



MEASUREMENT SOLUTION PROVIDER



NON-DESTRUCTIVE TESTING

CATALOGUE NO. NDT-E01



Petrochemical



Container weld



Aerospace



Infrastructure & Bridge construction



Automotive manufacturing

ABOUT NON-DESTRUCTIVE TESTING (NDT)

INSIZE Co., Ltd. Across the full value chain of industrial manufacturing, equipment operation and maintenance, and infrastructure safety, Non-Destructive Testing (NDT) provides core technical support for accurate identification of workpiece defects, mitigation of safety hazards and assurance of product quality. Without damaging workpiece structures, NDT enables detection of internal hidden flaws under the surface. Professional NDT instruments deliver accurate defect detection for a wide range of applications, including microcracks on aero-engine blades, weld defects in petroleum pipelines and corrosion on bridge steel structures.

This catalog covers five core equipment categories: **ultrasonic flaw detectors**, **magnetic particle flaw detectors**, **eddy current flaw detectors**, **radiographic flaw detectors** and **penetrant flaw detectors**. It fully presents the applicable scenarios and practical value of each instrument. Designed for users in petrochemical, automotive manufacturing, infrastructure & bridge, aerospace and other industries, this catalog helps customers pick the right instruments and use them proficiently. We assist enterprises in strengthening quality and safety assurance through efficient, compliance-aligned testing approaches, and cutting operation and maintenance costs.



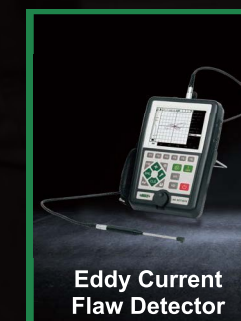
Ultrasonic Flaw Detector

1



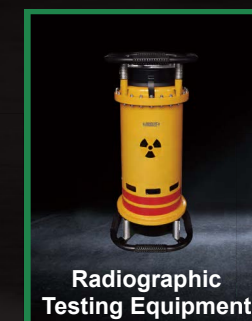
Magnetic Particle Flaw Detector

2



Eddy Current Flaw Detector

3



Radiographic Testing Equipment

4



Penetrant Flaw Detector

5

1. Ultrasonic Flaw Detector

Utilizing the reflection, refraction and attenuation characteristics of ultrasonic waves at interfaces between different media, the probe emits ultrasonic waves into the test workpiece and receives reflected echo signals. After processing by the instrument, these signals are converted into waveforms or images to determine whether internal defects exist in the workpiece, along with the location, size and type of defects.

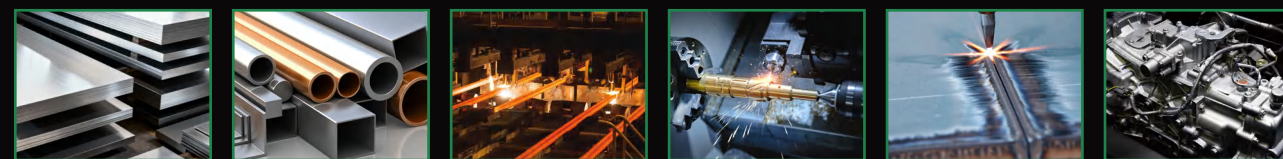
Applicable Materials:

Suitable for testing metals (steel, aluminum, copper, etc.) and non-metals (plastics, ceramics, composite materials, etc.). It is especially ideal for detecting internal defects in metallic materials.

- ☒ metals (steel, aluminum, copper, etc.)
- ☒ non-metals (plastics, ceramics, composite materials, etc.)

Applicable Workpieces:

Plates, pipes, forgings, castings and welds, such as pressure vessel welds, bridge structural steel forgings and aerospace components.





DIGITAL ULTRASONIC FLAW DETECTOR (BASIC TYPE)
CODE UFD-B450

- Full plastic housing with tempered glass panel, extremely hard, wear-resistant and scratch-resistant
 - Full-digital multi-color high resolution (640×480 pixels) TFT LCD display
 - The operation interface style can be selected according to the working environment, and the brightness of LCD can be set freely
 - Selectable frequency ranges (automatically set by the instrument) to match probe for optimum performance.
 - Can choose to set the incoming wave alarm or lost wave alarm, accompanied by LED light display
- Real-time screenshots of all pages and flaw detection reports, and save them as BMP pictures to U disk
 - Export the flaw detection report as a PDF file
 - Unique Fn multifunction key design
 - There is no limit of the number and duration of video recording through U disk
 - Memory of 500 channel files to store calibration setups and probe parameter
 - Memory of 1000 wave report files to store A-Scan wave and settings



FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results
Flaw locating	live display sound-path, projection (surface distance), depth, amplitude
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. The curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1	choosing this standard can reduce manual calculations and improve detection efficiency
Weld diagram	support V type, T type, L type and other weld types, acoustic path navigation real-time display, weld and defect location real-time display, scaling, easy to locate defects
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Crack height	the crack height is measured and calculated automatically by the diffracted wave at the end
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	video recording and playback
Echo coding	display 1~9 echo display area in different colors, used to analyze the defect position
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive

To be continued

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SPECIFICATION

Measuring range	0~15000mm
Working frequency	1.0~20MHz
Material velocity	100~20000m/s
Repetition frequency	20~2000Hz
Dynamic range	≥26dB
Vertical linearity	≤5.0%
Horizontal linearity	≤0.5%
Resolving power	>32dB
Sensitivity leavings	>54dB
Suppression	0~80%
Noise	≤10%
Probe selection	single crystal probe, dual crystal probe, penetrating probe, climbing probe
Pulse energy	100V、200V、250V、300V、350V、400V、450V、500V (selectable)
Probe damping	50Ω、150Ω、250Ω、500Ω (selectable)
Rectification	positive half wave, negative half wave, full wave, RF
Gates	two independent gates controllable over entire sweep range
Trigger	peak trigger, edge trigger
Alarms	threshold positive/negative with LED flash
Interface	USB 2.0
Operating temperature	-10~50℃
Relative humidity	20~95%RH
Power	built-in rechargeable battery
Size (L×W×H)	230×157×52mm
Net weight	1.13kg

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe UFD-T40	1 pc
Single-element angle probe UFD-T41	1 pc
Couplant	1 bottle
USB cable	1 pc
Probe connecting cable	2 pcs
USB disk	1 pc
Power adapter	1 pc



straight-beam probe (included)



angle-beam probe (included)



couplant (included)

SPECIFICATION OF PROBE

Code	Frequency	Size	Probe type	Transducer sensor angle
UFD-T40 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-T41 (included)	4.0MHz	8×9mm	single-element angle probe	60°
UFD-T42 (optional)	5.0MHz	Ø10mm	dual-element straight probe	90°
UFD-T43 (optional)	5.0MHz	Ø10mm	single-element straight probe	90°
UFD-T44 (optional)	4.0MHz	8×9mm	single-element angle probe	45°
UFD-T45 (optional)	4.0MHz	8×9mm	single-element angle probe	70°

Note: other probes can be customized according to customer requirements



DIGITAL ULTRASONIC FLAW DETECTOR (BASIC TYPE)
CODE UFD-T680

- The all-aluminum metal shell is strong and durable, and the electromagnetic shielding performance is very good
- Tempered glass panel, extremely hard, wear-resistant and scratch-resistant
- Full-digital multi-color high resolution (640×480 pixels) TFT LCD display
- 4 operating interface styles can be selected according to the environment
- Real-time screenshots of all pages and flaw detection reports, and save them as BMP pictures to U disk
- Export the flaw detection report as a PDF file
- Unique Fn multifunction key design
- There is no limit of the number and duration of video recording through U disk.
- Memory of 500 channel files to store calibration setups and probe parameter
- Memory of 1000 wave report files to store A-Scan wave and settings
- Two fully independent gates offer a range of measurement options for signal height or distance using peak triggering
- Can choose to set the incoming wave alarm or lost wave alarm, accompanied by LED light display
- Selectable frequency ranges (automatically set by the instrument) to match probe for optimum performance
- The unique automatic gain adjustment and gain scanning function make flaw detection fast and accurate



VIDEO



straight-beam probe (included)



angle-beam probe (included)



USB disk (included)



couplant (included)

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FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results
Flaw locating	live display sound-path, projection (surface distance), depth, amplitude
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. the curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1	choosing this standard can reduce manual calculations and improve detection efficiency
Weld diagram	support V type, T type, L type and other weld types, acoustic path navigation real-time display, weld and defect location real-time display, scaling, easy to locate defects
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Crack height	the crack height is measured and calculated automatically by the diffracted wave at the end
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	video recording and playback
Echo coding	display 1~9 echo display area in different colors, used to analyze the defect position
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive

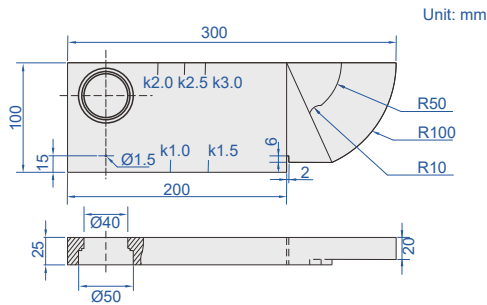
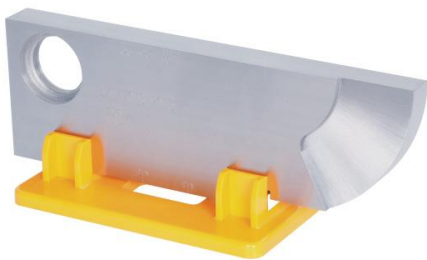
SPECIFICATION

Measuring range	0~15000mm
Working frequency	1.0~20MHz
Material velocity	100~20000m/s
Repetition frequency	20~2000Hz
Dynamic range	≥36dB
Vertical linearity	≤3.0%
Horizontal linearity	≤1.0%
Resolving power	>42dB
Sensitivity leavings	>65dB
Suppression	0-80%
Noise	≤10%
Probe selection	single crystal probe, dual crystal probe, penetrating probe, climbing probe
Pulse energy	100V、200V、250V、300V、350V、400V、450V、500V (selectable)
Pulse width	30ns-510ns
Probe damping	50Ω、150Ω、250Ω、500Ω (selectable)
Rectification	positive half wave, negative half wave, full wave, RF
Gates	two independent gates controllable over entire sweep range
Interface	USB 2.0
Operating temperature	-10~50℃
Relative humidity	20~95%RH
Power	built-in rechargeable battery
Size (L×W×H)	263×170×61mm
Net weight	1.92kg

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STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe UFD-T60	1 pc
Single-element angle probe UFD-T61	1 pc
Couplant	1 bottle
USB cable	1 pc
Probe connecting cable	1 pc
USB disk	1 pc
Power adapter	1 pc



calibration block (optional)

OPTIONAL ACCESSORY

Calibration block	UFD-CSK1
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SPECIFICATION OF PROBE

