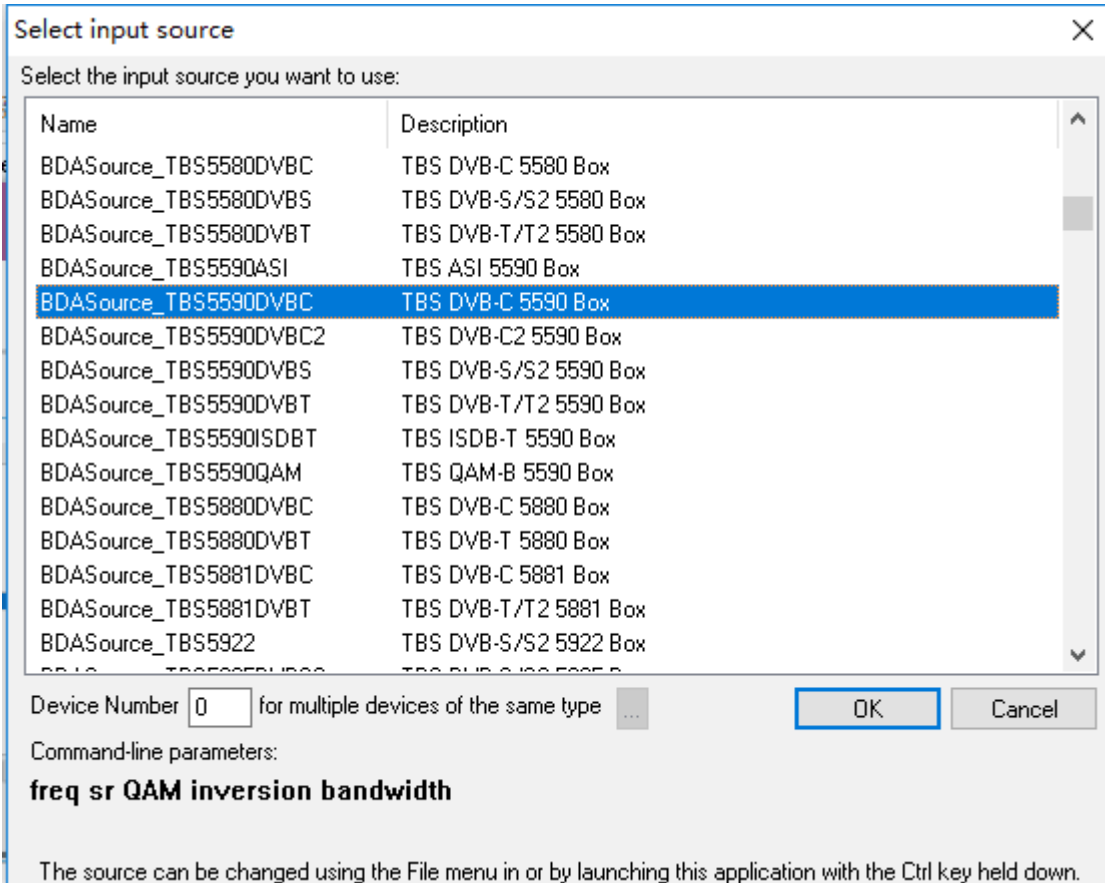


3. How to use with TSReader

Please download the latest version of TSReader from here:

