

## AUDIO ANALYZERS

### PROKIT 30 and PROKIT CI



Prokit 30 and Prokit CI (Black Box version) include:

- DSP30 or DSPCIW digital real time analyzer
- RS232 interface plus software
- TEF04 measurement microphone
- PN3B pink noise generator with sine wave
- OPT RT60
- 48 non volatile memories

<http://www.gold-line.com/prokit.htm>

**NEW**

### Model 30MP Microprocessor Based Real Time Analyzer



Features include:

- 1, 2 and 3dB Scales
- 6 non volatile memories
- Large LED display of SPL in Flat, A and C weighting.
- Optional RS232 port to establish computer files and for printed reports.
- Balanced line and mic inputs.
- Supplied with model MK8A microphone.

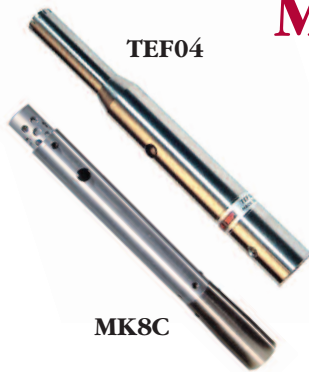
<http://www.gold-line.com/30mp.htm>

**NEW**

### MEASURE STI, CIS SPEECH INTELLIGIBILITY

**Model DSP 30** plus OPT STICis™ accurately measures Speech Intelligibility. Making use of a proprietary STI-PA Test signal, developed for Gold Line by TNO Laboratories in the Netherlands, the model DSP30 measures STI, CIS to IEC standards. See white papers on <http://www.gold-line.com/dspsti.htm>

## MICROPHONES <http://www.gold-line.com/microp.htm>



TEF04

MK8C

**MK8** Omni Electret microphone for model 30M8, SPL120RM, SPL 120L, SLC1

**MK8A** Omni Electret microphone for models DSP30, DSPCI and 30MP

**MK8C** Cardioid Electret MIC 12 to 48 volts phantom power

**TEF04** Stainless steel omni measurement mic for PROKITS and TEF

**MK160** Electret mic for model DSP30A (160dB for autosound)

**CBM 1** Boundary microphone



CBM 1

## SPEECH INTELLIGIBILITY/PRIVACY MEASUREMENT SYSTEMS

<http://www.gold-line.com/dspsti.htm>



**DSP2B/DSP2BP - DSP2B**  
Dedicated Speech Intelligibility Meter  
Measures Sound Pressure Level and  
Speech Intelligibility Index



**DSP30B/DSP30BP/DSPCIB/BP -**  
Full Function Stand Alone Audio  
Spectrum Analyzers Measure Sound  
Level and Speech Intelligibility Index



**PORTABLE STI-PA TEST TONE  
GENERATOR TALKBOX**

Signal Generator - An integral part of  
the Speech Analysis System - used with  
either DSP2B/BP, DSP30B/BP or  
DSPCIB/BP

## HAND HELD 10 BAND AUDIO SPECTRUM ANALYZERS

**GENERAL:** octave band (10 bands)  
from 32 Hz to 16KHz on ISO  
centers. For any function where  
control or analysis of sound is  
important.

**Model ASA 10-B:** A 10 Band  
analyzer with SPL sound pressure  
level measurements in "A" and "C"  
weighting. The ASA10 B is small,  
battery operated and rugged. It is  
easy to carry and easy to use. Does  
not include pink noise.

[http://www.gold-line.com/  
analyzer.htm](http://www.gold-line.com/analyzer.htm)



## Model FD-23 FEEDBACK DETECTOR

A portable battery operated  
feedback detector with  
1/3 octave filters. The fast and  
easy way to ring out any  
system.

[http://www.gold-line.com/  
fd23.htm](http://www.gold-line.com/fd23.htm)





# AUDIO SPECTRUM ANALYZERS

<http://www.gold-line.com/analyzer.htm>



DSP30



DSPCIW

The **DSP30** type analyzers incorporate software controlled filters that maintain their accuracy even when making measurements over wide dynamic ranges. These analyzers measure response levels from 31dB to 123dB and can be calibrated to 160dB with optional microphone.

Model **DSPCIW** is the "Black Box version" of the DSP30. Both analyzers share the same software and perform identically. The only difference is the keypad and display allowing the DSP 30 to function independent of a computer.

## STANDARD FEATURES SUPPLIED WITH both DSP30 and DSPCIW Analyzers

- An RS232 Port including an RS232 USB adapter cable provides two-way communication with IBM compatible computers and communicates with Macintosh with Virtual PC.
- Multiplot display. Shows 6 different response curves at the same time.
- An 85dB window not limited by the display
- Time Averaging to normalize readings and stabilize pink noise compensating for random variables.
- Scales from 1/4 to 5dB per step
- Microphone: Supplied with low impedance (600 ohm) electret condenser type.
- Filters: Keypad selectable either highest ANSI standard (triple tuned) or custom notching filters.
- Memories: 60 non volatile memories per option
- Sound Pressure Levels & Weighted Curves: Flat, A, C, or User designated weighting.
- Sum Mode: Spectral response readings can be summed and averaged.
- Subtract Mode: A memory can be subtracted from another memory.

## OPTIONAL EXPANSION FEATURES WHICH CAN BE ADDED AT ANY TIME

**OPT STA:** Optional Speaker Timing Analysis (Requires OPT RT60 and PN3B) software to set the electrical delay for Timing loudspeakers.

