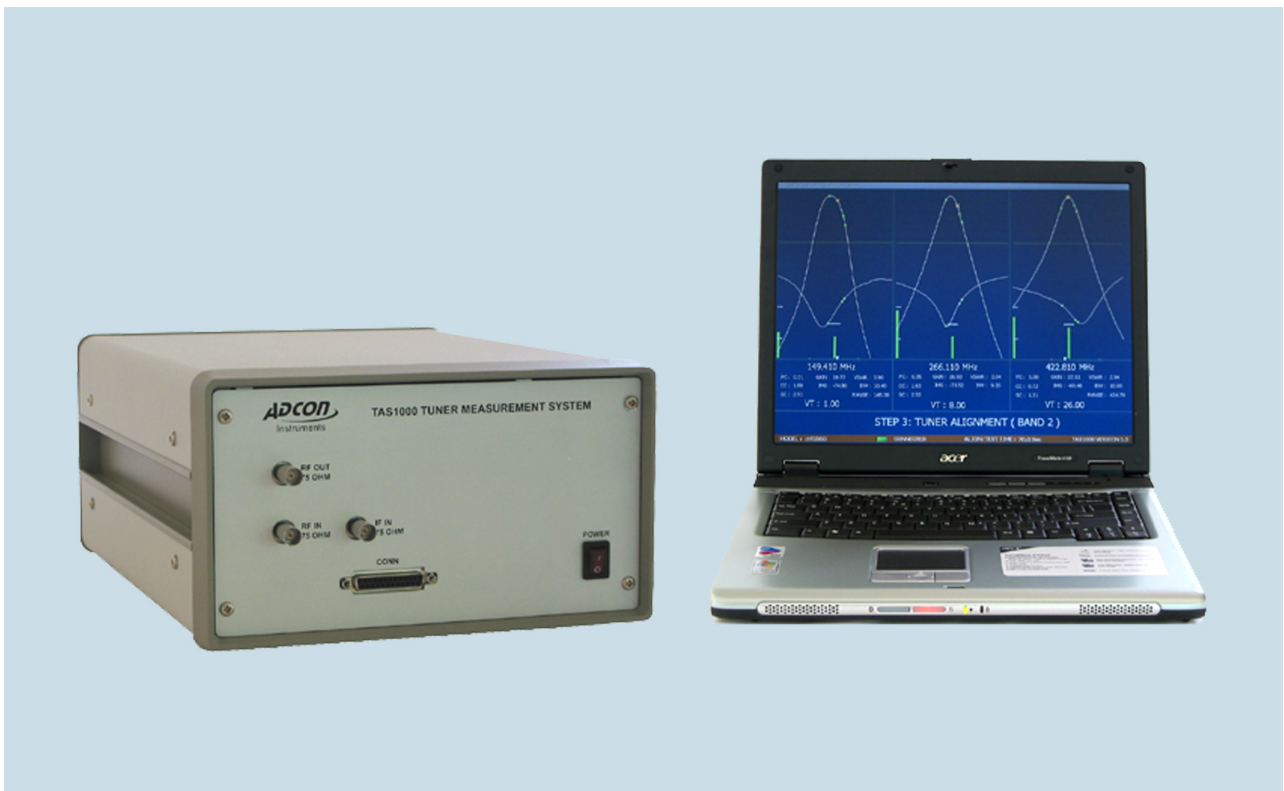


TAS1000

TV Tuner Measuring System

电视调谐器测量系统

The TAS1000 is a complete measuring system for adjusting and testing TV tuners. The TAS1000 is designed with knowledge in tuner production needs and advances in technology. It enhances your competitive position with substantial saving on production lines at lower cost.



A Singapore's Product

Descriptions:

The TAS1000 is a complete measuring system for adjusting and testing TV tuners. All hardware and software functions required are built-in. It is easy to use and operate. The settings are edited with well-organized and user-friendly graphical interface menus. Settings are saved into configuration file and can be recalled when production model changes.

User can create many adjustment and testing steps. During each adjustment step, the IF and VSWR response curves from 3 channels are displayed simultaneously with measured values and judgments. Failures are shown in red color getting the worker's attention.

An automatic testing step after adjustment can ensure the tuner is of highest quality. It takes 10 seconds to test 25 channels.

The TAS1000 supports a wide range of tuner designs. Our engineers are ready to provide support when new tuners and tuner technologies are introduced. The TAS1000 can be integrated easily into production line as all the power and control lines are provided.

Data can be collected during adjustment and testing steps. The data is presented in easy-to-read distribution charts and printouts. They are useful for monitoring quality, training new staff and evaluating new tuner models.