Code	Frequency	Size	Probe type	Transducer sensor angle
UFD-T60 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-T61 (included)	4.0MHz	8×9mm	single-element angle probe	60°
UFD-T62 (optional)	5.0MHz	Ø10mm	dual-element straight probe	90°
UFD-T63 (optional)	5.0MHz	Ø10mm	single-element straight probe	90°
UFD-T64 (optional)	4.0MHz	8×9mm	single-element angle probe	45°
UFD-T65 (optional)	4.0MHz	8×9mm	single-element angle probe	70°

Note: other types of the probes are available



DIGITAL ULTRASONIC FLAW DETECTOR (STANDARD TYPE)
CODE UFD-F720

- Compact and lightweight, easy to carry
 - High sensitivity, accurate defect positioning, super anti-interference ability, stable and reliable performance
 - Built-in automatic performance test function
 - Unique square wave excitation signal processing technology
- The background color and brightness can be freely adjusted to adapt to strong or low light environments to ensure a clear display
 - Real-time dynamic recording of detection waveforms, data, rapid export via U disk



FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results
Flaw locating	real-time display of defect level, depth (vertical), sound range projection
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. the curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1	choosing this standard can reduce manual calculations and improve detection efficiency
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	real-time waveform recording, storage and playback
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time

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SPECIFICATION

Measuring range	0~15000mm
Working frequency	0.4~20MHz
Material velocity	0~10000m/s
Dynamic range	≥36dB
Gain range	0~110dB (steps: 0.1dB, 1.0dB, 2.0dB, 6.0dB, 12dB)
Vertical linearity	≤3.0%
Horizontal linearity	≤0.1%
Resolving power	>36dB
Sensitivity leavings	>62dB (200Ø2 flat bottom hole, narrow band)
Attenuator	20dB±1dB
Suppression	0~90%
Pulse energy	400V
Noise	≤10%
Pulse front	≤10ns
Display screen	5.7"TFT color LCD, resolution 640x480
Probe selection	straight probe, angle probe, penetrating probe, climbing probe
Gates	incoming wave gate, lost wave gate, single gate reading, double gate reading
Alarms	incoming wave alarm, lost wave alarm, double gate alarm, buzzer alarm, LED light alarm
Interface	Q9 (BNC), USB 2.0, VGA
Operating temperature	-20~50°C
Relative humidity	20~95%
Power	rechargeable lithium-ion battery
Size (L×W×H)	228×140×42mm
Net weight	1.0kg

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe (UFD-F70)	1 pc
Single-element angle probe (UFD-F71)	1 pc
Probe connecting cable	2 pcs
USB cable	1 pc
Mainframe backpack	1 pc
USB disk	1 pc
Power adapter	1 pc



straight-beam probe (included)



angle-beam probe (included)

SPECIFICATION OF PROBE

Code	Frequency	Size	Probe type	Probe sensor angle
UFD-F70 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-F71 (included)	2.5MHz	13×13mm	single-element angle probe	63.4°
UFD-F72 (optional)	5.0MHz	Ø10mm	dual-element straight probe	90°
UFD-F73 (optional)	5.0MHz	Ø10mm	single-element straight probe	90°
UFD-F74 (optional)	2.5MHz	9×9mm	single-element angle probe	45°
UFD-F75 (optional)	2.5MHz	9×9mm	single-element angle probe	71.6°

Note: other probes can be customized according to customer requirements



DIGITAL ULTRASONIC FLAW DETECTOR (ADVANCED TYPE)
CODE UFD-P710

- With fast, accurate display and analysis of defective echo signals, a variety of weak signal changes and details can respond in a timely manner, the real-time echo signal and authenticity can be effectively guaranteed
- For the detection of high attenuation materials or thick workpiece has excellent penetration and letter ratio; sharp wave excitation technology and adjustable pulse width, pulse voltage, emission anisotropic square wave technology in the detection of thin workpiece and composite materials have a high resolution
- FIR digital filtering technology better signal-to-noise ratio; probe frequency harmonic analysis, can better analyze the probe performance information
- Automatic calibration of material speed of sound, probe delay, probe K value; convenient DAC, AVG curve creation and application
- USB HOST interface, can be connected to an external U disk to achieve data transfer; can be connected to an external WIFI module to achieve communication with other wireless devices
- HDMI video output for flaw detection and teaching presentations
- Ultra-large capacity storage space for continuous dynamic recording data storage
- Wireless phased array module can be connected, so that the conventional ultrasonic flaw detector has the same detection function as phased array instrument



VIDEO



external wireless phased array module (optional)



single-element straight probe (included)



single-element angle probe (included)



wireless phased array module (optional)



phased array probe (optional)

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FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results
Flaw locating	live display sound-path, projection (surface distance), depth, amplitude
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. The curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1/1.5	choosing this standard can reduce manual calculations and improve detection efficiency
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Crack height	the crack height is measured and calculated automatically by the diffracted wave at the end
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	video recording and playback
Echo coding	display 1~9 echo display area in different colors, used to analyze the defect position
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe (UFD-P70)	1 pc
Single-element angle probe (UFD-P71)	1 pc
Probe connecting cable	2 pcs
Mainframe backpack	1 pc
USB disk	1 pc
Power adapters	1 pc

OPTIONAL ACCESSORY

Probe	refer to specification of transducers
Wireless phased array module	UFD-PA11
Phased array probe	UFD-PA06

To be continued

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SPECIFICATION

Measuring range	0~10000mm
Working frequency	0.5~20MHz
Material velocity	1000~15000m/s, adjustable in continuity; 30 pre-set nominated velocities for common materials
Repetition frequency	25~1600Hz
Dynamic range	≥32dB
Gain range	0.0~110dB (steps: 0.1dB, 1.0dB, 2.0dB, 6.0dB)
Vertical linearity	≤3.0%
Horizontal linearity	≤0.4%
Resolving power	>26dB (2.5P20)
Sensitivity leavings	>62dB (200Ø2 flat bottom hole, narrow band)
Attenuator	12dB±1dB
Suppression	0-99%
Noise	≤10%
Display screen	5.7" TFT color LCD, resolution 640×480
Pulse type	sharp wave, negative square wave, bipolar square wave; transmit voltage 50~250V adjustable, step 50V
Pulse shift	-7.5~3000us
Probe zeroing	0~200us
Rectification	positive, negative, full-play, RF
Gates and alarms	two-way gate, optional: incoming wave alarm, lost wave alarm, DAV curve alarm, alarm signal for sound and light alarms; measurement mode: peak, frontal
Interface	Q9 (BNC), USB HOST, Mini HDMI
Damping	400Ω, 80Ω
Storage temperature	-30~50℃
Relative humidity	20~95%RH
Power	rechargeable lithium-ion battery, working time 6~8h
Size (L×W×H)	246×166×50mm
Net weight	1.3kg

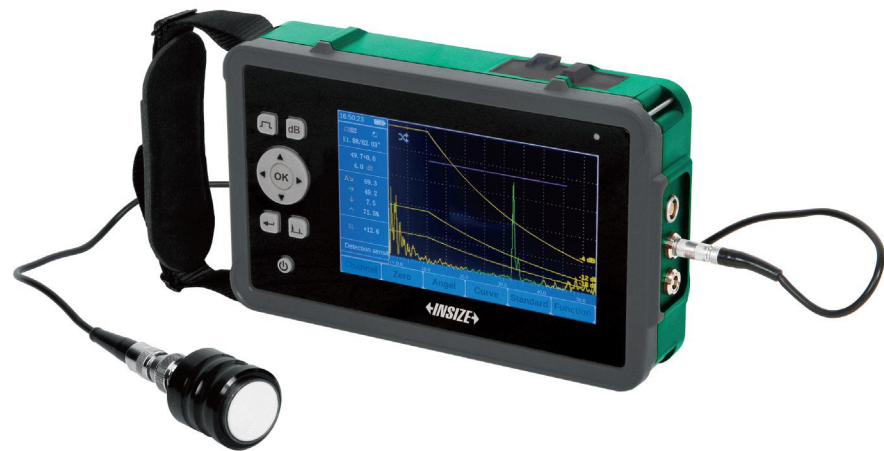
SPECIFICATION OF PROBES

Code	Frequency	Size	Probe type	Probe transducer angle
UFD-P70 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-P71 (included)	2.5MHz	13×13mm	single-element angle probe	45°
UFD-P72 (optional)	2.5MHz	Ø14mm	dual-element straight probe	90°
UFD-P73 (optional)	5.0MHz	Ø20mm	single-element straight probe	90°
UFD-P74 (optional)	2.5MHz	13×13mm	single-element angle probe	63.4°
UFD-P75 (optional)	5.0MHz	8×12mm	single-element angle probe	68.2°

Note: other probes can be customized according to customer requirements

SPECIFICATION OF PHASED ARRAY PROBE (OPTIONAL)

Code	Frequency	E-Nos	Pitch (mm)	Elev (mm)	Ptd. angle	Ptd. material
UFD-PA06 (optional)	2.5MHz	16	1.0	10	55°	plexiglass



DIGITAL ULTRASONIC FLAW DETECTOR (EXCELLENT TYPE) CODE UFD-C870

- Small size, light weight, long battery standby time
- High sensitivity, accurate defect positioning, super anti-interference ability, stable and reliable performance
- Resistive touch screen, dust and oil resistant, sensitive touch
- The performance of instrument and probe combinations can be tested automatically
- Unique square wave excitation signal processing technology
- Launch voltage, probe damping, pulse width, filter band adjustable, suitable for different materials, different thickness of the workpiece accurate detection
- The background color and brightness can be freely adjusted to adapt to strong or low light environments to ensure a clear display
- Full course, continuous, dynamic high-capacity recording of test echoes and data, support for data playback, through the U disk export
- Built-in wifi, can realize the flaw detector and computer synchronization real-time display



FUNCTIONS

Flaw detection standard	built-in common flaw detection standards, direct call, convenient and fast
Auto calibration	automatic calibration of probe zero offset, probe angle (K value) and material velocity
Peak hold	compare frozen peak waveforms to live A-Scans to easily interpret test results
Flaw locating	real-time display of defect level, depth (vertical), sound range projection
Flaw discrimination	automatic flaw sizing using AVG or DAC, speeds reporting of defect acceptance or rejection
Flaw sizing	the equivalent dB value of defects or equivalent size of defects are displayed in real time
Curved surface correction	used for flaw detection of curved workpiece, it can display the circumferential position of defects in real time
DAC/AVG	the curve is automatically generated, and the sampling points can be compensated and corrected. the curve automatically floats with the gain, automatically expands with the detection distance, and automatically moves with the delay time. It can display the AVG curve of any aperture
AWS D1.1	choosing this standard can reduce manual calculations and improve detection efficiency
Weld diagram	support V type, T type, X type and other weld types, acoustic path navigation real-time display, weld and defect location real-time display, scaling, easy to locate defects
Automatic rating	select different AWS standards, automatically calculate the rating of defects and display
Gate magnify	spreading of the gate range over the entire screen width
Continuous record	real-time waveform recording, storage and playback
Echo coding	distinguish between odd/even wave colors only
Scan freeze	display freeze holds waveform and test distance data
Peak mark	capture and mark the peak in real time
B scan	intuitively display the defect shape of the workpiece and the detection result is more intuitive

