

The total solution for strain measurement.

eStrain

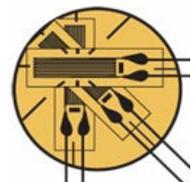


Makes accurate strain measurement easy to do :

Precise strain management is not easy. It is subject to environmental factors requiring the gauge, wire resistance and temperature be adjusted. As a result, users unfamiliar with all aspects of strain management may measure the wrong information. With eStrain, the capacity to correct for lead wire resistance, temperature effects on the wire and gauge, shunt calibration and balance functions are built into the system. Both beginners and experienced professionals can simply sets it up and eStrain provides complete, accurate results.

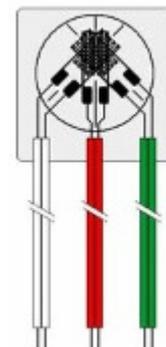
System features :

- Set up is simple and easy to use.
- Strain correction is complete, providing the most accurate measurement results.
- Simultaneous measurement of strain, full-bridge and voltage signals.
- Built in hardware filter suppresses noise interference.
- Dedicated bridge box with simple wiring and signal stability.



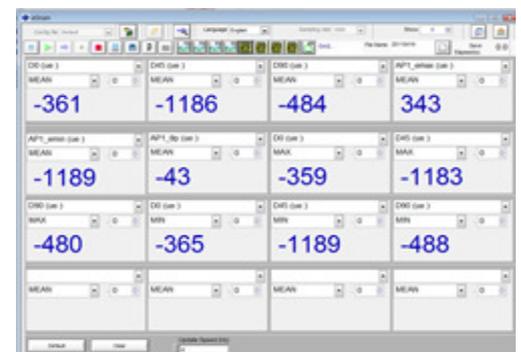
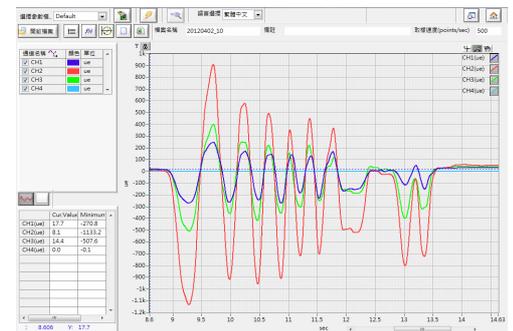
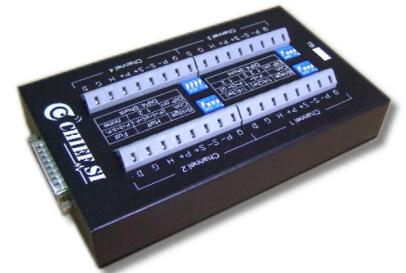
Applications :

- Material testing, mechanical testing, drop testing, and the strain of teaching.
- PCB Strain measurements, wafer strain measurements, and concrete strain measurements.
- Civil/ mechanical/ vehicle / biomedical stress measurement.
- Finite element analysis testing and validation.
- Long time stress monitoring for structures.



Specification :

Model	eStrain 4B4V / eStrain 8B8V
Input Power	100~240Vac 10A
Interface	USB 2.0
Channels	8 (4-Bridge, 4-Voltage), 16 (8-Bridge, 8-Voltage)
Bridge type	Quarter, Half, Full Bridge
Gauge Resistance	120 or 350 Ω (2-wire/3-wire)
Strain Range (ue)	1000, 2000, 5000, 10000
Voltage Range	$\pm 10V$
Low pass Filter (Hz)	1, 10, 50, 100, 500, 1000, 5000
Sampling Speed (Multiplexer)	5k , 2.5k, 2k, 1k, 500, 200, 100, 50, 20, 10, 5, 2, 1 Hz; 10s, 20s, 30s, 60s, 2min, 5min, 10min, 30min, 1hr
Data storage	Continuous, sequence, triggered, timing
Continuous Recording	Yes (Depends on Disk Space)
Large Files Analysis	Yes (>500MB)
Auto Balance Function	Yes
Shunt Cal.	Yes(Only for Quarter & Half Bridge)
Temperature Compensate	Yes, Dummy or Full Bridge
Lead wire correct	Yes
Trigger Function	Yes
Gauge parameter	GF, Gauge Resistance, Lead wire Resistance
Time Waveform Graph	Yes (4 Y-T Chart)
Meter Display	Yes (64 Self-Define Meter)
XY Graph	Yes
Waveform Zoom Function	Yes
Real time Stress Calculate	Yes(Optional)
Principal Strain Analysis	Yes (Option)
Strain Rate Analysis	Yes (Option)
Output Data format	EXCEL
Language	English, Traditional Chinese
Computer Requirements	CPU:P4, RAM:1GB, HD:1GB, USB 2.0
Monitor requirements	1280*800 resolution
Operating system	Windows XP, VISTA, WIN 7



Optional items :

Bridge Box: Chief BT120 / Chief BT350

Voltage Box: Chief VT10

Strain training Course: Chief SC01

Strain lesson plans: Chief TP01

Strain Simulator: Chief SS01

Wireless Strain Module: Chief WS01