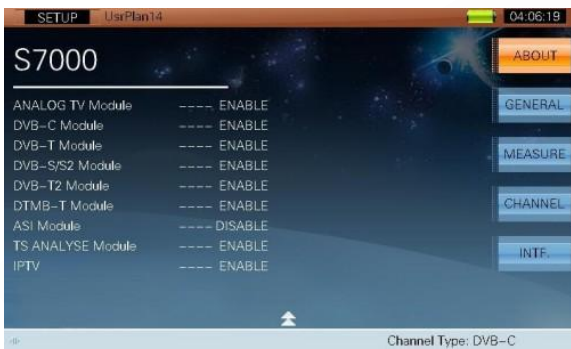
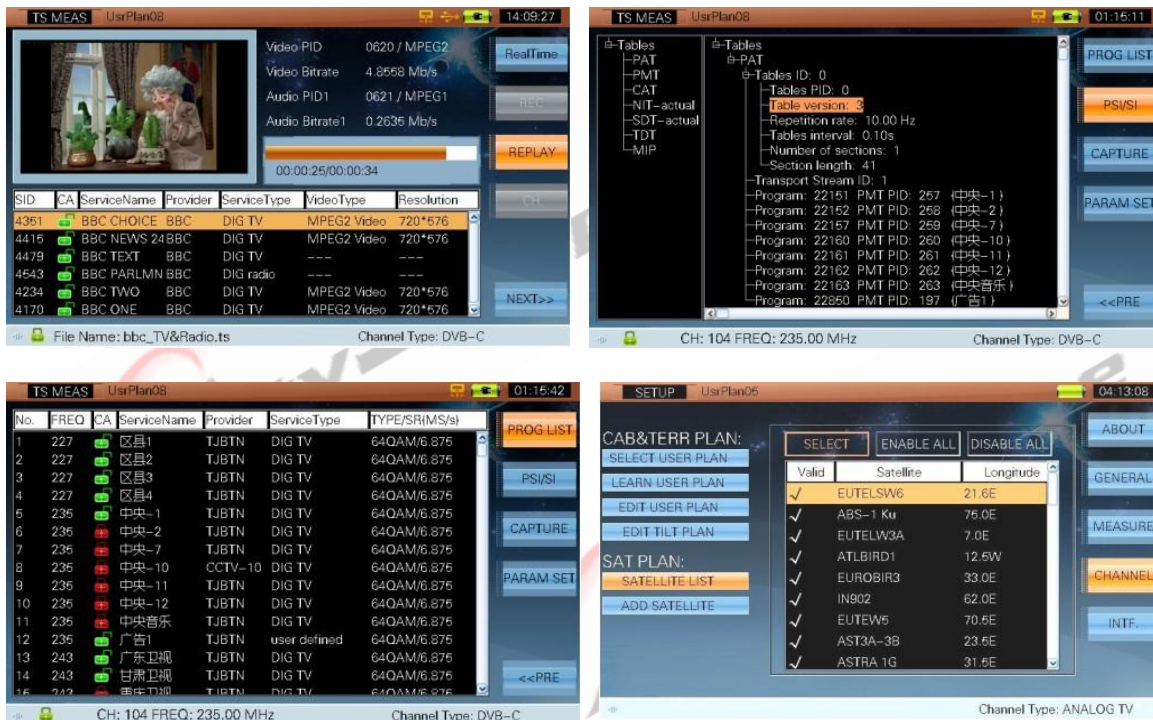


## All-IN-ONE TV Analyzer S7000



JPE





## Description

S7000 is a versatile TV analyzer which supports DVB-C/S/S2/T/T2/H standard digital TV analysis, MPEG1/2/4, H.264 Video Record, TS analysis and spectrum analysis, GPS, suitable for all test for television network.

