# *The total solution for strain measurement.*
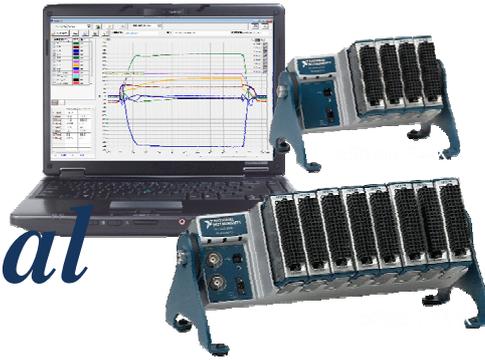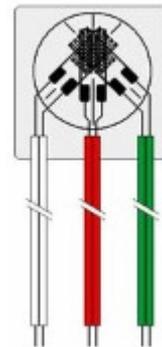
# *eStrain*
# *Professional*

## 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 it is easy to use.
- Strain correction is complete, providing the most accurate measurement results.
- Simultaneous measurement and flexible channels.
- Built in hardware filter suppresses noise interference.
- Wiring is simple and signal stability is high.
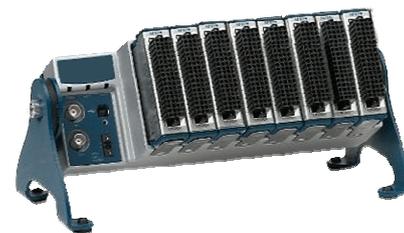- Supports IPC-9704 PCB measurement and analysis.

## 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.
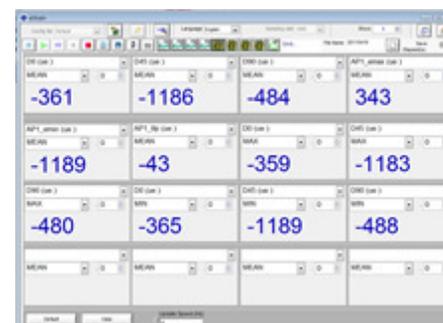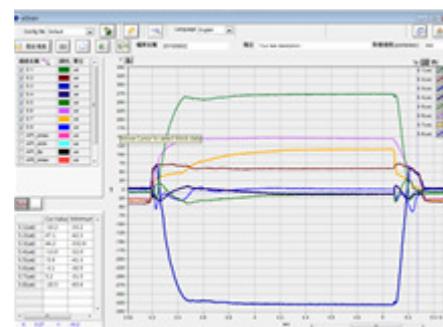- Long time stress monitoring for structures.

## Specification :

| Model | eStrain P4-X-O (Maximum 32 Channels) |
|---|---|
| | eStrain P8-X-O (Maximum 64 Channels) |
| | (up to 128 Channels with two sets) |
| | (X：Channels, O：Gauge Resistance, 120 或 350) |
| Input Power | 100~240Vac 1A |
| Interface | USB 2.0 |
| Channels | 8, 16, 24, 32, 40, 48, 56, 64 |
| Bridge type | 1/4Bridge |
| Gauge Resistance | 120 or 350 Ω (2-wire/3-wire) |
| | Specify the gauge resistance when ordering |
| Strain Range (ue) | 40000 |
| Sampling Rate(each channel) | 10k, 5k , 2.5k, 2k, 1k, 500, 200, 100 |
| Simultaneous | Yes |
| Continuous Recording | Yes (Depends on Disk Space) |
| Large Files Analysis | Yes (>500MB) |
| Auto Balance Function | Yes |
| Shunt Cal. | Yes |
| Lead wire correct | Yes |
| Temperature Compensate | Yes(Additional optional temperature Module) |
| 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 |
| Principal Strain Analysis | Yes |
| IPC-9704 Strain Rate Analysis | Yes |
| Output Data format | EXCEL / ASCII |
| 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 |

**eStrain P4-X**

**eStrain P8-X**

### 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