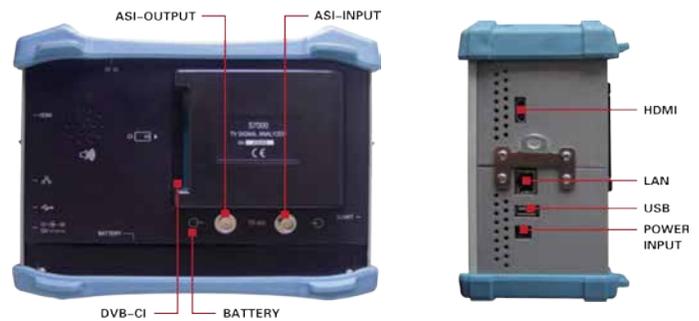
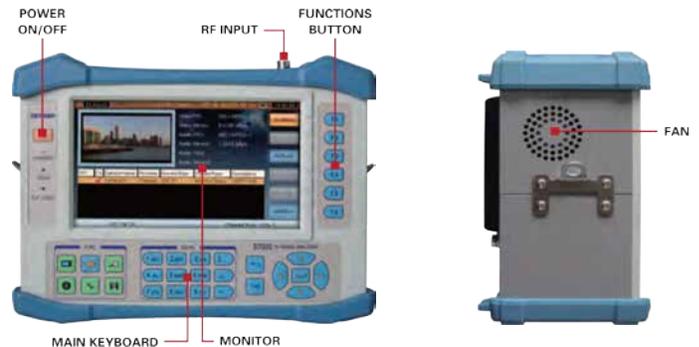


S7000 TV & Satellite Analyzer

Key Benefits

- 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-4 and H.264 for 1080i, 720p and 576i, support PAL/NTSC/SECAM color system
- Support SD&HD Video format
- DVB-CI 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.
- Working time > 5 hours (battery)



	S7000	S7000L
Analog TV, FM	■	■
DVB-C	■	■
DVB-T	■	■
DVB-S/S2	■	■
DVB-T2	□	×
DTMB	□	×
CI Module	□	×
ASI Output/Input	■	×
TS Analyzer Module	□	□
IPTV	□	□

TV Monitoring

S7000 provides analog and digital TV monitoring. It supports video decoding standards with DSP Technology: MPEG-2, MPEG-4 and H.264 for 1080i, 720p and 576i, and PAL/NTSC/SECAM color system. It also supports SD&HD video format and CAM module (Conditional Access) for encrypted channels.



MPEG4 HD for 1080i Decode

Simple and user friendly GUI

The S7000 has a familiar windows style main menu, shortening the learning curve for even the novice users. It is very easy to operate the analyzer with navigation keyboard, even without the manual.



TV Main Menu



Satellite Main Menu

Spectrum Measurement

The S7000 has a comprehensive spectrum analysis function. The sweep span covers TV& Broadcasting signal(5-1050 MHz) and Satellite IF signal (950-2150MHz).



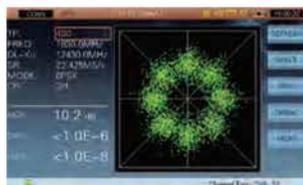
TV Signal Sweep



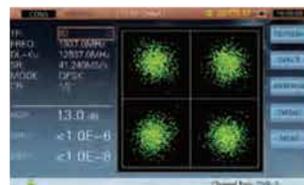
Satellite Signal Sweep

DVB-S/S2 Signal Analysis

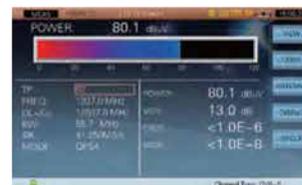
S7000 supports DVB-S/S2 standard and provides Power level, MER, BER, constellation measurement.