To be continued

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SPECIFICATION

Measuring range	0~20000mm
Working frequency	0.4~20MHz
Material velocity	20~20000m/s
Repetition frequency	60~1000Hz
Dynamic range	≥32dB
Gain range	0~110dB (steps: 0.1dB, 1.0dB, 2.0dB, 6.0dB, 12dB)
Vertical linearity	≤2.0%
Horizontal linearity	≤0.1%
Resolving power	>36dB
Sensitivity leavings	>62dB (200Ø2 flat bottom hole, narrow band)
Attenuator	20dB±1dB
Suppression	0-90%
Noise	≤10%
Display screen	5.0"TFT color LCD touch screen, resolution 800×480
Pulse voltage	50V/100V/200V/400V four adjustable steps
Pulse width	50ns~1000ns adjustable
Rectification	positive, negative, full-paiy, RF
Gates and alarms	two-way gate optional: incoming wave alarm, lost wave alarm, DAV curve alarm, alarm signal for sound and light alarms; measurement mode: peak, frontal
Interface	C5 (BNC), USB (Type C), VGA
Damping	50Ω/500Ω adjustable in two steps
Operating temperature	-20~50°C
Relative humidity	20~95%
Power	rechargeable lithium-ion battery, working time>8h
Size (L×W×H)	180×110×45mm
Net weight	0.68kg

STANDARD DELIVERY

Main unit	1 pc
Single-element straight probe (UFD-C80)	1 pc
Single-element angle probe (UFD-C81)	1 pc
Probe connecting cable	2 pcs
USB cable	1 pc
USB disk	1 pc
Power adapter	1 pc



single-element straight probe (included)



single-element angle probe (included)

SPECIFICATION OF PROBE

Code	Frequency	Size	Probe type	Probe sensor angle
UFD-C80 (included)	2.5MHz	Ø20mm	single-element straight probe	90°
UFD-C81 (included)	2.5MHz	13×13mm	single-element angle probe	63.4°
UFD-C82 (optional)	5.0MHz	Ø10mm	dual-element straight probe	90°
UFD-C83 (optional)	5.0MHz	Ø10mm	single-element straight probe	90°
UFD-C84 (optional)	2.5MHz	9×9mm	single-element angle probe	45°
UFD-C85 (optional)	2.5MHz	9×9mm	single-element angle probe	71.6°

Note: other probes can be customized according to customer requirements



UFD-K935

ULTRASONIC PHASED ARRAY DETECTORS

- Optimal for phased array inspections involving intricate structures or materials, including but not limited to PE pipe electrical conduits, composite materials, TKY butt welds, flanges, blades, etc.
- Integrating full focus function, conventional phased array function, bolt cylinder guided wave detection function, and TOFD function, it can be directly switched through device software, making it lighter and more powerful
- Supports 64-element real-time TFM full-focus scanning imaging capability
- The focus law offers versatility by supporting multiple PA scanning methods, enabling simultaneous scanning and imaging
- Incorporate a dual TOFD channel feature that facilitates integrated imaging through dual phased array TOFD
- Equipped 2×32 with dual linear array and double-sided array capabilities for effective austenitic stainless steel detection
- Equipped with advanced CAD import module, it can import equipment based on the size and contour of the workpiece to assist in identifying defects
- Facilitate the output of multi-channel video signals to distinct screen displays
- Support a dual-axis encoder interface for two-dimensional corrosion C scanning and wheel probe detection
- Enable high-speed network transmission, allowing for real-time data uploading and downloading
- Supports PCI/PWI and other imaging modes

STANDARD DELIVERY

Main unit	1 pc
Lithium battery	2 pcs
Touch Pen	1 pc
Screwdriver	2 pcs
HDMI cable	1 pc
Network cable	1 pc
USB disk	1 pc
Power adapter	1 pc

OPTIONAL ACCESSORY

Phased array probe	refer to specification of transducers
Phased array mini scanner	UFD-K935-KD10
Phased array handheld scanner	UFD-K935-KD11

Note: other probes and scanners can be customized according to customer requirements



phased array probe (optional)



phased array mini scanner (optional)



phased array handheld scanner (optional)

SPECIFICATION OF PHASED ARRAY PROBE

Code	Frequency	E-Nos	Pitch (mm)	Elev (mm)	Ptd. angle	Ptd. material
UFD-K935-KD91 (optional)	2.5MHz	16	0.6	10	37°	plexiglass
UFD-K935-KD92 (optional)	5.0MHz	32	1.0	13	35°	plexiglass
UFD-K935-KD93 (optional)	7.5MHz	64	1.0	5	35°	plexiglass
UFD-K935-KD94 (optional)	2.5MHz	64	1.81×1.46	/	18.9°	plexiglass

To be continued

Continued from previous page

SPECIFICATION

Code		UFD-K935		UFD-K936	
Channel category		phased array channel	conventional channel	phased array channel	conventional channel
PU/UT configuration	receive/transmit	32/64	4-channel TOFD (2 pairs, one transmit and one receive)	32/128	4-channel TOFD (2 pairs, one transmit and one receive)
	range	1000μs	10000μs	1000μs	10000μs
	material velocity	340~15240m/s			
Receiver	gain range	0~80dB	0~110dB	0~80dB	0~110dB
	system bandwidth	0.5~20MHz	0.5~15MHz	0.5~20MHz	0.5~15MHz
	receive delay	50μs/2.5ns	/	50μs/2.5ns	/
Pulser	pulse voltage	50V~100V continuously adjustable	100V~350V continuously adjustable	50V~100V continuously adjustable	100V~350V continuously adjustable
	pulse excitation method	negative square wave			
	pulse width	30~500ns/2.5ns			
	pulse rise time	<8ns	<15ns	<8ns	<15ns
	repetition frequency	200Hz~20kHz	100Hz~1kHz	200Hz~20kHz	100Hz~1kHz
	delay accuracy	0~20μs/2.5ns	0~655μs/10ns	0~20μs/2.5ns	0~655μs/10ns
Data acquisition	sampling rate	100MHz/10bits	200MHz/10bits	100MHz/10bits	200MHz/10bits
	maximum A-scan length	8192	2048	8192	2048
	focus mode	regular/dynamic/full range	/	regular/dynamic/full range	/
	focus type	depth, sound path, horizontal	/	depth, sound path horizontal	/
Display and scan	detection method	positive-wave, negative-wave, RF-wave, full-wave			
	display screen	10.1", resolution 1280×800			
	touch screen type	capacitive touch screen			
	scan type	fan scan/line scan/composite scan			
Programmable TCG	display mode	A/B/C/L/S/3D	A/B/C	A/B/C/L/S/3D	A/B/C
	number of points	32	/	32	/
	maximum gain	40dB, gain step is 0.1dB	/	40dB, gain step is 0.1dB	/
I/O interface	maximum gain slope	40dB/μs	/	40dB/μs	/
	USB	USB 3.0/USB 2.0			
	ethernet	1000Mb/s			
Data storage	video output mode	HDMI			
	encoder	dual encoder			
	SSD	256GB			
Power supply	DC supply voltage	24V/3.75A			
	lithium battery	rated voltage: 11.1V, rated capacity: 17Ah			
	working hour	lithium battery can work for ≥ 4 hours when fully charged			
Working temperature		-10~50°C			
Dimension (L×W×H)		340×230×100mm			
Net weight		5.2kg			



application examples

ULTRASONIC FLAW DETECTOR FOR CONCRETE
CODE UFD-Q390

- Ultrasonic rebound synthesis method to measure the strength, defects, depth and width of the 4 major functions in one
- Automatically read the sound time and wave amplitude of a wave, without manual judgment operation, and directly display the test results
- Manually adjustable sound time line, data correction for more accurate detection results
- During the test process, you can arbitrarily playback, overwrite, and delete the waveform of the stored measurement points
- 10" high brightness touch screen, intelligent interaction interface, easy to learn and use convenient operation
- 4cm thin body, light weight and easy to carry
- Computer dedicated analysis software is powerful, data analysis and processing, print reports easily
- Suitable for: concrete strength testing, internal defect testing, surface crack depth testing, crack width testing in the construction industry; acoustic parameter testing of rock and non-metallic concrete materials, etc



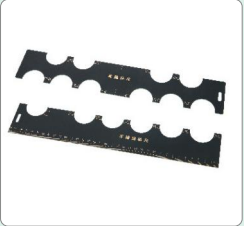
planar probe
(included)



miniature camera
(included)



crack width calibration
template (included)



crack ranging scale
(included)



hand torch
(included)

To be continued

Continued from previous page

SPECIFICATION

Detection channel	2
Depth measurement range	5~500mm
Width measurement range	0.01~10mm
Sound time measurement range	0~4096000μs
Wave amplitude measurement range	0~170dB
Sampling interval	0.025μs~2000μs multi-speed selectable
Sampling length	512points~2048points multi-speed selectable
Acceptance sensitivity	≤10μV
Transmit pulse width	0.1μs~100μs
Emission voltage	125V、250V、500V、1000V selectable
Trigger method	automatic
Storage	built-in16GB
Data output	USB, WIFI
Operating temperature	-20~60°C
Power supply	rechargeable lithium battery, working time>8 hours
Dimensions (L×W×H)	283×216×41mm
Net weight	1.8kg

STANDARD DELIVERY

Main unit	1 pc
Planar probe	2 pcs
Miniature camera	1 pc
Crack ranging scale	2 pcs
Crack width calibration template	1 pc
Hand torch	1 pc
Probe connection cables	2 pcs
USB disk	1 pc
Power adapter	1 pc



UFD-CY310

SCANNING ACOUSTIC MICROSCOPES

CUSTOMIZED ACCORDING TO WORKPIECES

- Suitable for automatic scanning of inclusions, cracks, porosity, delamination and other defects in metal and composite parts
- It supports a full range of imaging modes including A, B, C, D and X, presenting product details with high precision, with data marking and waveform comparison functions, it enables in-depth tracking and accurate analysis of defects
- Based on the propagation time and attenuation degree of the wave, the morphology and defect distribution inside the detection object are quickly presented
- The number and dimensions of trays are customizable, with built-in functions including automatic image segmentation, empty tray recognition and skipping, etc.
- Multiple measurement modes, precise evaluation, supporting up to 9 manual measurement methods including point-to-point, parallel width, multi-segment, and more to meet diverse measurement needs
- Visual intelligence, algorithm import, supporting machine vision based image evaluation algorithm import, realizing automated defect recognition and evaluation
- After manual framing of the defect area, it automatically calculates the defect size, area and proportion, simplifying the analysis process
- A, B, C, D scan support exporting PNG, BMP, TIFF and other formats of images, clearly displaying detection results