## Key Feature

- > All standards in one: QAM(J.83A/B/C), 8VSB, DVB-T/H/T2, DVB-S/S2
- > Digital/Analog TV and Satellite TV analysis
- > MPEG2 Transport stream analyzer and monitoring via TS-ASI input & RF input
- > Fast spectrum analysis with 5 ~ 2150 MHz frequency span
- > DSP Technology to support different Video decoding: MPEG-2 , MPEG-4 and H.264 for 1080i, 720p and 576i, support PAL/NTSC/SECAM color system
- > Support SD&HD Video format
- > CAM module (Conditional Access) for encrypted channels
- > TS-ASI input and output
- > TS record and TS replay
- > IPTV analysis option
- > GPS option
- > HDMI, LAN and USB interface
- > Easy to use

- > High resolution 7" TFT LCD with bright display for indoors and outdoors use
- > W245\*H194\*L105, light weight
- > Over 4 hours battery working time

## Specification

Spectrum Analyzer	
Frequency Range	5 MHz ~ 1050 MHz (TV), 950 MHz ~ 2150 MHz (Satellite)
Frequency Span	0 MHz ~ 1045 MHz (TV), FULL/600/300/200/100/50/20/10 MHz (Satellite)
Frequency Step	10 kHz (TV), 1 MHz (satellite)
Resolution Bandwidth (-3 dB)	30 kHz, 100 kHz, 300 kHz, 1 MHz, 3 MHz (TV) 1 MHz, 3 MHz (satellite)
Level Measurement Range	10 dB $\mu$ V ~ 120 dB $\mu$ V (TV) 30 dB $\mu$ V ~ 120 dB $\mu$ V (Satellite)
Accuracy Of Measurements	<1.5 dB
Measurement Detector	Peak, sample, AVG
Reference Level	30 dB $\mu$ V ~ 120 dB $\mu$ V
Markers	2
Analog TV Measurement	
Standards	B/G, I, D/K, L/L', M/N
Color Standards	PAL, SECAM, NTSC
Frequency Step	10 kHz
Hum Measurement	> 50dB
C/N	> 50dB
Level Measurement Range	30 dB $\mu$ V ~ 120 dB $\mu$ V
Accuracy Of Measurements	< 1.5 dB
Level Resolution	0.1 dB
Digital CATV Measurement	
Modulation Type	16/32/64/128/256 QAM ITU-T J.83 ANNEX A/B/C
Symbol Rate	4.0 MS/s ~ 7.0 MS/s
Power Level Range	30 dB $\mu$ V ~ 110 dB $\mu$ V
Level Resolution	0.1 dB
Power Level Accuracy	$\pm$ 1.5 dB(C/N > 20 dB)
MER Measurement	~40 dB
MER Accuracy	$\pm$ 2.0 dB
BER	1E-3 ~ 1E-9
Constellation	$\sqrt{\quad}$
DVB-T/H Measurement	
Modulation Type	QPSK, 16 QAM, 64 QAM
Power Level Range	25 dB $\mu$ V ~ 110 dB $\mu$ V

# TV Analyzer

Level Resolution	0.1 dB
Power Level Accuracy	±1.5 dB (C/N >20 dB)
MER Measurement	> 30 dB
MER Accuracy	±2.0 dB
CBER/VBER	√
Constellation	√
MER Versus Carriers	√
Echo Pattern	√
<b>DVB-T2 Measurement</b>	
Modulation Type	QPSK, 16 QAM, 64 QAM, 256QAM
Power Level Range	25 dBμV ~ 110dBμV
Level Resolution	0.1dB
Power Level Accuracy	±1.5 dB(C/N >20 dB)
MER Measurement	>30 dB
MER Accuracy	±2.0 dB
CBER/LBER	√
Constellation	√
Echo Pattern	√
<b>ATSC Measurement</b>	
Modulation Type	8 VSB
Power Level Range	25 dBμV ~ 110 dBμV
Level Resolution	0.1 dB
Power Level Accuracy	±1.5 dB(C/N >20 dB)
MER Measurement	>35 dB
MER Accuracy	±2.0 dB
BER	√
Constellation	√
<b>DTMB Measurement</b>	
Carriers	C=1, 3780
Power Level Range	25 dBμV ~ 110 dBμV
Level Resolution	0.1 dB
Power Level Accuracy	±1.5 dB (C/N >20dB)
MER Measurement	>28 dB
MER Accuracy	±2.0 dB
BER	√
Constellation	√
Echo Pattern	√
<b>DVB-S/S2 Measurement</b>	