<http://www.coolstf.com/support/update.php>

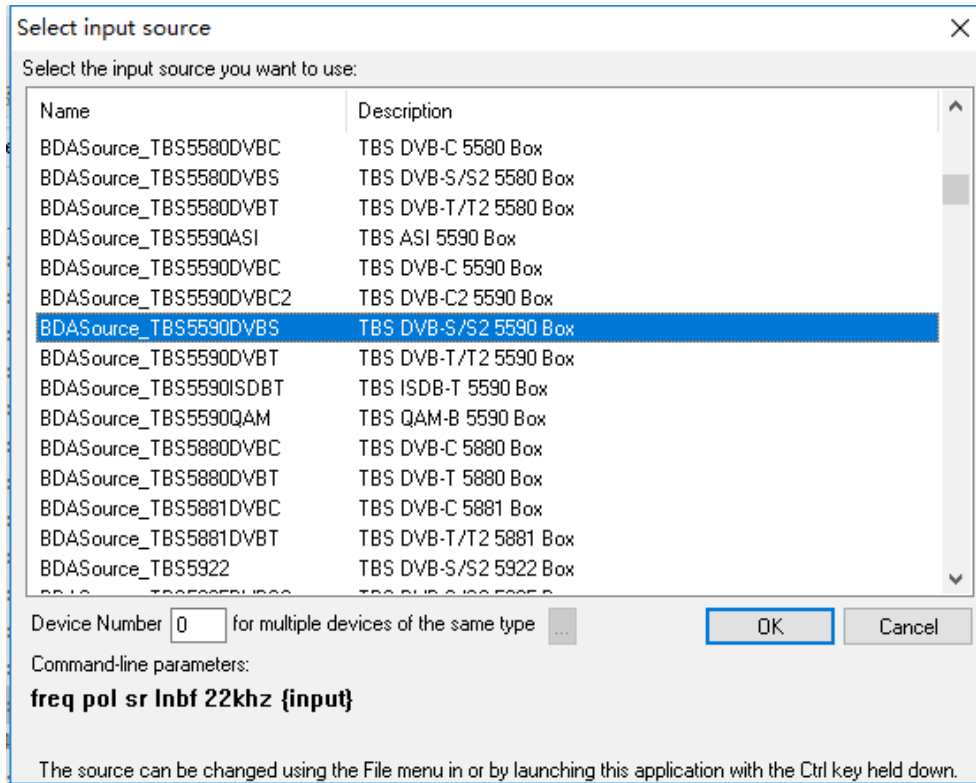
after install the latest version it already include TBS5590 module files:



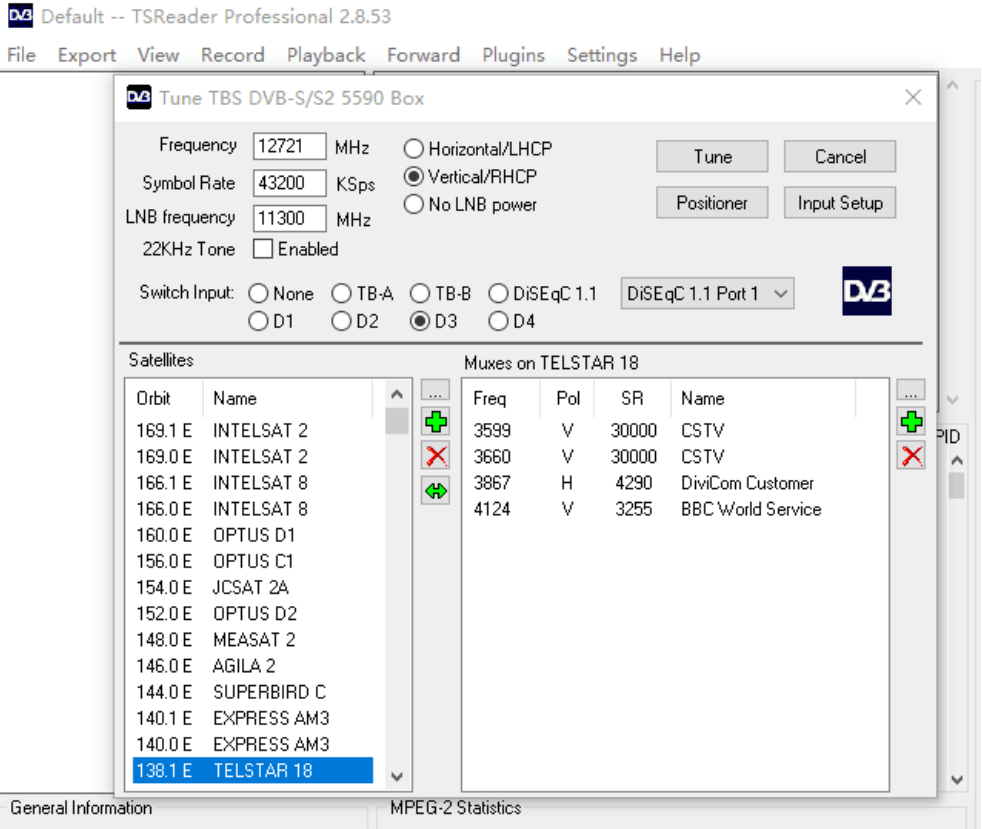
When you choose with different module file the TBS5590 will auto change the work mode.