Continued from previous page

TEST INTERFACE

scan integrated image interface

wafer inspection interface

IGBT single tube detection interface

multi layer ceramic capacitor detection interface

SPECIFICATION

Code	UFD-CY310	UFD-CY320	UFD-CY330	UFD-CY340	UFD-CY350	UFD-CY360
Working frequency	1~150MHz	5~300MHz	5~500MHz	1~150MHz	5~300MHz	5~500MHz
Workstation	single station	single station	single station	dual station	dual station	dual station
Sampling frequency	2GS/s	2GS/s	2GS/s	1GS/s/CH	1GS/s/CH	1GS/s/CH
Gain adjustment range	-32~80dB					
Gain adjustment step	0.01dB					
Maximum repetition frequency	65kHz					
Raster ruler resolution	0.1μm					
Maximum detection speed	1000mm/s					
Maximum imaging area	400×400mm			400×800mm		
Repeatability	±0.5μm					
Scanning range	400×400×100mm (customizable)					
Water tank dimensions	650×930×150mm (customizable)					
Operating environment	5~35°C, relative humidity ≤85%					
Shockproof requirements	low frequency: <50μm/s, high frequency: <20μm/s					
Power supply	220V, 50Hz					
Dimension (L×W×H)	1000×1000×1400mm (customizable)					

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REFLECTION PROBE TECHNICAL PARAMETERS

Code	Frequency	Aperture (mm)	Underwater focal length (mm)	Aperture range (mm)	Focal length range (mm)
UFD-CY51 (optional)	40MHz	6	16	4~6	12.7~30
UFD-CY52 (optional)	5.0MHz	6	40	4~10	unfocused/15~70
UFD-CY53 (optional)	10MHz	6	30	3~6.5	unfocused/15~60
UFD-CY54 (optional)	15MHz	6	30	3~6.5	unfocused/20~60
UFD-CY55 (optional)	20MHz	4	20	2.5~5	unfocused/20~60
UFD-CY56 (optional)	30MHz	4	12.7	4~6	unfocused/12.7~40
UFD-CY57 (optional)	50MHz	3	10	3~4	10~20
UFD-CY58 (optional)	75MHz	3	10	/	8~12.7
UFD-CY59 (optional)	80MHz	3	10	/	8~12.7
UFD-CY60 (optional)	100MHz	2	8	/	8~10
UFD-CY61 (optional)	110MHz	2	10	/	/
UFD-CY62 (optional)	200MHz	2	8	/	/

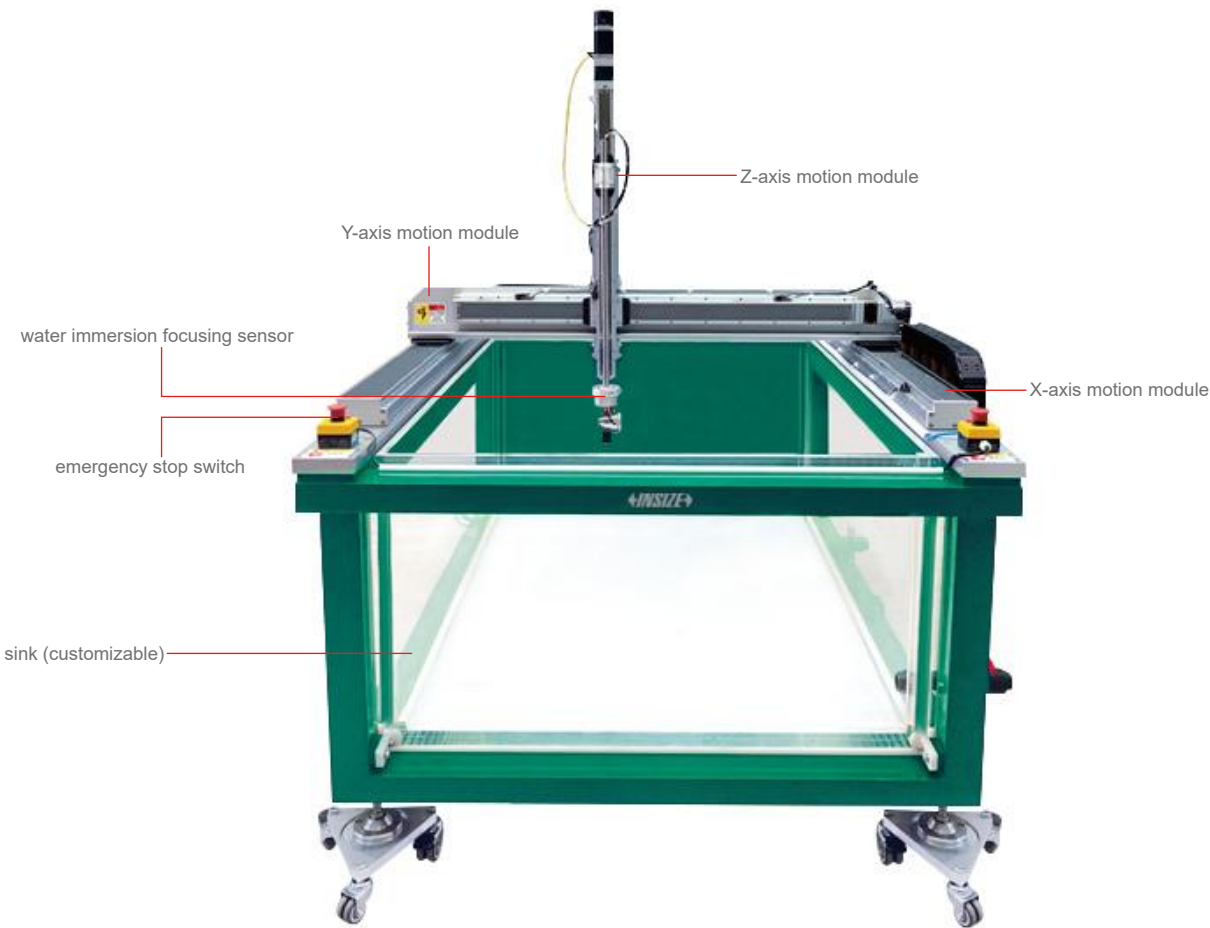
TRANSMISSION PROBE TECHNICAL PARAMETERS

Code	Frequency	Aperture (mm)	Underwater focal length (mm)	Focal range (mm)
UFD-CY63 (optional)	25MHz	6	16	16~30
UFD-CY64 (optional)	40MHz	6	16	12.7~30
UFD-CY65 (optional)	75MHz	3	10	8~12.7
UFD-CY66 (optional)	100MHz	2	8	/

Note: other probes can be customized according to customer requirements

STANDARD DELIVERY

Main unit	1 pc
27" display screen	1 pc
Industrial personal computer	1 pc
USB disk	1 pc
Water filtration system	1 pc



ULTRASONIC WATER IMMERSION DETECTION SYSTEM
CODE UFD-CW□□□

CUSTOMIZED ACCORDING
TO WORKPIECES

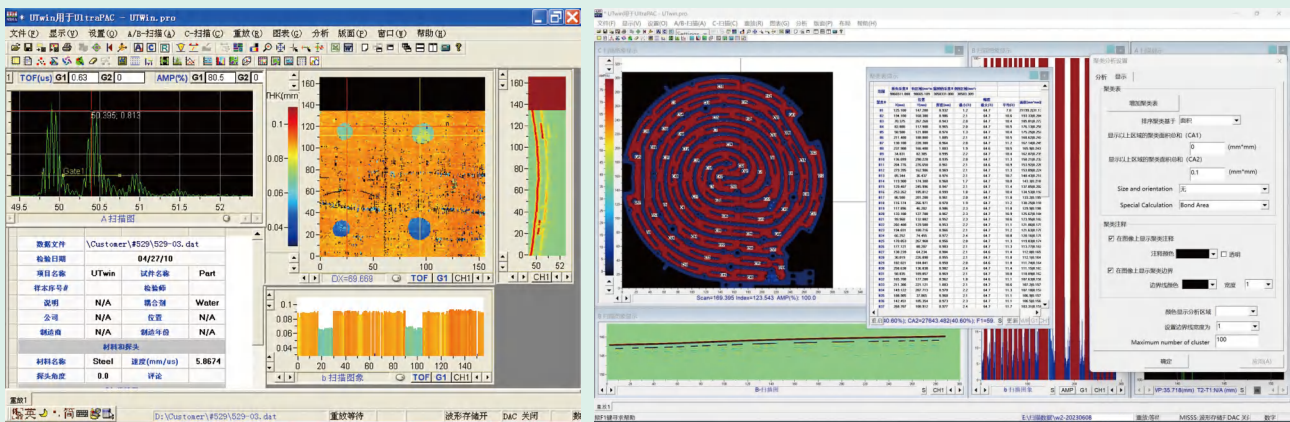
- Suitable for automatic scanning of inclusions, cracks, porosity, delamination and other defects in metal and composite parts
- High-speed ultrasonic acquisition module based on PCIE architecture
- Highly integrated ultrasonic A, B, C all-in-one scanning software, all functions in a single interface operation, easy to use
- Automatic localization, quantification, and statistical calculation of defects
- Automatically adapted to the wall thickness, each threshold can be set as an Intelligent threshold, which automatically adjusts the width, height and other parameters of the threshold as the position changes. parameters with positional changes, so that a single scan of a workpiece with a variable cross-section thickness can be realized
- Powerful software and intelligent algorithms, automatically statistics defects



FUNCTIONS

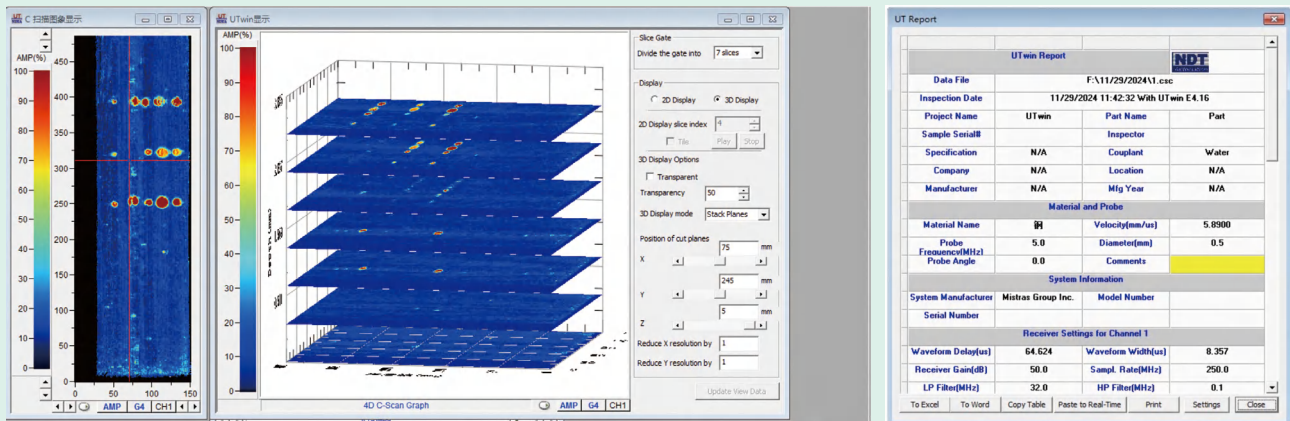
Scanning mode	real-time A,B,C scanning and image display
Defect localization	automatic tracking and localization of defects
Analysis of defects	quantitative analysis of material defects-Cluster function
Intelligent threshold	automatically generate each corresponding image as well as difference and ratio images between gates
Automated statistics	function to automatically find the maximum and minimum points
Full waveform storage	full-wave RF record analysis and C-scan result reconstruction function

