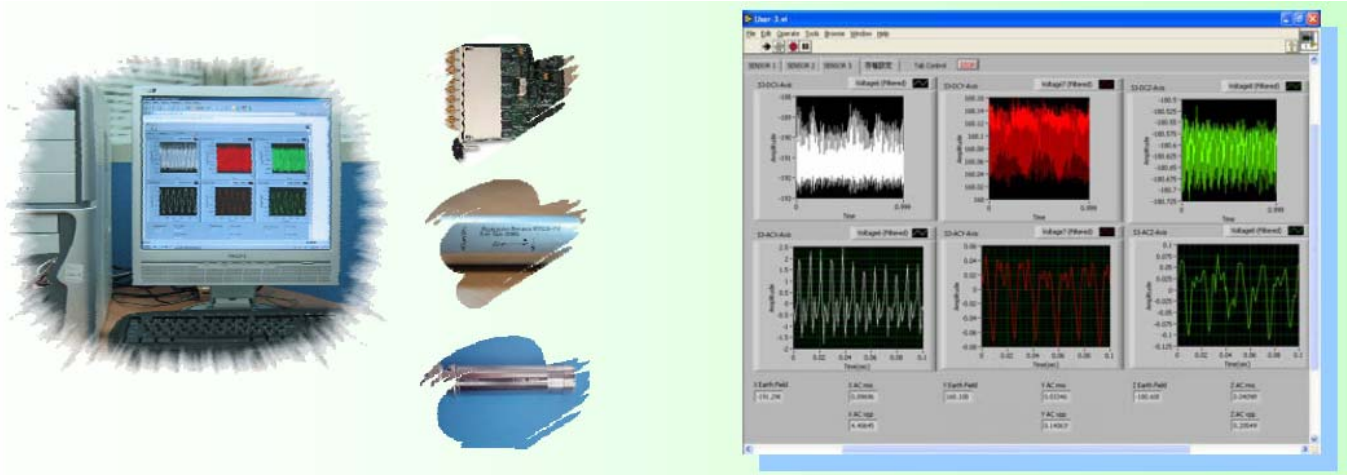


## Multi-Purpose Environmental Measurement and Monitoring System

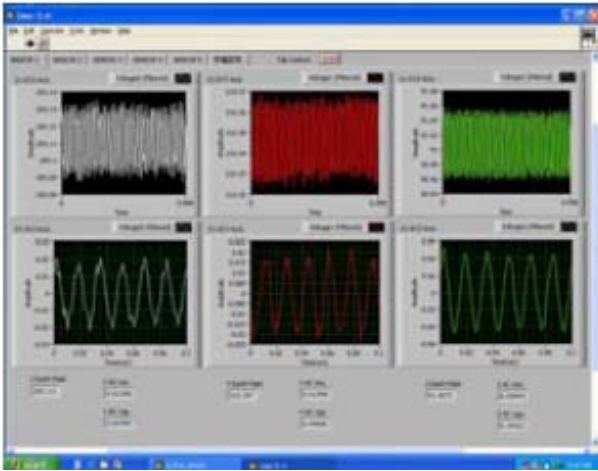


### Description

Multi-Purpose Environmental Measurement and Monitoring System is used Taiwan Environment Control Instrument Technology Co., LTD ( TECIT ) developed measure software combined with different range detector. It can provide the environment magnetic field, vibration and acoustic multi-measurement choices. It can be application widely. According to the location requirement, Taiwan Environment Control Instrument Technology Co., LTD ( TECIT ) provides Multi-Purpose Environmental Measurement and Monitoring System, carry measure system and far-end monitor system.

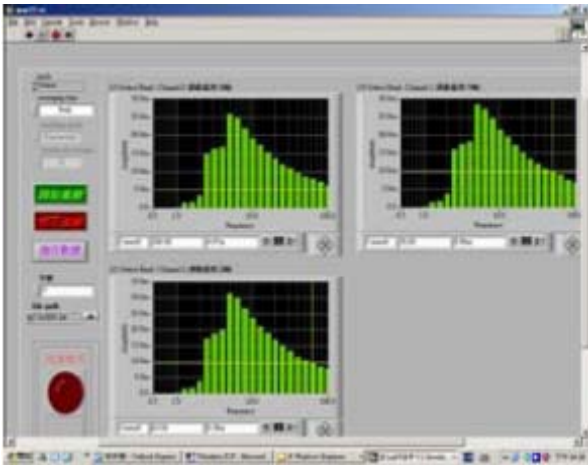
This system was designed by multi-function. It can measure the magnetic field, vibration and acoustic by single machine. The major applications are FAB, laboratory and variously particular environment measurement. It can also apply in far-end monitor system. It was a measure system which was motive, high efficiency and high stability. The system was design with 24 bits resolution analog-digital chip, therefore, It can acquire very high measure precision (  $1.2\mu\text{V}$  ). Each signal collect channel possess an Independent switch chip and it can reach the continuous measurement immediately.