3.1 DVB-S/S2

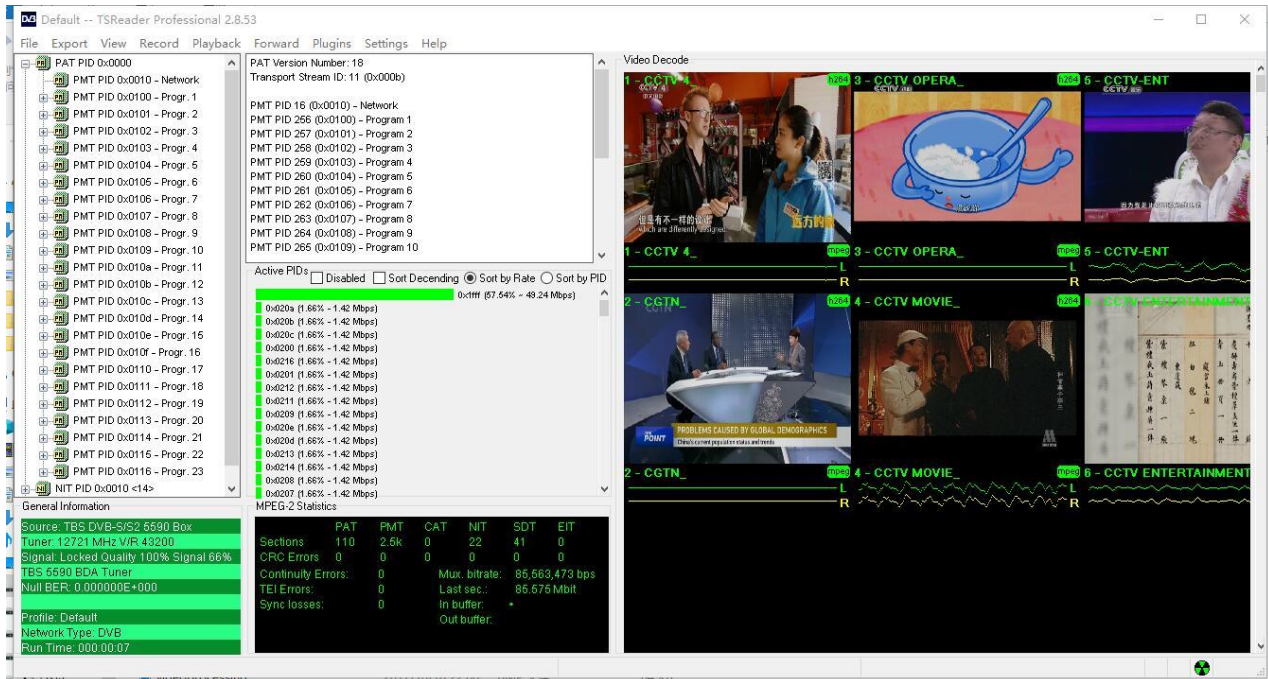
Let us try with **DVB-S/S2** open TSReader and choose TBS DVB-S/S2 5590 Box:



Input the right DVB-S/S2 parameters, Press Tune

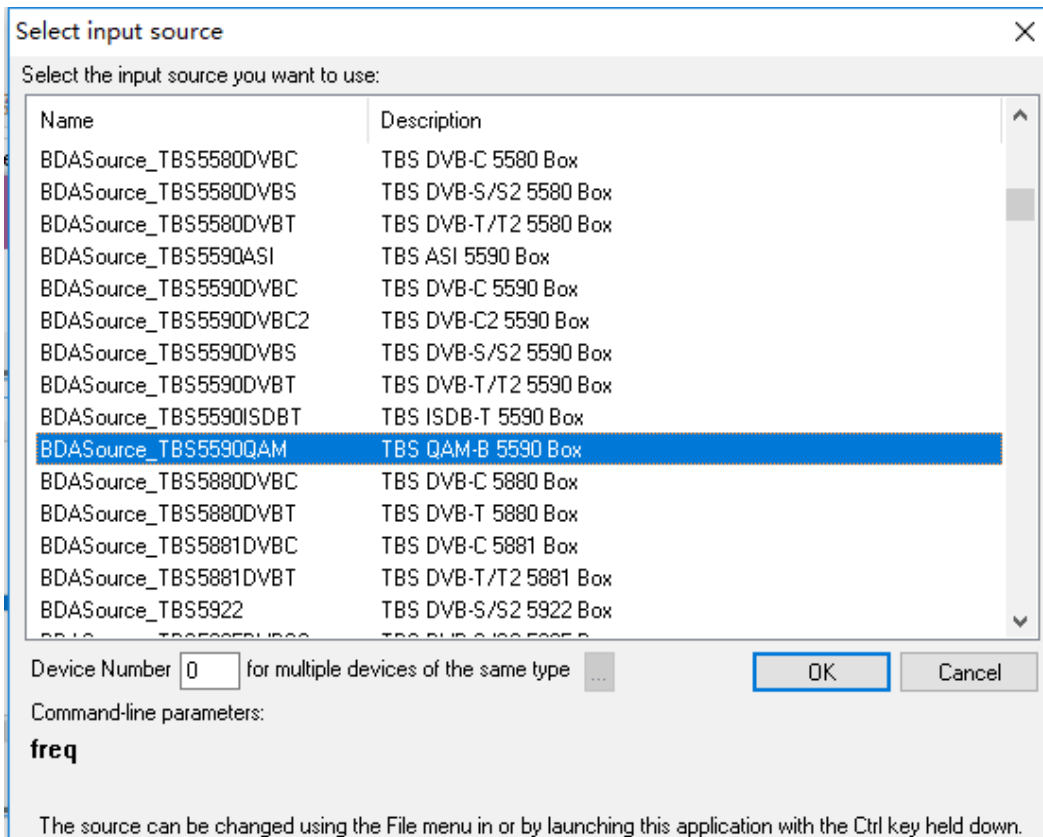


If the signal is well then you will get the scan result:

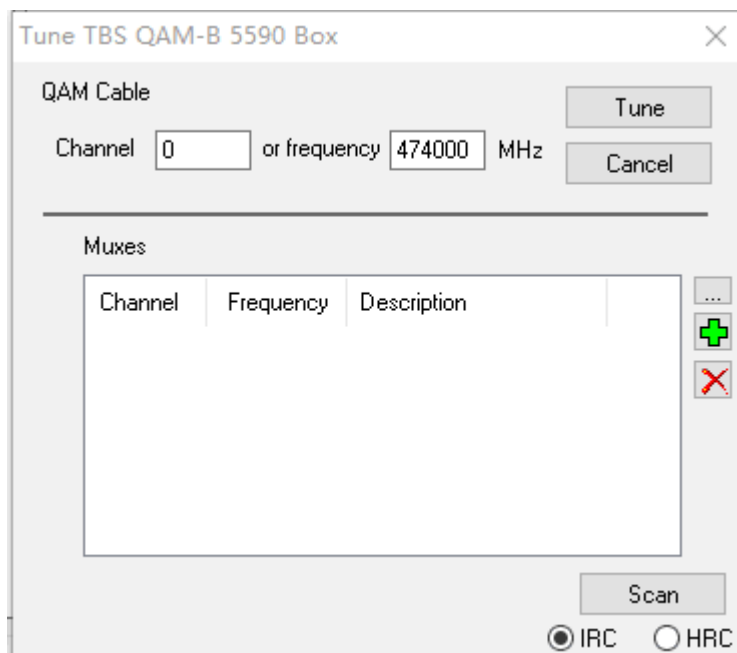


3.2 QAM-B

Choose TBS QAM-B 5590 box



Input the QAM-B parameters, Press Tune



If the signal is well then it will show like this:

Default -- TSReader Professional 2.8.53

File Export View Record Playback Forward Plugins Settings Help

PAT PID 0x0000

- [-] PMT PID 0x0010 - Progr. 1
- [-] PMT PID 0x0020 - Progr. 2
- [-] STT PID 0x1ffb
- [-] 2002/04/29 18:31:16
- [-] MGT PID 0x1ffb
- [-] TVCT PID 0x1ffb

PAT Version Number: 4
Transport Stream ID: 383 (0x0177)

PMT PID 16 (0x0010) - Program 9.1/1 KQED-HD
PMT PID 32 (0x0020) - Program 9.2/2 KQED-SD