Continued from previous page



A, B, C, scanning integrated image interface

defect automatic measurement function interface



ultrasonic tomography (CT) interface

UT reporting interface

SPECIFICATION

Working gate	4 (different gate delays, width control, transient thresholds and detection thresholds)
Working frequency	0.1~32MHz
Material velocity	20~99999m/s
Repetition frequency	1~14000Hz (non-time-shared sampling)
Sampling frequency	Max 250M
Gain	110dB, step 0.1dB
Detection accuracy	meets the AAA level detection accuracy in the standard (e.g. detection sensitivity Ø0.4mm-15dB in 20# mold steel)
Vertical linearity error	≤±2% (within 5~95%)
Horizontal linearity error	≤±1% (within the range of 0~90%)
Ultrasonic pulse wave modes	sharp wave, square wave, linear fm pulse, group pulse group pulse
Trigger mode	software control, external Input, signal threshold
Threshold control	program can control 1~100% full screen
A/D converter	14 bits
Valid itinerary	1200×900×500mm
Operation environment	temperature: -10~45°C, relative humidity: ≤85%
Power supply	220V, 50Hz
Dimension	1480×1190×1720mm (customizable)



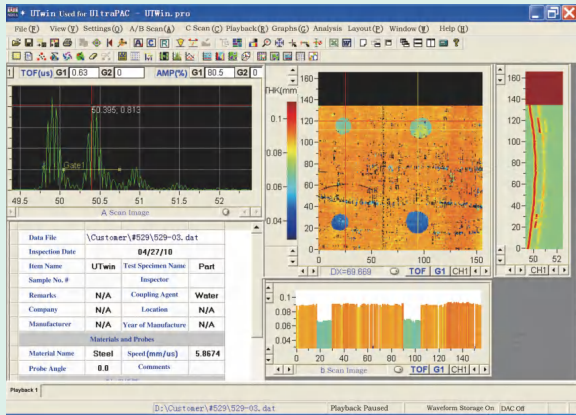
AUTOMATIC IMMERSION ULTRASONIC TESTING SYSTEM
CODE RBT-UFD01

CUSTOMIZED ACCORDING
TO WORKPIECES

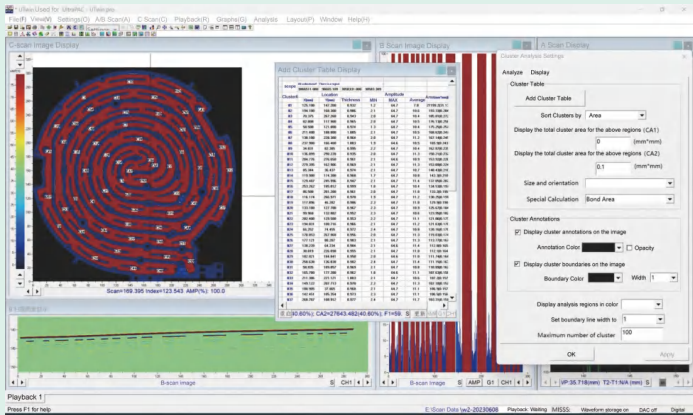
- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Automated loading and unloading via robotic arms, automatic ultrasonic inspection, and real-time feedback of inspection results to the control system
- Control system Tcp/IP via bus communication, high speed, high efficiency and easy to extend

OPERATION PROCESS

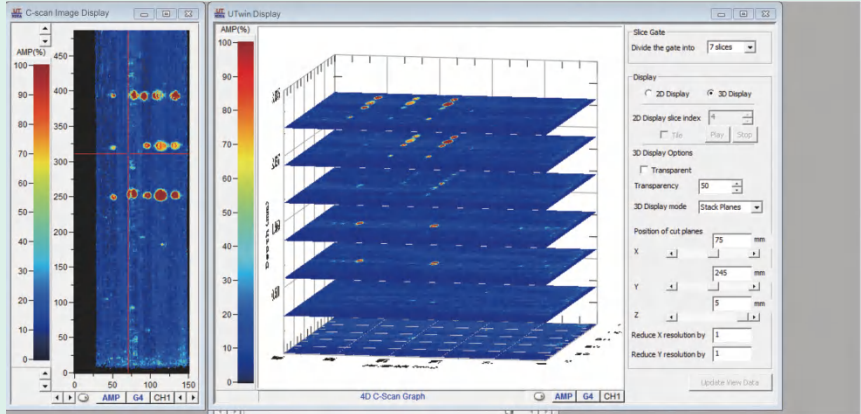
- step 1: place the workpiece manually on the positioning block in the loading area and position it on the right side against the edge.
- step 2: press the reset button to return the robot and cylinder to the initial position.
- step 3: press the start button, the system prompts whether the workpiece is correctly placed and click OK.
- step 4: the robot grips the workpiece and places it in the transplanting station.
- step 5: perform a scan inspection of the workpiece and automatically generate a measurement report.
- step 6: the transplanting station moves to the outer handling station and the robot removes the workpiece.
- step 7: the robot places the workpiece in the OK or NG station according to the test results.



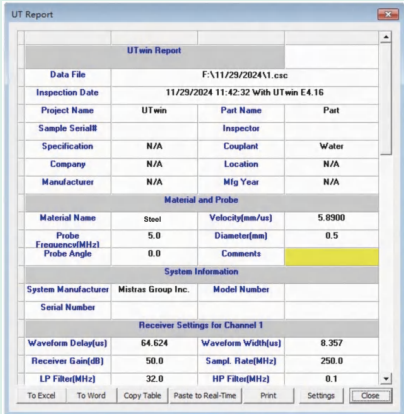
A, B, C, scanning integrated image interface



defect automatic measurement function interface



ultrasonic tomography (CT) interface



UT reporting interface

FUNCTIONS

Scanning mode	real-time A, B, C scanning and image display
Defect localization	automatic tracking and localization of defects
Analysis of defects	quantitative analysis of material defects-Cluster function
Intelligent threshold	automatically generate each corresponding image as well as difference and ratio images between gates
Automated statistics	function to automatically find the maximum and minimum points
Full waveform storage	full-wave RF record analysis and C-scan result reconstruction function

To be continued

Continued from previous page

SPECIFICATION

Robot	robot arm spreading	720mm
	Max working speed	4000mm/s
	Max weight of workpiece	8kg
	repeat positioning accuracy	±0.02mm
	number of control axis	6
	communication protocols	ethernet Tcp/IP
Ultrasonic testing	net weight	100kg
	working gate	4 (different gate delays, width control, transient thresholds and detection thresholds)
	working frequency	0.1~32MHz
	material velocity	20~99999m/s
	repetition frequency	1~14000Hz (non-time-shared sampling)
	sampling frequency	Max 250M
	gain	110dB, step 0.1dB
	detection accuracy	meet the AAA level detection accuracy in the standard (e.g. detection sensitivity Ø0.4mm-15dB in 20# mold steel)
	vertical linearity error	±2% (within 5~95%)
	horizontal linearity error	±1% (within the range of 0~90%)
	ultrasonic pulse wave modes	sharp wave, square wave, linear fm pulse, group pulse group pulse
	trigger mode	software control, external input, signal threshold
	threshold control	program can control 1~100% full screen
	A/D converter	14 bits
	valid itinerary	1200×900×500mm
	operation environmtement	temperature: -10~45°C, relative humidity: ≤85%
	power supply	220V, 50Hz
	dimension	1480×1190×1720mm (customizable)

SPECIFICATION OF PROBE

Code	Frequency	Focal length
UFD-CW63 (optional)	15MHz	4"
UFD-CW64 (optional)	20MHz	2"
UFD-CW65 (optional)	25MHz	1.25"

Note: other probes can be customized according to customer requirements

STANDARD DELIVERY

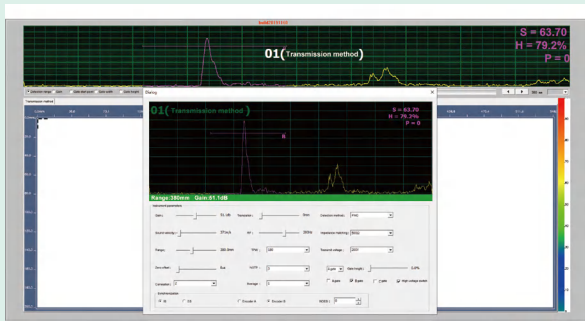
Robotic system	robot body
	robot control cabinet
	programming guide
main unit	1 pc
27"monitor	1 pc
Industrial computer	1 pc
Water filtration system	1 pc
Data storage USB flash drive	1 pc
Control box	1 pc



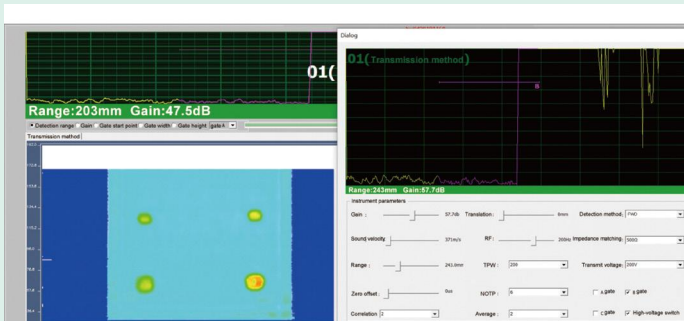
AIR-COUPLED ULTRASONIC DETECTOR
CODE UFD-AW

CUSTOMIZED ACCORDING TO WORKPIECES

- Suitable for all types of aerospace composites, lithium batteries, water-repellent or slightly porous materials, as well as non-metallic materials that are susceptible to damage or intrusion of foreign objects
- Non-contact ultrasonic detection without coupling agent, detection distance from a few millimeters to several tens of millimeters
- Inspection of thin, rough or curved workpieces, which are less affected by the inspection surface
- Can withstand certain high and low temperature material testing
- A-scan, B-scan, C-scan imaging available
- Multi-channel automated scanning devices can be adapted to the size of the parts to be scanned



