



FUNCTIONS & FEATURES

- IP65, portable and ultra-thin design
- Square wave pulser, PRF up to 3 kHz for fast scanning / detecting
- High numbers of digital filters, suitable for nearly any application
- With standard DAC/ TCG / DGS / AVG function, Color B-Scan, C-Scan
- Reports can be automatically formed and viewed on the equipment, and export to USB directly
- Storage: 1000 groups of data (expandable); External USB for directly storage (unlimited memory)
- Language: English / German / Turkish / Italian (expandable)

APPLICATION

Quickly and accurately detection, positioning, evaluation and diagnosis of various flaws in the work-piece, such as welding cracks, defects and etc. It Widely used in Steel Structure Industry, electric power, petrochemical, boiler and pressure vessel, railway transportation, automobiles, machinery, and other fields.

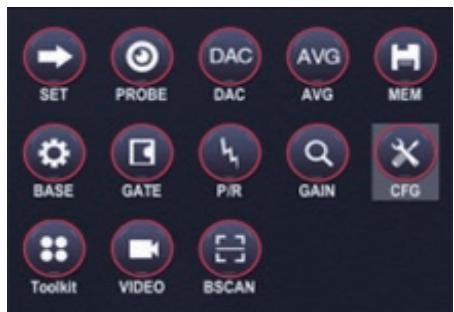
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ZHUZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
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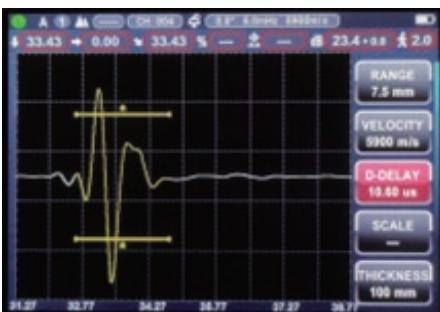
TECHNICAL SPECIFICATIONS

Model	Uee981Smart	Uee981Optimum	Uee981Expert
Scan Range(mm)	0~10000mm	0~12000mm	0~15000mm
Velocity Range (m/s)	1000~15000	500~18000	100~20000
Gain Range(dB)	110dB	120dB	120dB
Operating Frequency	0.2~20MHz	0.2~25MHz	0.2~35MHz
Pulse Repetition Frequency	10~1500Hz	10~2500Hz	10~10000Hz
Vertical linearity error	≤2.0%	≤2.0%	≤1.5%
Horizontal linearity error	≤0.2%	≤0.2%	≤0.2%
Sampling Frequency	150Mhz	200Mhz	320Mhz
Transducer Frequency Max.	15MHz	20MHz	30MHz
Dynamic Range	≥38dB	≥38dB	≥38dB
Resolution	≥40dB	≥40dB	≥40dB
Testing sensitivity	≥65dB	≥65dB	≥65dB
Pulse amplitude	100V~500V	100V~500V	100V~500V
Pulse Width	0.03~0.51μs	0.03~0.51μs	0.03~0.51μs
Transducer Damping	50Ω~400Ω	50Ω~400Ω	50Ω~400Ω
Interface for Probe cable	BNC (Optional LEMO)	BNC (Optional LEMO)	BNC (Optional LEMO)
Working mode	7 modes: Straight / Angle / Dual crystal probe, Penetrating detection and etc.		
Power Supply	100-240V 50-60Hz; DC 9V Rechargeable Li-ion battery, 10+ hours life		
Dimension & Weight	Dimension 240× 153×38mm; Net weight 0.98kg (with Li-ion battery)		
Environment	Temperature -10~50℃, Humidity 20~ 95%RH		

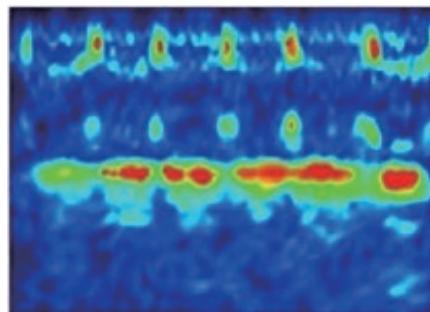
PICTURES



Menu

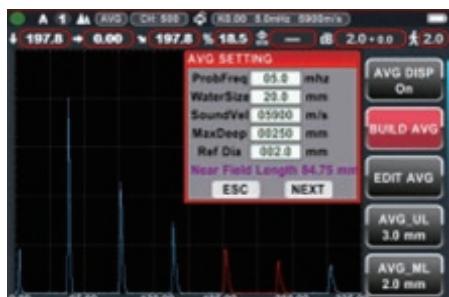


Main Interface

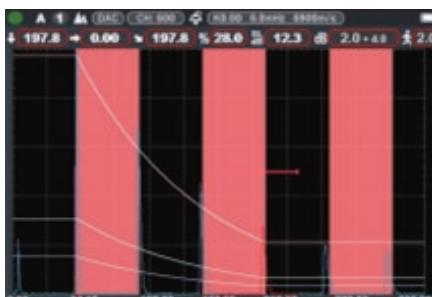


Color B scan

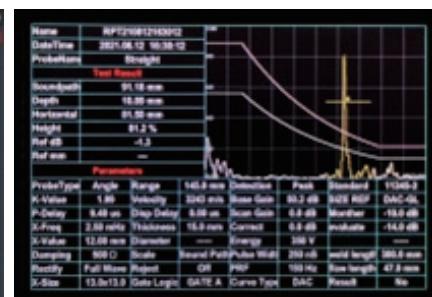
ULTRASONIC FLAW DETECTOR UEE981 SERIES



AVG interface



DAC interface



Automatic Reports

CONFIGURATION

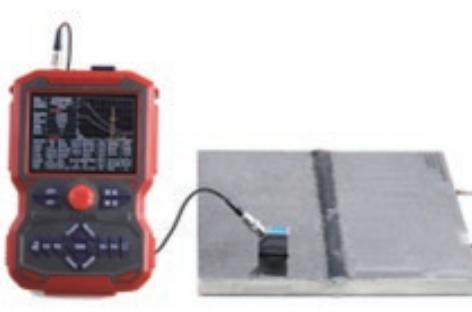
Function	Uee981Smart	Uee981Optimum	Uee981Expert
Square wave pulser	•	•	•
DAC/ DGS / AVG diagram	•	•	•
AWS	•	•	•
TCG / Color B-Scan	○	•	•
expandable Function : C-Scan	○	○	•
Automatic Calibration (V2)	•	•	•
Automatic Report	•	•	•
Bluetooth Connection	○	•	•
External Storage (USB)	•	•	•
Detection Video	○	•	•

STANDARD DELIVERY

Name	Quantity	Name	Quantity
Main unit	1	Carry Strap	1
Probe and Cable	2	Power Adapter & Battery	1
USB	1	Manual	1
Mobile App (Uee981O/ 981E only)	1	Certificate & Documents	1
IIW V2 Block (Uee981E only)	1	ABS Instrument Box	1



Ultra-thin and portable design



Automatic report display



Standard Delivery

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