Ready for the future caring for the custome



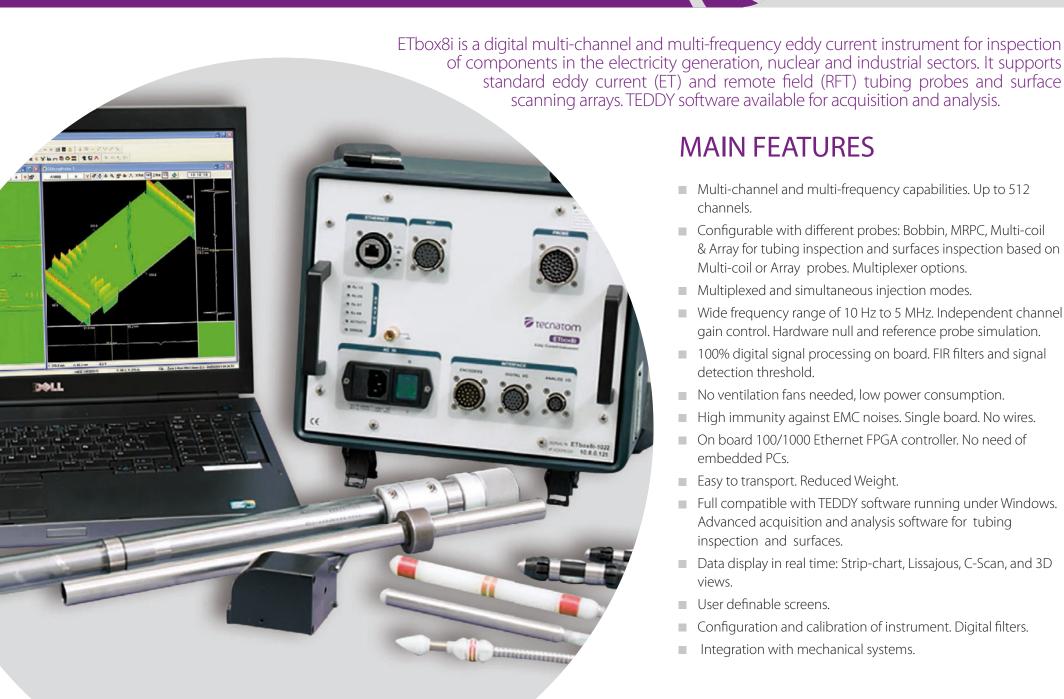
**Eddy Current Products** 

ETbox8i<sup>®</sup>
Advanced Eddy
Current Instrument

EndoMatrix (M) Sdn Bhd No. 51-5, Block G, Dataran Prima, Jalan PJU 1/37, 47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia. Phone: 03-7803 1145 | Fax: 03-9101 4814 sales@endomatrix.com.my | www.endomatrix.com.my



## ETDOX8i Advanced Eddy Current Instrument



#### MAIN FEATURES

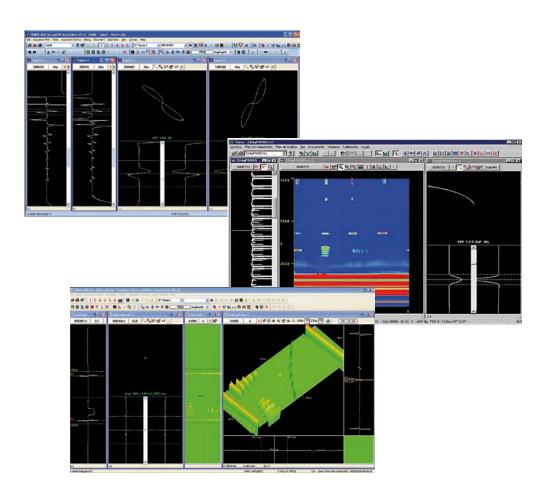
- Multi-channel and multi-frequency capabilities. Up to 512 channels.
- Configurable with different probes: Bobbin, MRPC, Multi-coil & Array for tubing inspection and surfaces inspection based on Multi-coil or Array probes. Multiplexer options.
- Multiplexed and simultaneous injection modes.
- Wide frequency range of 10 Hz to 5 MHz. Independent channel gain control. Hardware null and reference probe simulation.
- 100% digital signal processing on board. FIR filters and signal detection threshold.
- No ventilation fans needed, low power consumption.
- High immunity against EMC noises. Single board. No wires.
- On board 100/1000 Ethernet FPGA controller. No need of embedded PCs.
- Easy to transport. Reduced Weight.
- Full compatible with TEDDY software running under Windows. Advanced acquisition and analysis software for tubing inspection and surfaces.
- Data display in real time: Strip-chart, Lissajous, C-Scan, and 3D views.
- User definable screens.
- Configuration and calibration of instrument. Digital filters.
- Integration with mechanical systems.