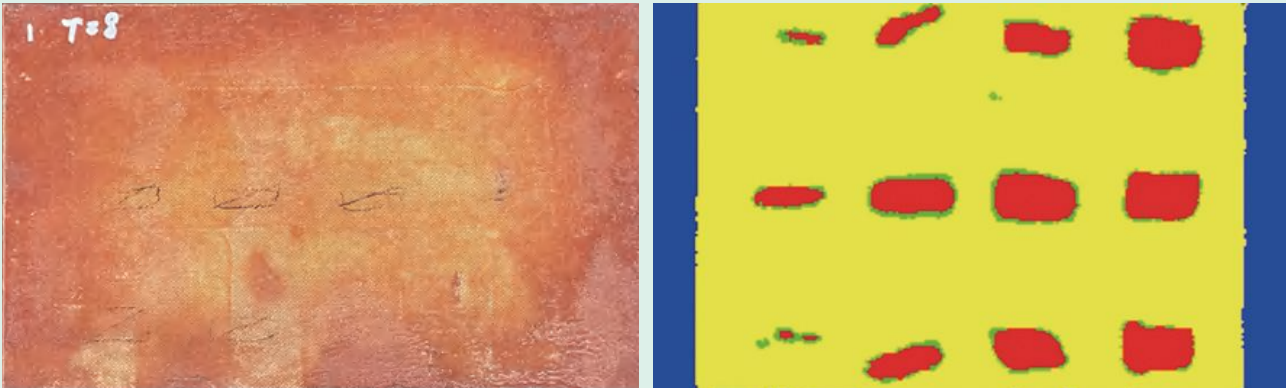
software parameter setting interface



scanning measurement function interface

To be continued

Continued from previous page



scanning display interface

SPECIFICATION

Accept parameters	sampling frequency/bit depth	100MHz/14bits
	receiver bandwidth	35kHz~2MHz
	gain range	0~120dB, step 0.1dB
	gain linearity	cumulative error within every 20dB ≤±1dB; cumulative error within every 60dB ≤±2dB
	equivalent input noise	1.5nV/√HZ
Launch parameters	number of channels	unlimited combinations
	transmission frequency range	50kHz~2MHz (adjustable pulse count)
	transmission voltage amplitude	highest 400V (customizable 800V)
	transmission voltage waveform	square wave
	maximum output power	2kW (400V), 4kW (800V)
	pulse repetition frequency	15~1000k
Probe parameters	frequency range	50kHz~2MHz (adjustable pulse count)
	relative sensitivity	≤30dB
	resolution	≤2mm
	focusing method	fixed focus or electronic deflection focusing
Hardware parameters	scanning range	280×180mm (customizable)
	maximum scanning speed	800mm/s
	repeatability	0.1mm
	detection method	positive-wave、negative-wave、RF-wave、full-wave
	impedance matching	200Ω, 500Ω
	operating temperature	0~40℃, relative humidity: ≤85%
	power supply	220V, 50Hz
	dimensions (L×W×H)	600×520×800mm (customizable)

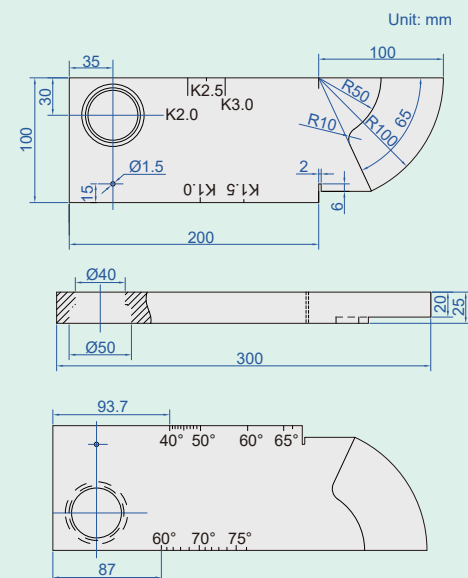
STANDARD DELIVERY

Main unit	1 pc
Mechanical system	1 pc
Control system	1 pc
Data processing system	1 pc
Ultrasonic transducer	2 pcs



STANDARD TEST BLOCK FOR ULTRASONIC FLAW DETECTION

- According to GB/T1134 standard
- Used for calibrating ultrasonic instrument, such as horizontal linearity, vertical linearity, sensitivity, resolution, probe incidence angle, refraction angle, etc.

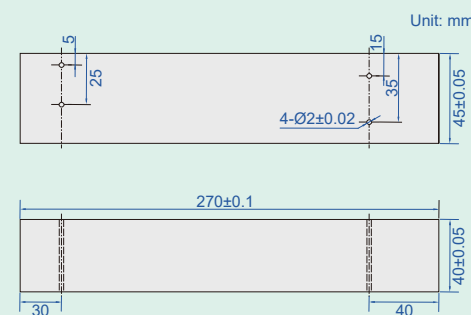


SPECIFICATION

Code	Material	Casing dimension (L×W×T)
UFD-CSK2	20#	300×100×25mm

STANDARD TEST BLOCK FOR ULTRASONIC FLAW DETECTION

- Conforms to standard NB/T47013
- The test block is designed according to ultrasonic testing requirements on pressure-bearing welded joints (Type I)
- Applicable to tests on welded joints (Type I) by oblique probe and straight probe with work piece thickness range from 6mm to 40mm

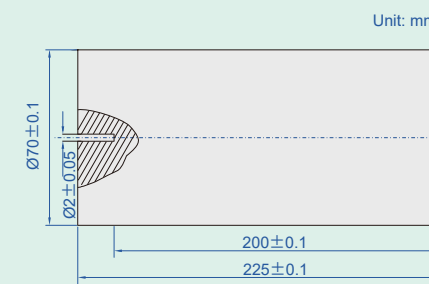


SPECIFICATION

Code	UFD-CSK-2A
Material	20#
Measuring range	≥6~40
Transverse hole depth (transverse wave detection)	5、10、15、25、35
Transverse hole depth (longitudinal wave detection)	5、10、15、20、30、40

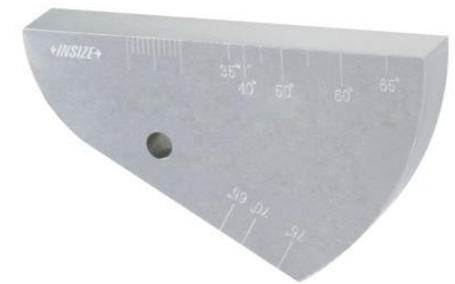
STANDARD TEST BLOCK FOR ULTRASONIC FLAW DETECTION

- The test block is used to determine sensitivity margins of straight probe and instrument's comprehensive performances, to adjust sensitivity of flaw detection, to determine sizes of defects and to determine performances indicators and their shapes, e. g. vertical linearity, of instrument



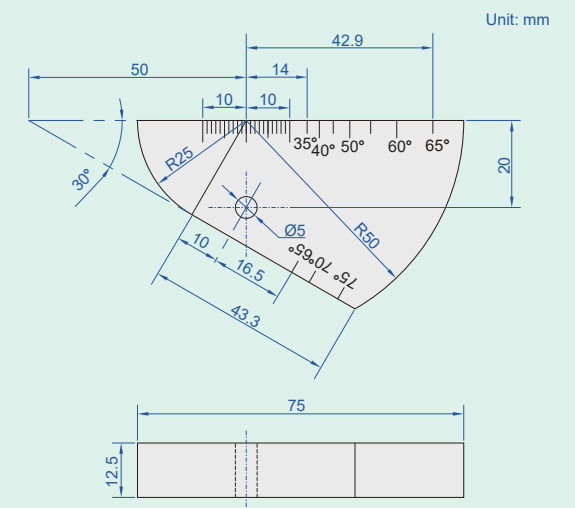
SPECIFICATION

Code	UFD-CS1-5
Material	45#
Diameter	Ø70
Lengths	225
Apertures (hole depth)	Ø2 (25)



BULLS HORN TEST BLOCK

- According to ISO 2400 standard
- Used for calibrating angle probes, setting sensitivity and detecting welds
- Lightweight, easy to carry, suitable for on-site use



SPECIFICATION

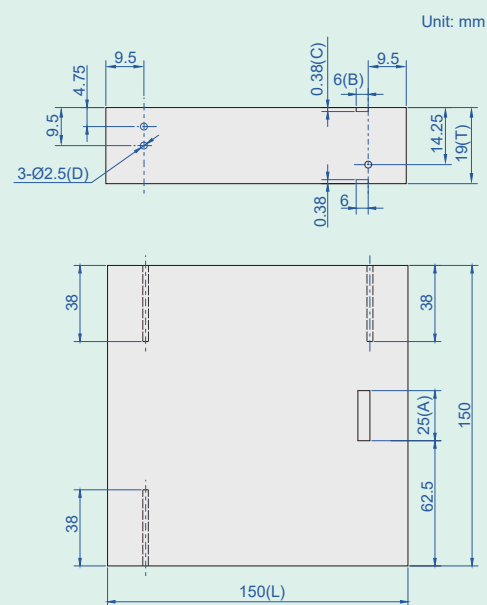
Code	Material	Arc radius
UFD-BHT-V2	20#	R50mm



UFD-ASM-T19

NON-PIPE WELD TEST BLOCKS

- According to ASME standard
- Used for calibrating ultrasonic instruments and setting reference sensitivity
- Inspection of materials with a diameter greater than 500 mm



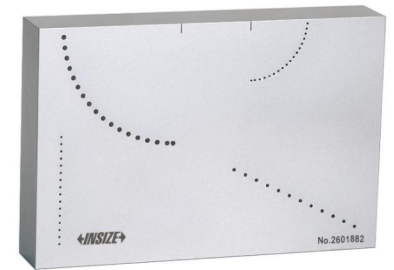
SPECIFICATION

(mm)

Code	Material	Weld thickness	Thickness (T)	Length (L)	Hole diameter (D)	Groove dimension (A×B×C)
UFD-ASM-T19	20#	≤25	19	150	Ø2.5	25×6×0.38
UFD-ASM-T38	20#	>25~50	38	150	Ø3.0	25×6×0.76
UFD-ASM-T75	20#	>50~100	75	200	Ø5.0	25×6×1.5
UFD-ASM-T125	20#	>100	125	380	Ø6.5	25×6.4×2.5



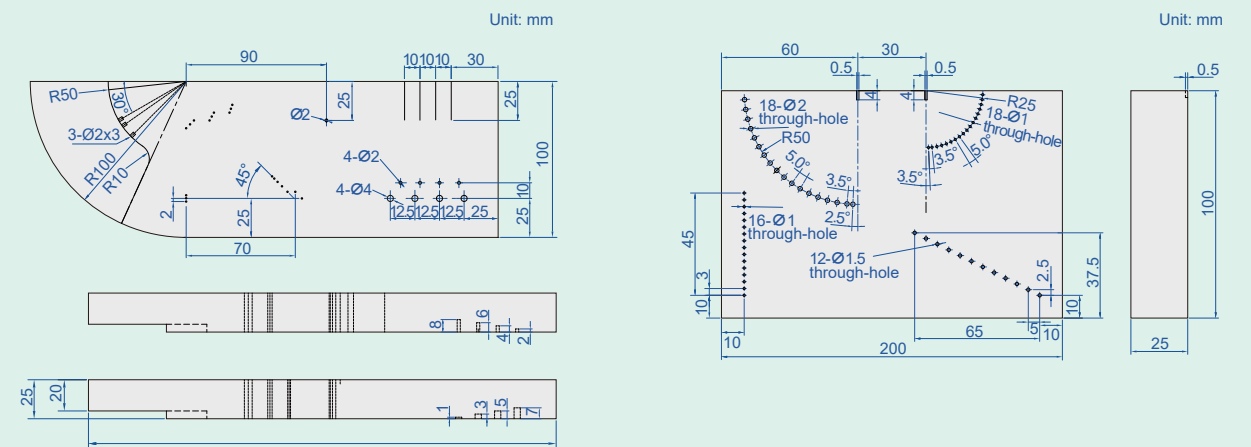
UFD-KPA (type A)



UFD-KPB (type B)

STANDARD TEST BLOCKS FOR ULTRASONIC PHASED ARRAY DETECTION

- Conforms to NB/T 47013 standard
- Simulate defects in standard through-holes and blind holes at different locations, angles, and sizes