DVB-S2 Constellation



DVB-S Constellation



DVB-S/S2 Signal Measurement



Display Max. 12 Transponder Signals' quality to Align DishAntenna

DVB-T/T2 Signal Analysis



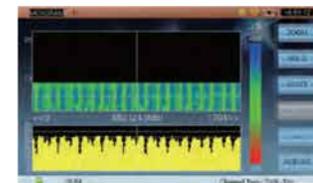
DVB-T signal measurement



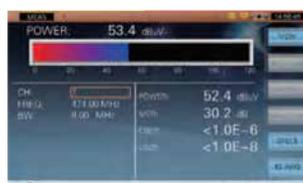
DVB-T constellation



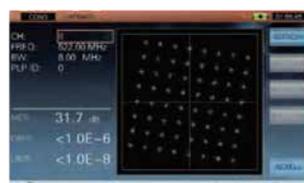
DVB-T Echo pattern for locating SFN interference



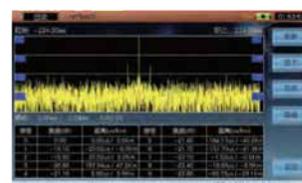
DVB-T MER versus carriers



DVB-T2 signal measurement



DVB-T2 constellation



DVB-T2 Echo pattern for locating SFN interference

DVB-C Signal Analysis

S7000 supports J83 A/B/C/D standard and provides Power level, MER, BER, constellation measurement. The EVS tool is helpful to find the interference signal under the QAM mask.



QAM signal quality measurement



QAM constellation measurement



8VSB signal analysis



MPEG4 HD for 1080i Decode

Remote Feeding and Control Signal Setting

S7000 provides feeding power 5/13/15/18/24V and Max. power is 5W. The 22 kHz control signals is compatible with DiSeqC 1.2 and SaTCR.

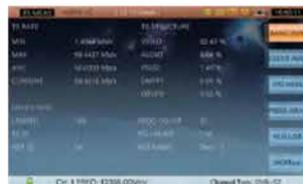


TS Analysis and Monitor

S7000 is a handheld TS analyzer. It provides TR101 290 3 level monitoring and list PSI/SI and program PID of transport stream. S7000 also lists the details of all programs running in a TV network or a transponder. The TS is from RF signal or TS-ASI input. S7000 has 8GB hard disk to save TS file and can replay and analysis TS file.



Programs Decode Monitoring and List



Basic Information Of TS



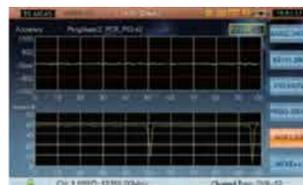
TR101 290 Three Level Monitoring



TR101 290 Monitoring Error Event List



PCR Interval and PCR Accuracy Monitoring



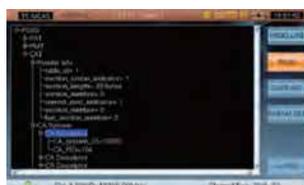
Program Information



PID List



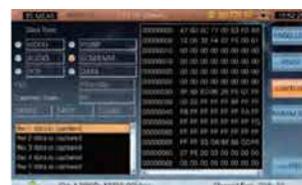
Limit Settings for TR101 290 Monitoring



PSI/SI Tree List



EPG for a Transponder or TV System



PID Capture

Specifications

Spectrum Analysis	
Frequency Range	5 MHz ~ 1050 MHz (TV), 950 MHz ~ 2150 MHz (Satellite)
Frequency Span	0 ~ 1045MHz(TV), full/600/300/200/100/50/20/10MHz (Satellite)
Frequency Step	10 kHz (TV), 1 MHz (Satellite)
RBW	3 MHz (TV) 1 MHz, 3 MHz Auto Select (Satellite)
Level Range	10 dB μ V ~ 120 dB μ V (TV) 30 dB μ V ~ 120 dB μ V (Satellite)
Level Accuracy	\pm 1.5dB
Detection Types	Peak, sample, AVG (TV)
Reference Level	30 dB μ V ~ 120 dB μ V
Markers	2 (TV) 1 (Satellite)
Analogue TV Measurement	
Standards	B/G, I, D/K, L/L', M/N
Colour Standards	PAL, SECAM, NTSC
Frequency Step	10 kHz
Hum Measurement	1% ~ 15%
C/N	> 50dB
Level Measurement Range	30 dB μ V ~ 120 dB μ V
Accuracy Of Measurements	\pm 1.5dB
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 μ V ~ 110 dB μ V
Level Resolution	0.1 dB
Power Level Accuracy	\pm 2.0 dB (C/N > 20 dB)
MER Measurement	~40 dB
MER Accuracy	\pm 2.0 dB
BER	1E-3 ~ 1E-9
Constellation	√
DVB-T/H Measurement	
Modulation Type	QPSK, 16 QAM, 64 QAM
Bandwidth	6MHz, 7 MHz, 8 MHz
Power Level Range	25 dB μ V ~ 110 dB μ V
Level Resolution	0.1 dB
Power Level Accuracy	\pm 2.0dB (C/N >20dB)
MER Measurement	> 30 dB
MER Accuracy	\pm 2.0 dB
CBER/VBER	√
Constellation	√
MER Versus Carriers	√
Echo Pattern	√