Active PIDs: Disabled Sort Descending Sort by Rate Sort by PID

- 0x1fff (51.83% - 20.14 Mbps)
- 0x0011 (36.57% - 14.19 Mbps)
- 0x0021 (8.01% - 3.50 Mbps)
- 0x0024 (1.09% - 423.04 Kbps)
- 0x0014 (1.09% - 422.93 Kbps)
- 0x1ffb (0.07% - 28.19 Kbps)
- 0x0ef0 (0.05% - 21.06 Kbps)
- 0x0000 (0.04% - 15.04 Kbps)
- 0x0020 (0.04% - 15.04 Kbps)
- 0x0f0a (0.03% - 11.25 Kbps)
- 0x0e68 (0.03% - 11.25 Kbps)
- 0x0010 (0.02% - 7.46 Kbps)
- 0x0ef3 (0.02% - 6.13 Kbps)
- 0x0ef1 (0.02% - 6.13 Kbps)
- 0x0ef2 (0.01% - 4.68 Kbps)
- 0x0e69 (0.01% - 3.23 Kbps)

Video Decode

9.1/1 - KQED-HD mpg2

User: []

9.1/1 - KQED-HD aac3

L R

9.2/2 - KQED-SD mpg2

User: []

9.2/2 - KQED-SD aac3

L R

General Information

Source: TBS QAM-B 5590 Box
Tuner: Channel 0 (474000 MHz)
Signal: Locked Quality 100% Signal 94%
TBS 5590 BDA Tuner
Null BER: 3.599002E-002

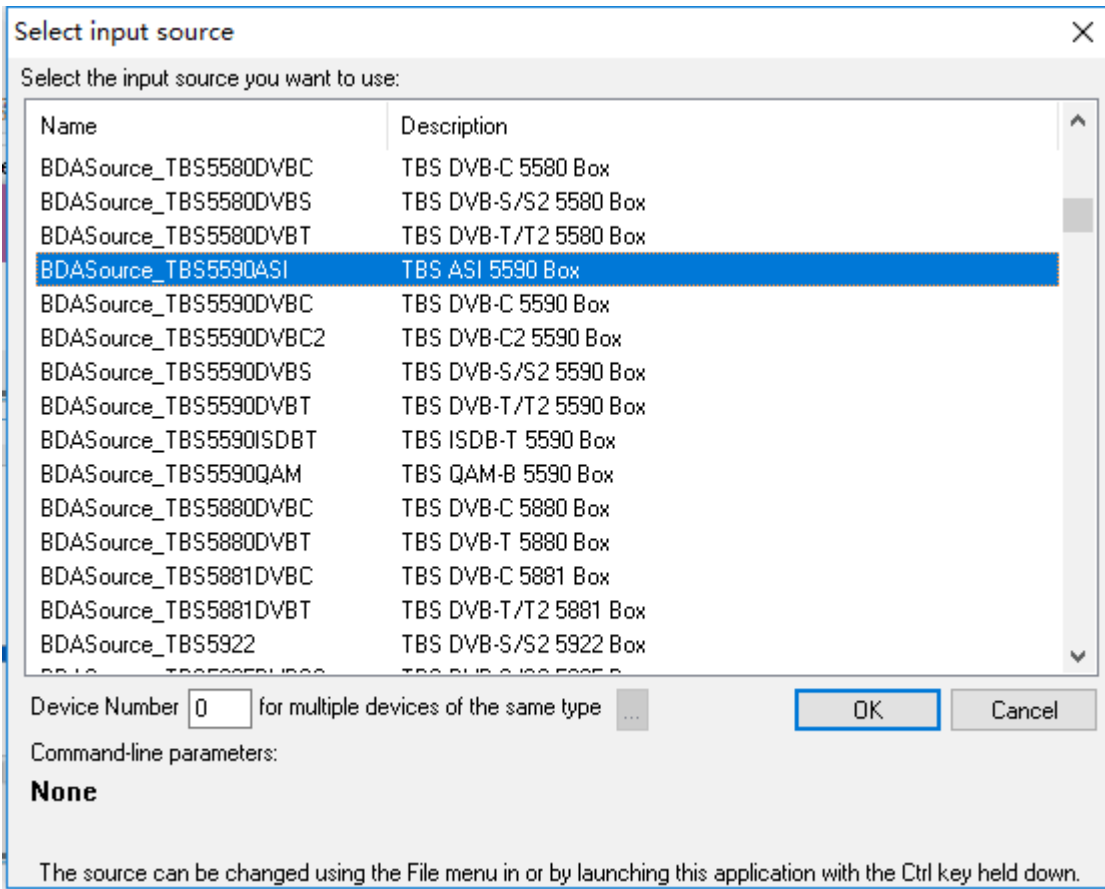
Profile: Default
Network Type: ATSC
Run Time: 000:00:13