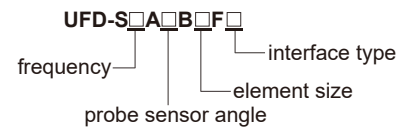
SPECIFICATION

Code	Material	Casing dimension (L×W×T)	Features
UFD-KPA	20#	300×100×25mm	lateral resolution (angle), longitudinal resolution (depth), short-defect resolution
UFD-KPB	20#	170×100×25mm	lateral dimensional error, longitudinal dimensional error, sector angle error, angular resolution



UFD-S4A1B1F5

Code explanation:



Code example:

UFD-S4A1C1F5	S4 -frequency 2.5MHz
	A1 -probe sensor angle 45°
	B1 -element size 6×6mm
	F5 -interface type Q6

SINGLE-ELEMENT ANGLE PROBES

CUSTOMIZABLE

- Suitable for inspection of weld seams, pipe fittings, pressure vessels, turbine blades, wheel axles, etc
- Made of metal, sturdy, good shielding performance
- Oblique incidence transverse wave detection by direct probe contact with the workpiece surface

SPECIFICATION

Frequency	Probe sensor angle	Element size	Casing dimension (L×W×H)	Interface type
2.5MHz (S4) 4.0MHz (S5) 5.0MHz (S6) 7.5MHz (S7)	45° (A1) 56.3° (A2) 63.4° (A3) 68.2° (A4) 71.6° (A5)	6×6mm (B1)	24×15×18mm	Q6 (F5)
2.5MHz (S4) 5.0MHz (S6)	45° (A1) 56.3° (A2) 63.4° (A3) 68.2° (A4) 71.6° (A5)	9×9mm (B2) 8×10mm (B3) 8×12mm (B4) 10×10mm (B5)	29×14×22mm	
1.0MHz (S2) 2.5MHz (S4) 5.0MHz (S6)	45° (A1) 56.3° (A2) 63.4° (A3) 68.2° (A4) 71.6° (A5)	13×13mm (B6) 14×14mm (B7) 10×16mm (B8)	35×19×26mm	Q9 (F2)
0.5MHz (S1) 2.5MHz (S4) 5.0MHz (S6)	45° (A1) 56.3° (A2) 63.4° (A3) 68.2° (A4) 71.6° (A5)	16×16mm (B9) 18×18mm (B10) 20×20mm (B11)	49×27×35mm	

STANDARD DELIVERY

Probe	1 pc
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OPTIONAL PROBE WIRE

Code	probe connector plug type
UFD-PC01	Q9-Q9
UFD-PC02	C5-Q9
UFD-PC03	C6-Q9
UFD-PC04	C9-Q9
UFD-PC05	Q6-Q9

optional probe connector plug type



UFD-S6D1F1

UFD-S2D5F2

UFD-S3D9F4

with soft film

Code explanation:



Code example:

UFD-S6D1F1	S6-frequency 5.0MHz
	D1-element size Ø6mm
	F1-interface type C6

SINGLE-ELEMENT STRAIGHT PROBES

CUSTOMIZABLE

- Suitable for detecting defects on parallel surfaces or near-parallel surfaces
- Made of metal, sturdy, good shielding performance
- Vertical incident longitudinal wave detection by direct probe contact with the workpiece surface
- The contact surface is made of hard wear-resistant material, which matches well with the metal acoustic impedance, high sensitivity and strong penetration

optional probe connector plug type



SPECIFICATION (WITHOUT SOFT FILM PROBE)

Frequency	Element size Casing dimension	Interface type
5.0MHz (S6) 7.5MHz (S7) 10.0MHz (S8)	Ø6mm (D1) 12×25×10mm	C6 (F1)
2.5MHz (S4) 5.0MHz (S6) 7.5MHz (S7) 10.0MHz (S8)	Ø8mm (D2) 15×28×11mm	
2.5MHz (S4) 5.0MHz (S6) 7.5MHz (S7) 10.0MHz (S8)	Ø10mm (D3) 16×28×13mm	
0.5MHz (S1) 1.0MHz (S2) 2.5MHz (S4) 5.0MHz (S6)	Ø12mm (D4) 20×39×16mm	
1.0MHz (S2) 2.5MHz (S4) 5.0MHz (S6)	Ø14mm (D5) 24×31×17mm	
0.5MHz (S1) 1.0MHz (S2) 2.5MHz (S4) 5.0MHz (S6)	Ø20mm (D6) 30×32×23mm	
0.5MHz (S1) 1.0MHz (S2) 2.5MHz (S4)	Ø30mm (D7) 42×40×34mm	

SPECIFICATION (WITH SOFT FILM PROBE)

Frequency	Element size Casing dimension	Interface type
2.0MHz (S3) 4.0MHz (S5) 5.0MHz (S6)	Ø10mm (D9) 25×47×13mm	C5 (F3)
0.5MHz (S1) 1.0MHz (S2) 2.0MHz (S3) 4.0MHz (S5)	Ø20mm (D10) 35×50×23mm	C9 (F4)
0.5MHz (S1) 1.0MHz (S2) 2.0MHz (S3) 4.0MHz (S5)	Ø24mm (D11) 44×56×30mm	
0.5MHz (S1) 1.0MHz (S2) 2.0MHz (S3) 4.0MHz (S5)	Ø30mm (D12) 50×57×33mm	

STANDARD DELIVERY

Probe	1 pc
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OPTIONAL PROBE WIRE

Code	probe connector plug type
UFD-PC01	Q9-Q9
UFD-PC02	C5-Q9
UFD-PC03	C6-Q9
UFD-PC04	C9-Q9



UFD-S5A6

Code explanation:

UFD-S ☐ A ☐

frequency probe sensor angle

Code example:

UFD-S5A6	S5-frequency 4.0MHz
	A6-probe sensor angle 40°

DUAL-ELEMENT ANGLE PROBES

CUSTOMIZABLE

- Suitable for small diameter thin-walled pipe inspection
- Two element, one transmitter and one receiver
- Oblique incidence transverse wave detection by direct probe contact with the workpiece surface
- High near-surface resolution, small blind zones
- Higher sensitivity can be obtained in the focal length range

SPECIFICATION

Frequency	Probe sensor angle	Focal length	Element size	Casing dimension (L×W×H)	Interface type
4.0MHz (S5)	40° (A6)	10~20mm	3.5×10mm	25×16×26mm	C5
5.0MHz (S6)	60° (A7)				
	70° (A8)				

STANDARD DELIVERY

Probe	1 pc
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OPTIONAL PROBE WIRE

Code	probe connector plug type
UFD-PC06	C5-L5

**optional probe
connector plug type**



UFD-S6L1E1F1

Code explanation:

UFD-S ☐ L ☐ E ☐ F ☐

frequency focal length element size interface type

Code example:

UFD-S6L1E1F1	S6 -frequency 5.0MHz
	L1 -focal length 5mm
	E1 -element size Ø6mm
	F1 -interface type C6

DUAL-ELEMENT STRAIGHT PROBES

CUSTOMIZABLE

- | | |
|--|---|
| <ul style="list-style-type: none"> • Suitable for detecting defects near the surface and detecting parallel surfaces or near-parallel surfaces • Two element, one transmitter and one receiver • Vertical incident longitudinal wave detection by direct probe contact with the workpiece surface | <ul style="list-style-type: none"> • The contact surface is made of hard wear-resistant material, which matches well with the metal acoustic impedance, high sensitivity and strong penetration • High near-surface resolution, small blind zones • Higher sensitivity can be obtained in the focal length range |
|--|---|

STANDARD DELIVERY

Probe	1 pc
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OPTIONAL PROBE WIRE

Code	probe connector plug type
UFD-PC02	C5-Q9
UFD-PC03	C6-Q9

optional probe connector plug type



To be continued

Continued from previous page

SPECIFICATION

Frequency	Focal length	Element size	Casing dimension (L×W×H)	Interface type
5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	Ø6mm (E1)	33×24×10mm	C6 (F1)
2.5MHz (S4) 5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	Ø10mm (E2)	31×24×13mm	
2.5MHz (S4) 5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	Ø14mm (E3)	33×25×18mm	
1.0MHz (S1) 2.5MHz (S4) 5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	Ø20mm (E4)	33×30×24mm	
2.0MHz (S3) 4.0MHz (S5) 5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	3.5×10mm (E5)	44×25×14mm	
1.0MHz (S1) 2.0MHz (S3) 4.0MHz (S5) 5.0MHz (S6)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	Ø20mm (E6)	50×35×23mm	C5 (F3)
1.0MHz (S1) 2.0MHz (S3) 4.0MHz (S5)	5mm (L1) 10mm (L2) 15mm (L3) 20mm (L4) 25mm (L5) 30mm (L6)	7×10mm (E7)	67×44×28mm	

2. Magnetic Particle Flaw Detector

The instrument operates based on differences in magnetic permeability of ferromagnetic materials. A magnetic field is applied to magnetize the workpiece. Where surface or near-surface defects (e.g. cracks) are present, leakage magnetic fields form at the defect locations. Magnetic particles (dry or wet) are applied to the workpiece surface and gather under the influence of leakage fields, creating magnetic indications that replicate the defect geometry. Defects are evaluated by visual examination of these indications.

Applicable Materials:

Suitable exclusively for ferromagnetic materials, Non-ferromagnetic materials

- ☒ ferromagnetic materials, including carbon steel, alloy steel, cast iron, ferromagnetic stainless steel, etc.
- ☐ Non-ferromagnetic materials such as aluminium, copper and austenitic stainless steel are not inspectable by this method.

Applicable Workpieces:

Components susceptible to surface and near-surface cracking, including shafts, gears, bearings, bolts, springs and welds. Typical examples are automotive engine crankshafts, wind equipment flange welds and mechanical transmission gears.