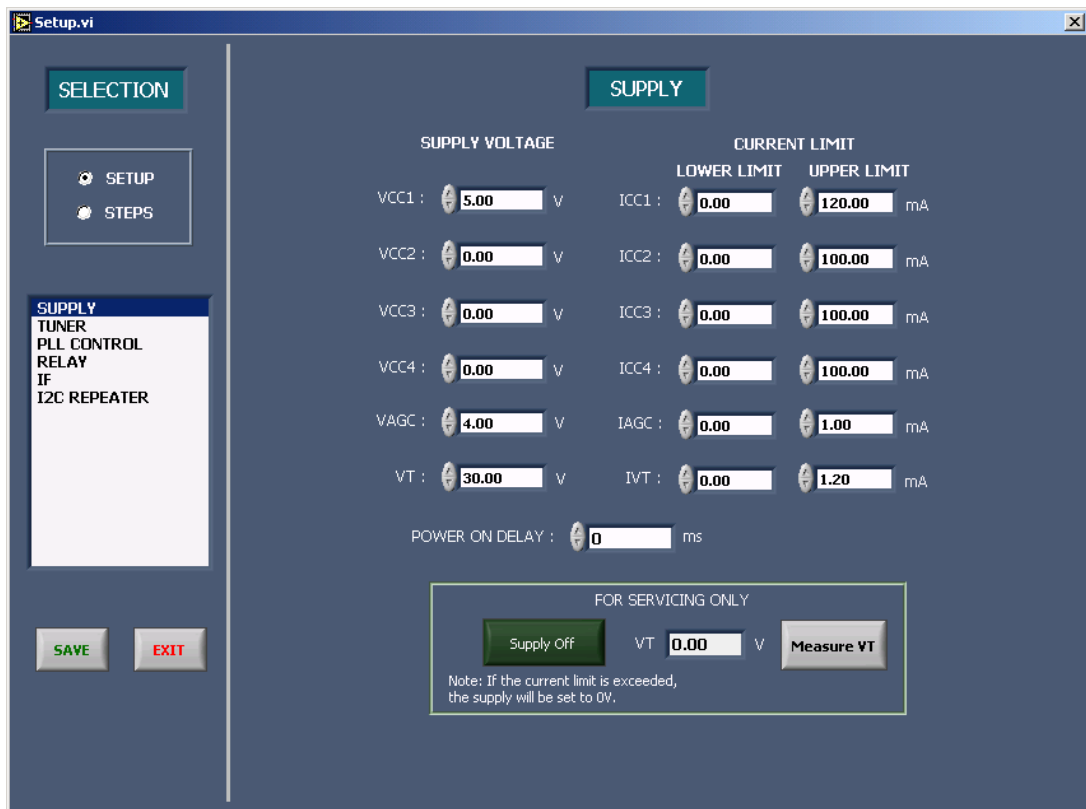
Features:

- DDS and PLL control for accurate and stable signal output
- 1 MHz to 1.2 GHz Frequency Range
- Support all TV IF Standards
- Support Digital tuners, I²C tuners and Non-PLL tuners
- Real-time display of IF and VSWR response curves from 3 channels during each adjustment step with measured values and judgments
- Programmable DC Power Supplies, I²C bus and Control lines
- Measure all major tuner parameters
- Can correlate readings between stations with reference tuner
- Modular construction for easy maintenance with diagnostic features
- Easy to set-up and use
- Easy-to-read presentation of data collected during adjustment and testing steps

User Friendly Software:



This is the Ready menu. It has much useful information at a glance.