MPEG-2 Statistics

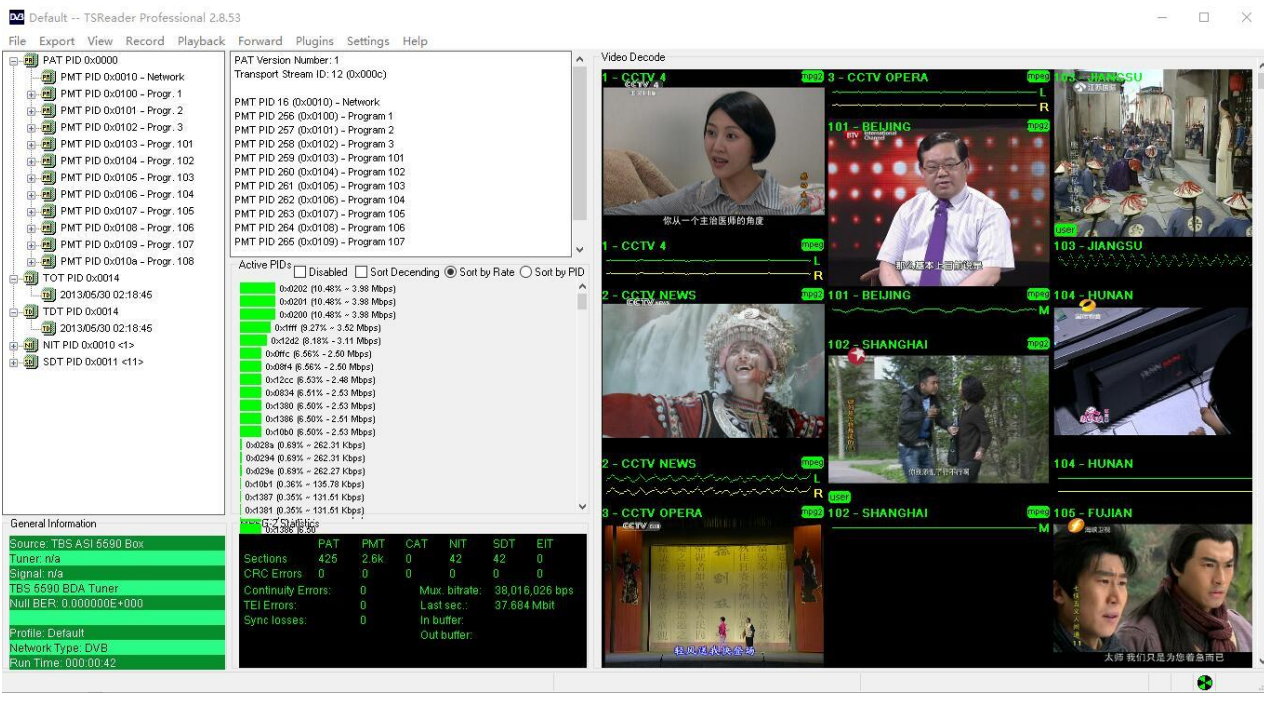
	PAT	PMT	CAT	ETT	PSIP	EIT
Sections	134	198	0	338	257	132
CRC Errors	0	0	0	0	0	0
Continuity Errors:	0			Mux. bitrate:	38,811,038 bps	
TEI Errors:	0			Last sec.:	38.469 Mbit	
Sync losses:	0			In buffer:		
				Out buffer:		

3.3 ASI

Choose TBS ASI 5590 box



If the ASI signal is well it will show all channels here



If you have any problem with TBS5590 Please send email to our **support@tbsdtv.com**, we will reply you as soon as possible.