**OPT DAS:** Optional Distortion Analysis System measures THD.

**OPT RT60:** Measures RT60 ( includes Gate, Port, and Cable)

**OPT DOSE:** Optional software to provide dosimeter measurements plus octave band SPL measurements.

**OPT 106:** 1/6 th octave analysis

**OPT 112:** 1/12th octave analysis from 25Hz to 799Hz.

**OPT NC:** Optional noise criteria measurements.

**OPT IMP:** measures impedance (Requires sine wave source)

## OPT STICis™ - Measures Speech Intelligibility with DSP30 and DSPCIW analyzers.

The Speech Intelligibility option provides the STI test signals and software needed to conduct measurements in accordance with IEC standard 60849.

**TALKBOX:** Contains Test CD and required software.

Plus a portable CD player and a microphone holder to insert STICis™ Signal into voice evacuation and building control rooms.

## STAND ALONE REVERBERATION METER

### MODEL GL60 REVERB TIME METER

A stand alone RT60 meter with built-in microphone.

**FREQUENCIES:** Measurements are made in six different frequencies: 125, 250, 500, 1000, 2000, and 4000 hertz.

**DISPLAY:** Readings are provided on a seven seg LCD display in seconds from .1 to 10 seconds in 100ths of a second.

**POWER:** powered by two 9 volt batteries

<http://www.gold-line.com/gl60.htm>



**MORE POWER  
LESS SIZE**

# EZTUNE

<http://www.gold-line.com/t-tefpre.htm>

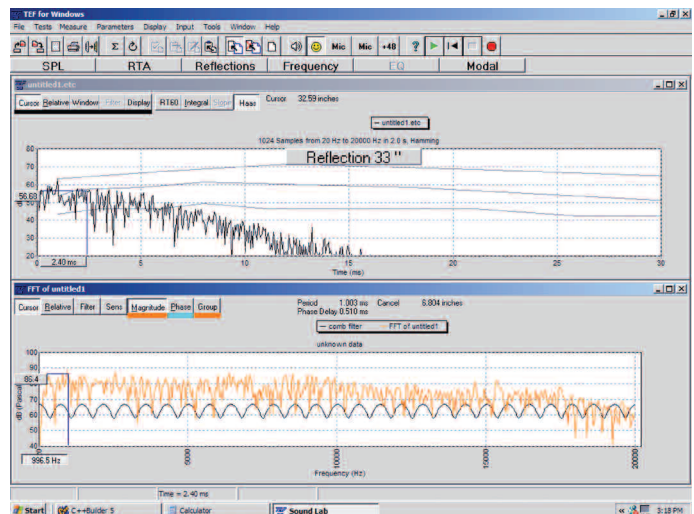
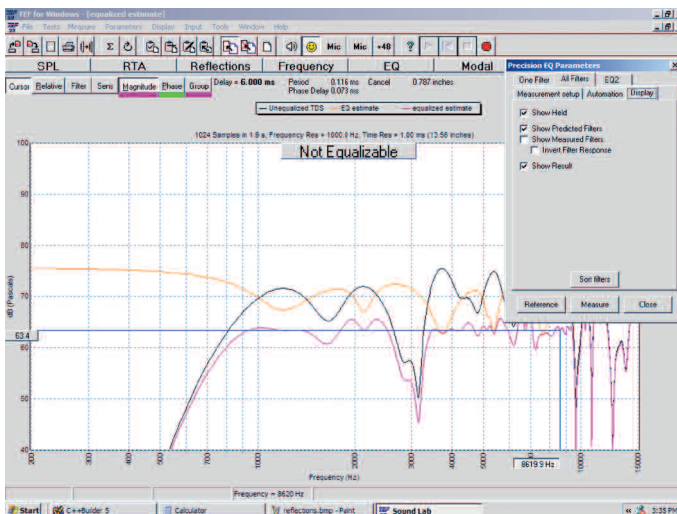
## NEW TEF25 ANALYSIS SYSTEM Sound Solutions for Acoustical Problems

The TEF25 USB Preamplifier along with Sound Lab software and your PC are all that you need to make TEF measurements.

### A Faster Way To Make Measurements



Need a faster way to check for common problems in small acoustical spaces? Need to do calibration for surround sound? EZTUNE combines features from several existing TEF programs, and then adds a layer of automation to speed up typical tasks.



### Some TEF EZTUNE Features

1. **Set Reference Levels.** A large SPL display shows the C weighted SPL. A colored background starts out blue, changes to Green as you approach the home theater reference level of 75dB and then turns red if you go above 76dB SPL.
2. **Measure Real Time Analysis.** A powerful RTA module allows you to choose resolutions from 1 octave to 1/24th of an octave. Select various decay speeds, or use the THX recommended 20 second time averaging for best accuracy with pink noise. Display NC values in octave band mode.
3. **Measure Reflections.** While some of our competitors make pretty pictures and claim that they have time domain capability, EZTune utilizes TDS to resolve events down to 26 microseconds. Clicking on the Reflections button automatically finds the time of arrival for the direct energy, then shows you which peaks are significant specular reflections. Easy to read graphics show the time of arrival for each reflection along with its path length. An overlay mode makes it easy to see when acoustical treatments have successfully absorbed a reflection.
4. **Measure Frequency Response.** By pressing the Frequency Response button, the system will automatically identify the location of the microphone in the room, and then calculate the frequency response, phase and comb filters caused by specific reflections.
5. **Predict Optimal EQ.** By combining powerful aspects of our TEF Precision Equalization software (PEQ) with the automation in EZTune, we have developed the fastest, easiest way to measure a sound system and then to choose optimal settings for equalization. The display shows both the frequency response, and a list of center frequencies for filters, filter Q and the recommended amount of cut or boost at each frequency.