

PULSER RECEIVER UTPR-CC-35



Ultrasonic Pulser-Receiver

The UTPR-CC-35 is a computer-controlled, multi-channel ultrasonic inspection platform that can be configured as an 8 channel ultrasonic unit down to a conventional single channel pulser-receiver, and is offered as a tabletop or a rack-mountable instrument. Combining the UTPR-CC-35 with any of our TecView™ software packages would result in powerful ultrasonic inspection results

The UTPR-CC-35 is designed with applicability in mind, with specifications that can meet the most challenging demands.

AEROSPACE...

With its reliable and powerful pulsers, pre-amplifier and receiver bandwidth adjustments, as well as the ultrasonic inspection and imaging software TecView™ UT, the UTPR-CC-35 can manage inspections of composite materials as well as aluminum or other metallic structures.

PIPES & TUBES...

Used with the proper probes and software, the UTPR-CC-35 is the perfect tool for weld inspection with conventional, angle beam or TOFD ultrasonic scanning, as well as thickness and corrosion mapping.

INLINE SYSTEMES...

With its multi-channel capabilities, the UTPR-CC-35 can be used to monitor and test parts on the production line from multiple angles and methodologies in a fast and efficient way.

MORE...

The UTPR-CC-35 is a universal solution for single and multiple channel ultrasonic inspections. Whether the application requires repeatability, near & far surface resolution, penetration power or channel configuration versatility, this unit has what it takes to meet the challenge. With a receiver bandwidth adjustable from very narrow to a 35 MHz wide bandwidth and a powerful pulser that can efficiently drive transducers up to 25 MHz, requirements of a wide range of applications can be met by the UTPR-CC-35.

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Specifications

CHANNELS

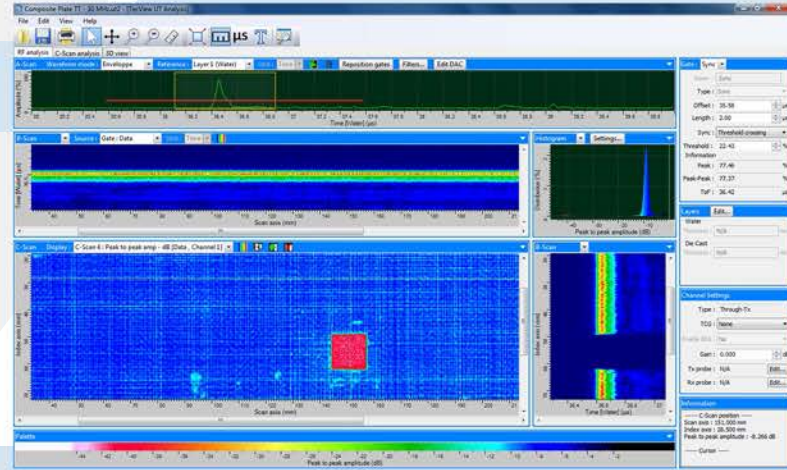
Number of channels
Channels specifications
Channels configurations

Configurable up to 8 channels
Independent pulser and receiver on each channel
Pulse-echo & Through-transmission

TECVIEW™ UT

PULSER

Pulser type Negative square wave
Pulse amplitude -50 to -300 V (1V steps)
Pulse width 30 to 500 ns (0.1 ns steps)
Damping 30 Ω , 33 Ω , 41 Ω , 45 Ω , 78 Ω
97 Ω , 219 Ω , 500 Ω (None)
Rise time < 4 ns at 300 V & 50 Ω load
Fall time < 14 ns at 300 V & 50 Ω load
PRF max 5 kHz
Trigger source Internal/External



RECEIVER

Gain -3 to 82 dB (0.1 dB steps)
Bandwidth Broadband: 300 kHz – 60 MHz (-3dB)
High-Pass Filters 300 kHz, 500 kHz, 1 MHz, 2.5 MHz, 5 MHz, 10 MHz
Low-Pass Filters Broadband (60MHz), 35 MHz, 25 MHz, 15 MHz
10 MHz, 5 MHz, 2.5 MHz
DC offset -250 to 250 mV (1 mV steps)
Noise level Typically 140 μ Vpp input referred @ 80 dB
TT isolation 95 dB

- INDEPENDENT PULSER & RECEIVER PER CHANNEL
- SQUARE WAVE FOR INCREASED PENETRATION
- UPTO 8 ULTRASONIC CHANNELS
- COMPUTER CONTROLLED (USB 2.0)
- BROADBAND RECEIVER
- RACKMOUNTABLE

INPUT/OUTPUTS

Computer Interface USB 2.0
Analog inputs Receiver input on each channel (BNC)
Analog outputs Receiver output on each channel (BNC)
I/O Trigger input/output (BNC)
Probe connection BNC connectors on each channel

PHYSICAL PROPERTIES

Packaging Rackmount-ready box
Max Size (H x W x D) 223mm x 432mm x 343mm (8.75" x 17" x 13.5")
Power input 115VAC - 230VAC @ 50/60 Hz / 230 VAC @ 50 Hz

COMBINE THE UTPR-CC-35 WITH TECVIEW™ AND GET

- Intuitive user interface
- Full waveform acquisition
- Motion control up to 12 axes
- Inspection, Imaging and Analysis modules
- Live display of A, B and C-Scans
- Inspection report generator
- Supports Phased Array Testing

- C-Scan gating capabilities (up to 16)
- Inspection of inclined surfaces
- Defect measurement and analysis tools
- Histogram analysis
- Annotations tools
- Data export, csv, dat
- C-scans export