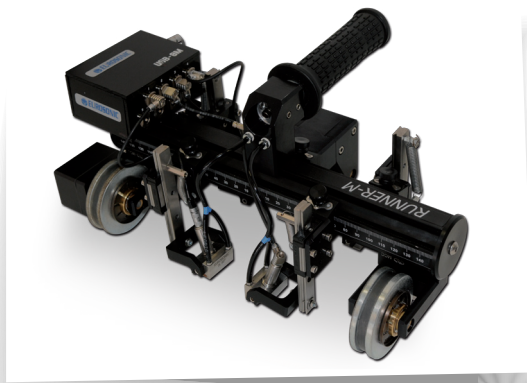


Multi-channel Ultrasonic system : **USB-8M**

USB - 8 M is provides 8 independant measuring channels Ultrasound and allows quite different settings for each channel. This module also has two encoder inputs for interfacing to any mechanical part and Bscan/Cscan mapping. Available in OEM or IP65 enclosure, the USB-8M is dedicated to multichannel ultrasonic applications in field testing, industrial plant, in training centers or in research laboratories ...

USB-8M ➔ *The multi-channel Solution*



Pack TOFD MVX

- ✓ 8 UT multiplexed channel (independent setting)
- ✓ PE/TT mode for 8 channels
- ✓ A, B or C-scan View
- ✓ 2 encoder inputs
- ✓ Power by USB link
- ✓ Available in TOFD Pack
- ✓ Compatible with XP,Vista (32 - 64bit), Mac OS, Linux
- ✓ DLL available (Labview, Matlab ...)
- ✓ Software Development on request
- ✓ Works under Euroscan MVX and UTWIN
- ✓ Integration of new functions into FPGA on request

>> *Ideal for embedded system and OEM multichannel application*

INDUSTRIAL APPLICATIONS

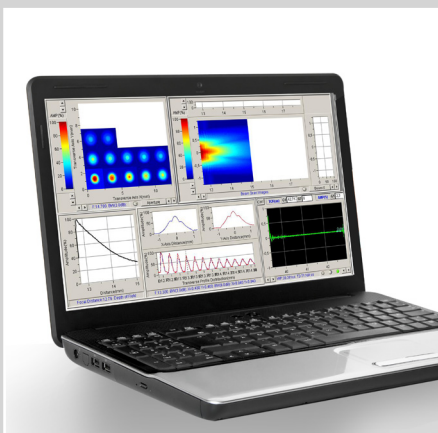
- ▶ Manual & multichannel TOFD inspection
- ▶ fast Pipes- Tubes - Plate Control
- ▶ weld inspection
- ▶ composite or metallic inspection
- ▶ Process Monitoring
- ▶ Monitoring of damage
- ▶ R & D studies ...

Multichannel Ultrasonic system : USB-8M

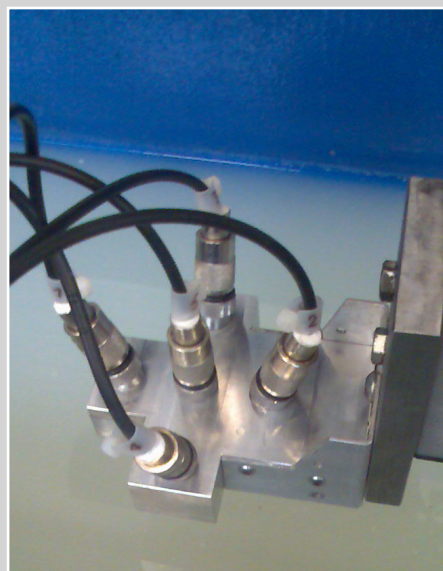
Product Bulletin



Module USB 8M



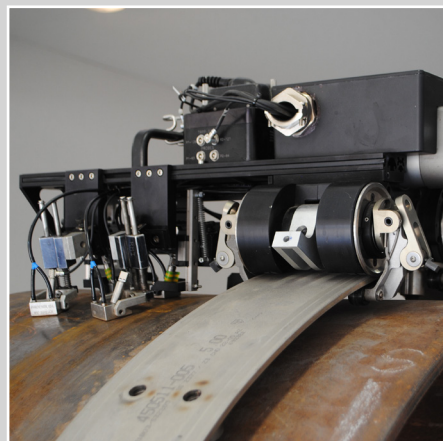
UTWin software



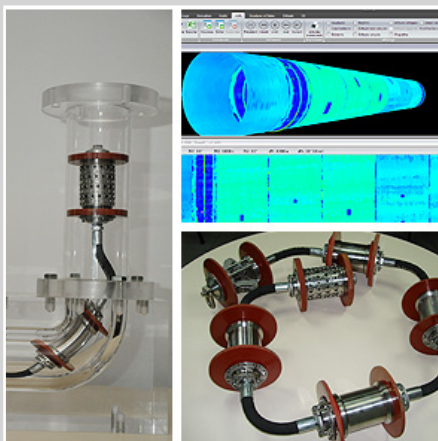
5 UT Probes holder



Railway inspection



Piperunner, weld inspection



Multi-channels UT pig

PULSER

Type.....	Spike
Tension.....	20 à 230V
Width of spike.....	20 ns à 400 ns
Resolution of width.....	5 ns
Fall time.....	4.8 ns
Rise time.....	5.2 ns
PRF.....	10 KHz max
Output impedance.....	50 Ohms

RECEIVER

Amplification.....	0 à 90 dB
Hardware Averaging.....	2, 4, 8, 16
Linearity of TGC.....	40 dB/μs
Resolution of TGC.....	Down to 50 ns
Number of TGC points.....	Up to 256
Noise.....	21 nV/Hz
Bandwidth to -6 dB.....	500 to 31 MHz

DIGITIZATION

Resolution.....	12 bits
Frequency.....	25, 50, 100 MHz

FILTERS

Type.....	FIR
Settings (MHz).....	Off / 2,5 / 2,5-7,5 / 5-15

MEMORY

Type.....	SRAM
Capacity.....	2 MB
Resolution.....	16 bits

ENCODERS

.....	2 à 4
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POWER CONSUMPTION

.....	< 5W
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BOX

Waterproof.....	IP65
Mounting.....	on RunnerM/Runner2M anything else on request

COMMUNICATION

Type.....	USB 2.0
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MUX

Type.....	Pulser & receiver separately
Number of channels.....	8

SYSTEM PARAMETERS

PRF, Voltage, Trigger configuration, sampling interval

CHANNEL PARAMETERS

Pulse width, #Rx, #Tx, offset, scale, gates, amplification, TGC, averaging, FIR