

DEVISER

S7000 TV & Satellite Analyzer

Main Features

- 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
- DVB-CI module (Conditional Access) for encrypted channels
- TS-ASI input and output
- TS record and TS replay
- 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)



ALL IN ONE

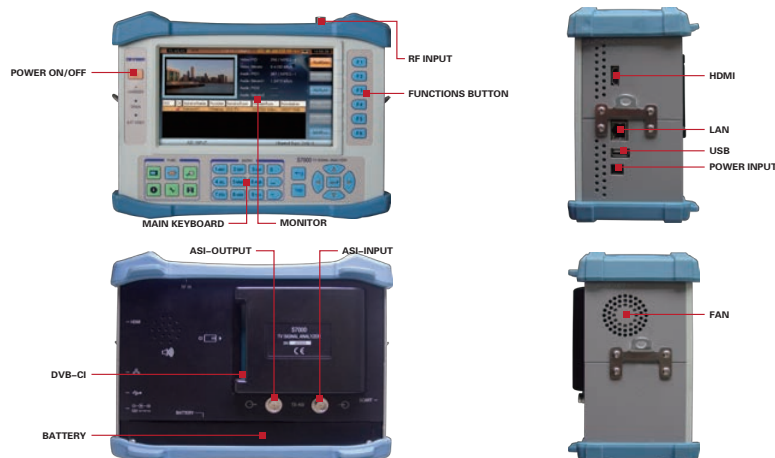
- Digital TV Analyzer : DVB-C/T/H/T2/S/S2
- Video decoder: MPEG2/4/H.264, SD/HD
- Handheld TS Analyzer
- Spectrum Analyzer
- GPS

Model Guide

	S7000	S7000L
Analog TV, FM	■	■
DVB-C	■	■
DVB-T	■	■
DVB-S/S2	■	■
DVB-T2	□	×

	S7000	S7000L
DTMB	□	×
CI Module	□	×
ASI Output/Input	■	×
TS Analyzer Module	□	□
IPTV	□	□

Remark: ■ : Included □ : Software Option × : Not Available



S7000 TV & Satellite Analyzer

Specifications

Spectrum Analyzer	
Frequency Range	5 MHz ~ 1050 MHz (TV), 950 MHz ~ 2150 MHz (Satellite)
Frequency Span	1 MHz ~ 1045 MHz (TV), 10 MHz ~ 1200 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 Auto Select (Satellite)
Level Measurement Range	10 dBμV ~ 120 dBμV (TV) 30 dBμV ~ 120 dBμV (Satellite)
Accuracy Of Measurements	<1.5 dB
Measurement Detector	Peak, sample, AVG (TV), No Select for Satellite
Reference Level	30 dBμV ~ 120 dBμV
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	> 50dB
C/N	> 50dB
Level Measurement Range	30 dBμV ~ 120 dBμV
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 dBμV ~ 110 dBμV
Level Resolution	0.1 dB
Power Level Accuracy	±1.5 dB (C/N > 20 dB)
MER Measurement	-40 dB
MER Accuracy	±2.0 dB
BER	1E-3 ~ 1E-9
Constellation	√
DVB-T/H Measurement	
Modulation Type	QPSK, 16 QAM, 64 QAM
Power Level Range	25 dBμV ~ 110 dBμV
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	√
DVB-T2 Measurement	
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	√
ATSC Measurement	
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	√
DTMB Measurement	
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	√
DVB-S/S2 Measurement	
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 dBμV
Level Resolution	0.1 dB
Power Level Accuracy	±1.5 dB (C/N > 20dB)
MER Measurement	> 25 dB
MER Accuracy	±2.0 dB
BER	DVB-S (CBER/VBER) DVB-S2 (CBER/LBER)
Constellation	√
Video/Audio Decoder	
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	√
TS Record	√
TS Analyzer	
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
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 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,PMT,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	
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