DVB-T2 Measurement	
Modulation Type	QPSK, 16 QAM, 64 QAM, 256QAM
Bandwidth	5MHz, 6MHz, 7MHz, 8MHz
Power Level Range	25 dB μ V ~ 110dB μ V
Level Resolution	0.1dB
Power Level Accuracy	\pm 2.0 dB(C/N >20 dB)
MER Measurement	>32 dB
MER Accuracy	\pm 2.0 dB
CBER/LBER	√
Constellation	√
Echo Pattern	√
ATSC Measurement	
Modulation Type	8 VSB
Power Level Range	25 dB μ V ~ 110 dB μ V
Level Resolution	0.1 dB
Power Level Accuracy	\pm 2.0 dB(C/N >20 dB)
MER Measurement	~40 dB
MER Accuracy	\pm 2.0 dB
BER	√
Constellation	√
DTMB Measurement	
Carriers	C=1, 3780
Power Level Range	25 dB μ V ~ 110 dB μ V
Level Resolution	0.1 dB
Power Level Accuracy	\pm 2.0 dB (C/N >20dB)
MER Measurement	>30 dB
MER Accuracy	\pm 2.0 dB
BER	√
Constellation	√
Echo Pattern	√
DVB-S/S2 Measurement	
Modulation Type	QPSK, 8PSK
Symbol Rate	2 - 45 MS/s (DVB-S). 1 - 45 MS/s (QPSK DVB-S2). - 45 MS/s (8PSK DVB-S2)
Power Level Range	40 - 110 dB μ V
Level Resolution	0.1 dB
Power Level Accuracy	\pm 2.0 dB (C/N>20dB)
MER Measurement	> 25 dB
MER Accuracy	\pm 2.0 dB
BER	DVB-S (CBER/VBER), DVB-S2 (CBER/LBER)
Constellation	√
Video/Audio Decoder	
Video	MPEG 2/4, H.264
Video Resolution	1080i, 720p and 576i
Audio	MPEG1/2, AAC
CAM Module	EN50221 (DVB-CI) PCMCIA interface
TS-ASI Input And Output	√
TS Record	√

TS Analyzer	
Stander Interface	En 50083-9(DVB SPI, ASI)
DVB-ASI Interface	75 Ω 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%
Realtime Decoder	Display the real television pictures (through CA system). Including program numbers, program names, provider information, video & audio PIDs
3 Level Monitoring	TRT101 290 3 level monitor the transmission stream documents which meets the DVB standard, and save the error record to database for future checking (excluding STD-BUFFER analysis).
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 infos 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 infos by tree view. Including PAT,PMT,CAT,(NIT,SDT,RST,TDT,EIT options)
Program Info	EPG
PID Capture	Capture a specified PID by it's type: Video, Audio, PSI(PAT, PM, NIT, TDT, RST, SDT, EIT) etc. And display the data in HEX format
Transport Stream Record and Replay	<2 GB (udisk) for TS record and TS Replay
Interface	
RF Input	75 Ω F
HDMI Output	1
USB	1 USB 2.0
LAN	1 10/100 M
DVB-CI	1 PCMCIA
TS-ASI Input/Output	2 75 Ω BNC
DC Supply Input	12 V / 5 A
GPS Input	USB
General	
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	>5 Hours
Remote Feeding	5/13/15/18/24 V, Max. 5 W
22 kHz Control Signals	DiSEqC 1.2 and SaTCR
Dimension (W×H×L)	245 mm × 194 mm × 105mm
Weight	Around 2.8 kg
Working Temperature	-10 ~ +50 °C
Storage Temperature	-20 ~ +70 °C

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