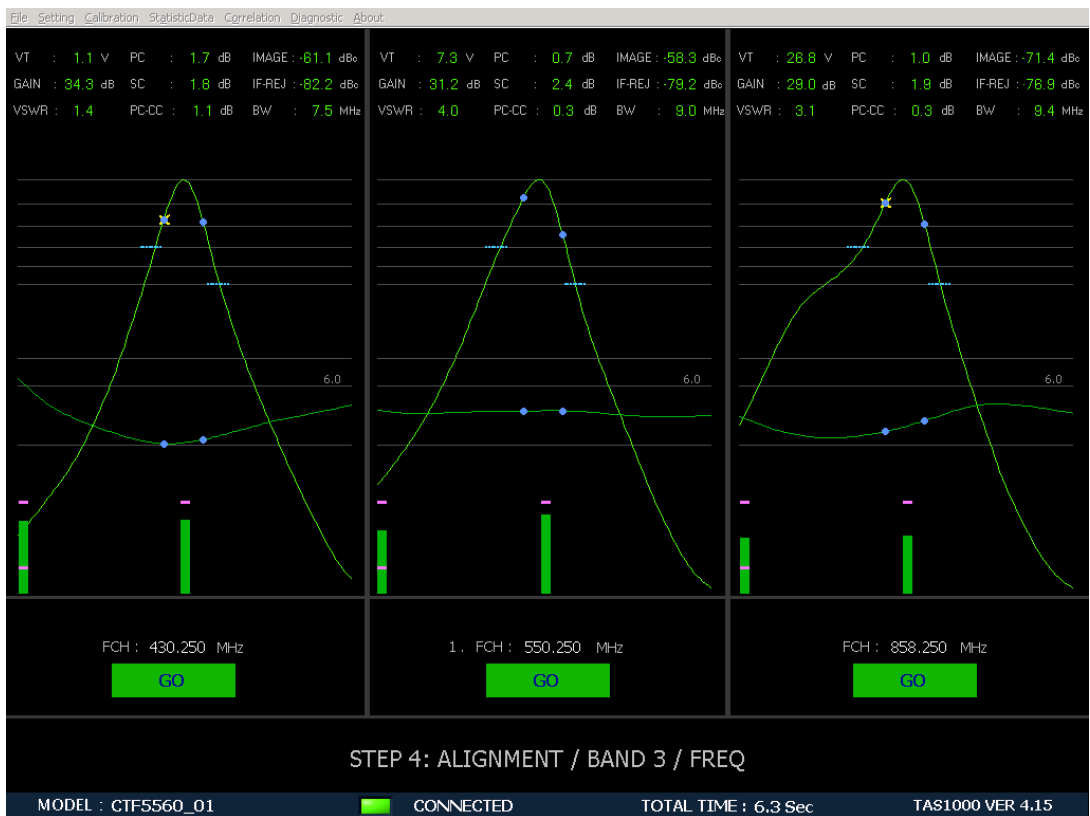


This is the Set-up menu. It is well organized and easy to use.

User Friendly Software:



This is the Steps menu. It is easy to create and edit the adjustment or testing step.



This is a typical adjustment step. It shows the IF & VSWR response curves, Gain & Image Rejection bars and selected parameter readings in high speed.

TAS1000 Specifications

RF Signal Output Section	
Frequency Range	1 MHz to 1.2 GHz
Resolution	10 kHz
Stability	100 ppm
Impedance	75 Ω
Output Level	- 5 to - 75 dBm in 1 dB step
Accuracy	\pm 0.5 dB
Harmonics	- 45 dBc

RF Signal Input Section	
Frequency Range	1 MHz to 1.2 GHz
Impedance	75 Ω
Input Range	- 15 to - 75 dBm

IF Signal Input Section	
Frequency range	10 MHz to 70 MHz
Impedance	75 Ω
Input Level Range	- 7 to -70 dBm
Attenuator	0 to 31 dB in 1 dB step

Tuner Control Section	
Voltage	Range
VCC1 to VCC4	0 to 7.5 V, max 400 mA each
VAGC	0 to 7.5 V, max 20 mA
VT	0 to 30 V, max 10 mA
Fixed Voltage	12 V, max 400 mA

Current Measurement	
I-VCC1 to I-VCC4	0 to 400 mA, 12-bit resolution
I-AGC	0 to 20 mA, 12-bit resolution
I-VT	0 to 10 mA, 12-bit resolution

Others	
VT Input	0 to 30 V
Jig Control Button	4 lines
Open Collector Relay Driver	6 lines
Control Bus	I ² C Bus

IF Adjustment Step	
Response Curves	IF & VSWR curves with IF & RF markers for 3 channels
Bar Indicators	Power Gain and Image Rejection for each channel
Measured Parameters	Power Gain, PC Tilt, CC Tilt, SC Tilt, IF4 Tilt, PC-CC Tilt, VSWR, -3dB BW, N \pm 1, IF Rejection, Image Rejection, Tuning Voltage and Channel Frequency
Tuning Mode	PLL, VT control or Frequency control
Sweep Width	5 MHz to 60 MHz
RF Marker	5 per step
IF Marker	4 per channel
Limit Line	PC Tilt, SC Tilt, IF4 Tilt, Power Gain, Image Rejection, VSWR
Parameter Display	User select display and position

Trap Adjustment Step	
Display	Single Curve with 8 markers
Measurement	Gain and level at selected markers

TAS1000 Specifications

Automatic Testing Step	
Range Test	Measure LO coverage
IF Band-Pass Test	Measure all standard parameters of the IF Band-Pass
AGC Reduction Test	Measure the change in IF level when VAGC is changed
PLL Lock Time Test	Measure the PLL lock time between 2 channels
20dB Gain Reduction	Measure the IF Tilts after the initial IF level is restored by VAGC when RF-IN is increased by 20dB
B+ Drift	Measure the change in IF level and frequency when B+ is momentarily reduced for a very short time

Mechanical Data	
Dimension in mm	260 W x 150 H x 365 D
Weight	7 kg
AC Input	110V, 115V and 230V (50/60 Hz),
Power Requirement	70W max
Operating temperature	5 to 40°C
Humidity	30% to 85%

Standard Accessories	
RF Cable	3x BNC-BNC, 75Ω
Power Cable	1x
Tuner Control Cable	1x DSub-25P
Ethernet Cable	1x
Software	1x CD

Optional Accessories	
VSWR Bridge	P/N: VSWR1000-75

System Requirements	
PC or Notebook	Pentium 4 and above with LAN port
Operating System	Win2000, XP, Win Vista

Please contact us if you need a demo or more information.

Designed and manufactured by:

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