### **TEDDY SOFTWARE**

Teddy software includes a full suite of applications for advanced acquisition and analysis for both tubing inspection and other components of the industry.

TEDDY software is Windows XP/7 compatible. Alternatively drivers software and support documentation are available for customizable user applications with ETbox instruments.



TECHNICAL SPECIFICA	ATION
Power	100-240 VAC 50-60 Hz
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 70°C
Instrument Weight	5Kg
Instrument Size	30 x 25 x 27 cm WxDxH
System	Up to 50,000 Acq/sec Ethernet 100/1000BaseT Connetion Internal, External, Encoder Trigger Modes
Emitters	4 Generators Multiplexed and Simultaneous Injection modes 0-24Vpp Range Volts (1V Resolution) 16 Time-slots up to 64 frequencies 10Hz to 5MHz Range
EC Receivers	8 Coils 16 Time-slots up to 64 frequencies 10Hz – 5MHz Range Independent channel gain Hardware null Reference bobbin simulation 0dB – 40dB Range Gain (1dB Resolution)
Probe Types	Bobbin, MRPC, Multi-coil and Array Probes, RFT Prob
Channels Capabilities	Multiplexed mode: 128 Simultaneous mode: 32 Mix mode: 512
Encoders:	Up to 6 encoders TTL Level / Differential / Isolated Incremental or Pulse Type
Digital Inputs	4 Inputs TTL Level / Differential / Isolated Input, Enable ACQ, Trigger Modes
Digital Outputs	4 Outputs TTL Level / Differential / Isolated Output, Alarm, Trigger Modes
Analogue Inputs	2 Inputs ±10v Range – Isolated 20KHz bandwidth
Analogue Outputs	2 Outputs ±10v Range – Isolated 20KHz Bandwidth
Firmware process	FIR filters, threshold detection, tube-air detection

# ETbox8i Advanced Eddy Current Instrument

### **APPLICATION FIELDS**

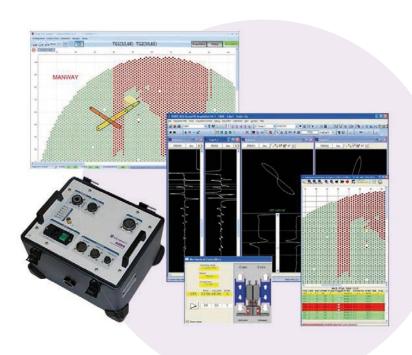
#### **Power Generation**

Tubing inspection for steam generators, heat exchangers and condensers. Fuel rods inspection. Head penetrations. Welds and components surfaces inspection.

## **Industry and Others**

Quality control of component manufacturing. Material testing in laboratories, R&D activities...





ORDERING INFORMATION	
Reference	Description
ETbox8i	ETbox instrument 8 inputs
ET8BB41BDA	1 Bobbin differential-absolute connection probe adapter
ET8BB42BDA	2 Bobbin differential-absolute connection probe adapter
ET8BB44BDA	4 Bobbin differential-absolute connection probe adapter
ET8MRP1RPC	1 RPC probe adapter
ET8MRP2RPC	2 RPC probe adapter
ET8RFA1RFT	RFT Adapter
E8iTP31TPD	Tprobe array probe adapter



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