Modulation Type	QPSK, 8PSK
Symbol Rate	2 - 45 MS/s (DVB-S) 1 - 45 MS/s (QPSK DVB-S2) 1 - 45 MS/s (8PSK DVB-S2)
Power Level Range	40 - 110 dB $\mu$ V
Level Resolution	0.1 dB
Power Level Accuracy	$\pm$ 1.5 dB (C/N>20dB)
MER Measurement	> 25 dB
MER Accuracy	$\pm$ 2.0 dB
BER	DVB-S (CBER/VBER) DVB-S2 (CBER/LBER)
Constellation	$\sqrt{}$
<b>Video/Audio Decoder</b>	
Video	MPEG1/2/4, H.264
Video Resolution	1080i, 720p and 576i
Audio	MPEG1/2/4, AAC
CAM Module	EN50221 (DVB-CI) PCMCIA interface
TS-ASI Input And Output	$\sqrt{}$
TS Record	$\sqrt{}$
<b>TS Analyzer</b>	
<b>En 50083-9(DVB SPI, ASI)</b>	
DVB-ASI Interface	75 $\Omega$ BNC
DVB-ASI Clock	270 MHz
DVB-ASI Max Data Rate	0 to 72 Mbps
DVB-ASI Output Signal Level	1.0 Vp-p nominal
DVB-ASI Return Response	> 15dB
DVB-ASI Input Level	800 mV +/- 10%
Real-time Decoder	Display the real television pictures (through CA system). Including program numbers, program names, provider information, video & audio PIDs
TR101290 Monitor	TR101 290 three levels real time monitor
Base Information	Count the PIDs percent according to the type of the streams. Videos, Audios, PSI/SI, Null Packages
PID List	Display all the PIDs in current stream
Program Information	The detail info about a program if it isn't be encrypted. The video resolutions and audio compress rate.
PCR Monitor	Calculate PCR interval and PCR accuracy
PSI/SI List	Display the PSI/SI info by tree view. Including PAT,PMT,CAT,(NIT,SDT,RST,TDT,EIT options)

# TV Analyzer

Program Info	EPG
PID Capture	Capture a specified PID by its type: Video, Audio, PSI(PAT,PMT,NIT,TDT,RST,SDT,EIT) etc. And display the data in HEX format
Transport Stream Record and Replay	8 GB disk for TS record
<b>Interface</b>	
RF Input	75 Ω F
<b>HDMI Output</b>	
USB	1 USB 2.0
LAN	1 10/100 M
CAM	1 PCMCIA
TS-ASI Input/Output	2 75 Ω BNC
DC Supply Input	12 V / 5 A
GPS Input	SMA
<b>General</b>	
Display	7 inches TFT LCD 800 × 480 pixels
AC/DC Adapter	AC 100 - 240 V/50-60 Hz DC 12 V/5 A
Battery	Li-ion, 7.4 V/13 Ah
Charge Time	around 5 Hours
Working Time	>4 Hours
Remote Feeding	5/13/15/18/21 V, Max. 5 W
22 kHz Control Signals	DiSEqC 1.2 and SaTCR
Dimension (W×H×L)	245 * 194 * 105mm
Weight	around 2.8 kg
Working Temperature	-10 ~ +50C
Storage Temperature	-20 ~ +70 C

## Application

© HFC network test and analyze.