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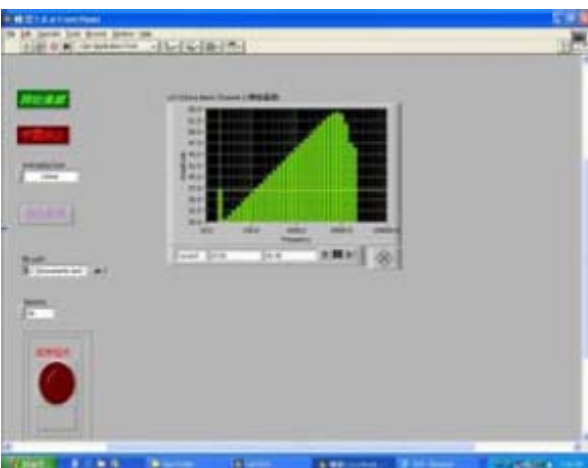
### High sensitive three axle magnetic measure facility

- Bandwidth : 0 to 1k Hz
- Measuring range :  $\pm 200 \mu\text{T}$
- Accuracy at 20°C :  $\pm 1\% \pm 0.5\mu\text{T}$
- Orthogonality of measure directions :  $\pm 1^\circ$
- Noise :  $< 0.5 \text{ nT rms or } 3\text{nT pp ( } 0.1\text{Hz to } 10 \text{ Hz )}$   
 Typ .  $120 \text{ pT } / \sqrt{\text{Hz}} @ 1 \text{ Hz}$
- Output Voltages :  $\pm 1\text{V} / 35 \mu\text{T}$



### Vibration accelerator

- Sensitivity :  $10 \text{ V} / \text{g}$
- Frequency Response :  $0.1 \sim 300 \text{ Hz}$
- Electrical Noise :  $0.5\mu\text{g}$



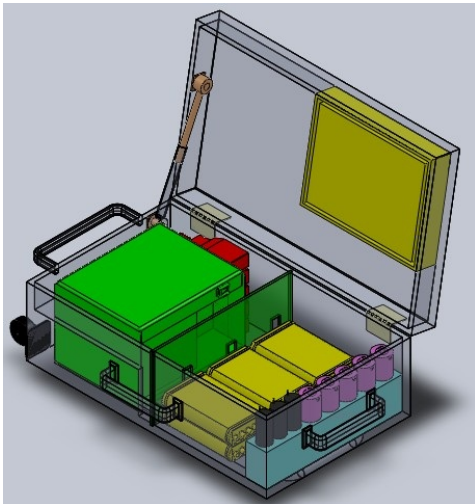
### Acoustic Microphone

- Sensitivity :  $50 \text{ mV} / \text{Pa}$
- Frequency Response :  $20 \text{ Hz} \sim 20 \text{ kHz}$
- Dynamic Range ( 3% Distortion Limit ) :  $>146 \text{ dB}$
- Cartridge Thermal Noise :  $< 16 \text{ dB(A)}$



### ER01 Multi-Function Measure System

- ✓ ER01 is suitable for long-term drops measurement and motive 3D position measurement in large space factory. It combines Taiwan Environment Control Instrument Technology Co., LTD ( TECIT ) develop immediately analyze software to display the best result efficiency.
- ✓ Application : FAB( E-Beam Write... ), Lab. ( CD-SEM Lab... ) .



### EC01 Carry-On Measure System

- ✓ EC01 is not limited to the space and position. It is easy to carry around, operate and the efficacy is stable. FAB, laboratory and special environment measure all estimate It is the basis equipment.
- ✓ Application : Indoor and outdoor any special environment and locations.



### ES01 Far-end Monitor System

- ✓ ES01 is suitable for special machines or locations for long-term or factory position environment monitor. It can control, detect data, storage, analyze and judge form far-end.
- ✓ Application : FAB、 Lab.、 EBO and so on.