MPI-P110

PORTABLE MAGNETIC PARTICLE FLAW DETECTORS

- Conformity to standards JB/T 7411-2012, ASTM E1444-05, ASTM E709, EN10228-1: 1999, ISO 9934, ASTM E3024
- Multiple power supply modes available



SPECIFICATION

Code		MPI-P110	MPI-P220	MPI-P330
Magnetic field strength		>2KA/m		
Sensitivity		15/50 engraved groove clearly displayed on A1 standard sensitivity test piece		
Illumination		—	white light >2320 Lux	UV Lamp ≥5220μW/cm²
Duty cycle		>50% maximum excitation time 90 seconds		>30%
Lifting Power	AC	≥4.5kg (44N)		
	DC	≥18.1kg (177N)		
Magnetic pole spacing		0-230mm		
Magnetic pole size		22×22mm		
Power supply		AC 220V, 50/60Hz (DC battery pack or AC battery pack are optional)		
Power cord		european power cord		
Operating temperature		-10-40°C		
Relative humidity		<80% (no condensation)		
Dimension (L×W×H)		235×50×195mm		
Net weight		2.3kg		

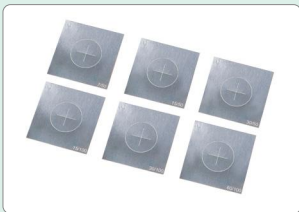
*European power cord supplied as standard; other types of power cords are optional



DC battery pack 4400mAh (optional)



AC battery pack 6600mAh (optional)



A1 standard sensitivity test piece (optional)



45N lifting force test block (optional)



177N lifting force test block (optional)



magnetic pole slope angle A (optional)



magnetic pole slope angle B (optional)



bag (optional)

To be continued

Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
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OPTIONAL ACCESSORY

DC battery pack	MPI-PDC440
AC battery pack	MPI-PAC660
A1 standard sensitivity test piece	MPI-PA1
45N lifting force test block	MPI-P45N
177N lifting force test block	MPI-P177N
Magnetic pole slope angle A	MPI-PMA
Magnetic pole slope angle B	MPI-PMB
Bag	MPI-PBG



PORTABLE AC MAGNETIC PARTICLE FLAW DETECTORS (ADVANCED TYPE)
CODE MPI-M510

- Conformity to standards JB/T 7411-2012, ASTM E709-08, ASTM E1444, EN 10228-1:1999, ISO 9934
- Light weight ergonomic design reduces operator muscle fatigue
- Magnetic pole feet of the movable joints can make good contact with any shape of parts

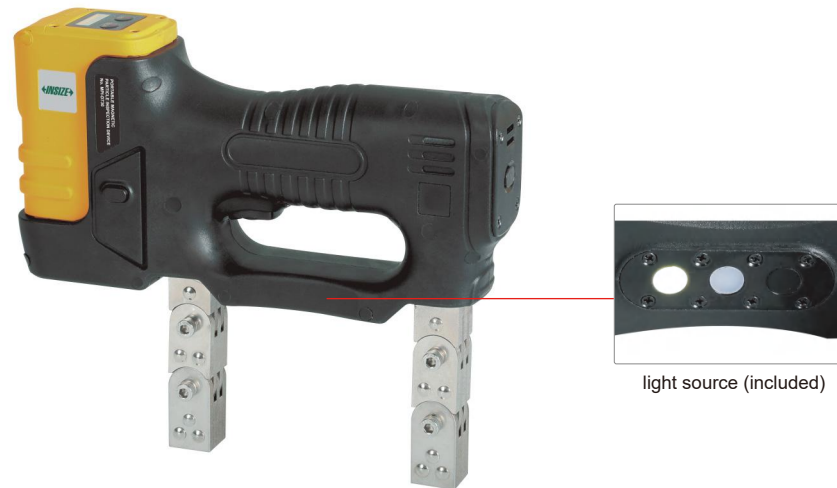


SPECIFICATION

Code	MPI-M510-P	MPI-M510-K	MPI-M510-B
Amps	AC 2.5A		
Sensitivity	15/100 engraved groove clearly displayed on A1 standard sensitivity test piece		
Duty cycle	>50% maximum excitation time 30 seconds		
Lifting Power	>4.5kg (44N)		
Magnetic pole spacing	50-195mm		
Power supply	AC 220V, 50/60Hz		
Power cord	european type	british type	brazilian type
Operating temperature	-10-40°C		
Dimension (L×W×H)	220×42×175mm		
Net weight	2.3kg		

STANDARD DELIVERY

Main unit	1 pc
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light source (included)

AC/DC MAGNETIC PARTICLE FLAW DETECTOR (EXCELLENT TYPE) CODE MPI-D730

- Conformity to standards JJF 1458, NB/T 47013.4, GB/T 15822.3, JB/T 7411, JB/T 14223, JB/T 13936
- Integrated design of probe and lithium battery, no need for external power cord
- OLED display shows battery level and voltage
- Available DC or AC flaw detection modes, spot magnetization or continuous magnetization operating modes, ultraviolet or white light illumination modes
- Can detect no-load conditions and automatically adjust the current to prevent overload damage

SPECIFICATION

Sensitivity		15/100 engraved groove clearly displayed on A1 standard sensitivity test piece
Lifting power	AC	≥8kg (78.4N)
	DC	≥20kg (196N)
Magnetic field strength	pole pitch 75mm	2kA/m (2.5mT)
	vertical poles 93mm	1.48kA/m (1.85mT)
	pole pitch 140mm	1.35kA/m (1.35mT)
Light source	white light illuminance	≥2000Lux
	ultraviolet Irradiance	≥7000μW/cm ²
Duty cycle		50% maximum excitation time 600 seconds
Magnetic pole spacing		48~140mm
Battery voltage		14.8V
Battery capacity		12800mAh
Operating temperature		-10~40°C
Dimension (L×W×H)		219×54×191mm
Net weight		1.9kg

STANDARD DELIVERY

Main unit	1 pc
lithium battery	2 pcs
45°magnetic pole oblique feet	2 pcs
Instrument vest	1 pc
Auxiliary tool	1 pc
Lithium-ion battery charger	2 pcs



45°magnetic pole oblique feet (included)



A-type magnetic pole oblique feet (optional)



large inclined magnetic pole feet (optional)

OPTIONAL ACCESSORY

A-type magnetic pole oblique feet	MPI-DA1
large inclined magnetic pole feet	MPI-DA2



light source (included)

PIPELINE MAGNETIC PARTICLE FLAW DETECTOR CODE MPI-G610

- Conformity to standards JJF 1458, NB/T 47013.4, GB/T 15822.3, JB/T 7411, JB/T 14223, JB/T 13936
- Integrated design of probe and lithium battery, no need for external power cord
- OLED display shows battery level and voltage
- Available DC or AC flaw detection modes, spot magnetization or continuous magnetization operating modes, ultraviolet or white light illumination modes
- Can detect no-load conditions and automatically adjust the current to prevent overload damage
- Constant magnetic control function for auto-off when power drop makes lifting force unqualified for testing, guaranteeing test sensitivity
- Can detect pipeline welds with a diameter of ≥80mm and flat plate welds
- Magnetic pole feet rotates to adjust angle for different diameter workpieces, fitting pipe curved surfaces
- Magnetic pole feet are included for standard pipe weld and flat plate weld inspection

SPECIFICATION

Sensitivity		15/100 engraved groove clearly displayed on A1 standard sensitivity test piece
Lifting power		≥12.04kg (118N)
Light source	white light illuminance	≥2000Lux
	ultraviolet Irradiance	≥7000μW/cm ²
Duty cycle		50% maximum excitation time 600 seconds
Magnetic pole spacing		100mm×100mm
Gap between magnetic pole and workpiece		≤0.5mm
Battery voltage		14.8V
Battery capacity		24000mAh
Operating temperature		-10~40°C
Dimension (L×W×H)		200×143×196mm
Net weight		3.6kg

STANDARD DELIVERY

Main unit	1 pc
lithium battery	2 pcs
Pipe slide rail magnetic pole feet	4 pcs
Flat slide sail magnetic pole feet	4 pcs
Instrument vest	1 pc
Auxiliary tool	1 pc
Lithium-ion battery charger	2 pcs



pipe slide rail magnetic pole feet (included)



flat slide sail magnetic pole feet (included)



ADJUSTABLE FREQUENCY MAGNETIC PARTICLE FLAW DETECTOR CODE MPI-CX50

- Deep penetration of the magnetic field, which allows the detection of artificial cracks from the surface up to a depth of about 8 mm from the surface
- For workpieces made of ferromagnetic materials with thin paint, plating, or other coverings on the surface, flaw detection can be performed without any treatment
- Magnetization current using digital MCU to regulate phase inverter current, no demagnetization is required after flaw detection
- Low standby energy consumption, high efficiency, adjustable frequency
- Compact size, light weight, portable type

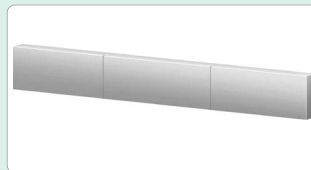


SPECIFICATION

Frequency		3Hz, 10Hz, 20Hz (adjustable)
Sensitivity		15/100 clearly displayed on A1 sensitivity test piece (20Hz)
Lifting power		≥44N (20Hz)
White light power		2W
Magnetic pole spacing		40~180mm
Lithium battery	voltage	12V
	current	1~2.4A
	capacity	10000mAh
	life	4~6h
	charging time	<6h
Operating temperature		-10~40℃
Dimension (L×W×H)		200×45×160mm
Net weight		2kg

STANDARD DELIVERY

Main unit	1 pc
Lithium battery	1 pc
Power adapter	1 pc
Test block	1 pc
Fuse	2 pcs



test block (included)



PERMANENT MAGNET YOKE FLAW DETECTOR CODE MPI-PM177

- Strong magnetism, small size, light weight, no need for charging, portable use
- Suitable for electric power, petroleum, chemical, machinery and other industries

SPECIFICATION

Lifting power	>18kg
Magnetic pole spacing	50~200mm (continuously adjustable)
Dimension (L×W×H)	175×160×45mm
Net weight	2.25kg

STANDARD DELIVERY

Main unit	1 pc
Iron block	1 pc



FLUORESCENT MAGNETIC PARTICLE FLAW DETECTOR CODE MPI-FX1000

CAN BE CUSTOMIZED ACCORDING TO CUSTOMER NEEDS

- Conform to standards GB/T15822.1-3, GB3721-83, JB/T 8290-2011, ASTM E1444-2016
- Specialized in non-destructive testing of the whole surface of ferrous materials
- With automatic program, it can realize a series of semi-automatic actions such as workpiece clamping, spraying, 360° rotation, compound magnetization, demagnetization, and releasing
- It has high inspection efficiency, low labor intensity of operators, and reliable practicality
- Touch screen
- With magnetization abnormality alarm to prevent the leakage of detection
- With independent stirring pump to ensure that the magnetic particle does not precipitate
- Suitable for non-destructive testing of various parts in aviation, aerospace, military, railroad, automobile, metallurgy, petrochemical, shipbuilding, pressure vessel and other industries

SPECIFICATION

Circumferential magnetizing current	AC: 0~1000A
Longitudinal magnetization potential	AC: 0~12000AT
Electrode spacing	0~400mm adjustable (pneumatic/manual)
Magnetization sensitivity	15/50 clearly displayed on A sensitivity test piece
Duty cycle	≥25%, continuous magnetization time maximum 3s
Magnetization method	circumferential magnetization, longitudinal magnetization, compound magnetization
Clamping method	pneumatic clamping
Running mode	pneumatic/manual
Electrode plate	Ø100mm
Magnetizing coil	coil inner diameter Ø200mm 2 pcs, coil turns 6 turns
Demagnetization	automatic attenuating demagnetization, residual magnetism ≤0.3mT
Ultraviolet irradiance	≥3000μW/cm ² (calibration at a distance of 381mm)
Power supply	380V three-phase alternating current, 50Hz
Air supply	0.4~0.7MPa
Operation environment	temperature: -5~45°C, relative humidity: ≤90%
Dimension (L×W×H)	1900×800×1750mm
Net weight	700kg

Continued from previous page

STANDARD DELIVERY

Electrical control system	1 pc
Magnetized particle system	2 pcs
Spray system	1 pc
Magnetic suspension recovery device	1 pc
Ultraviolet flaw detection lamp	1 pc
Demagnetization system	1 pc



**AUTOMATIC FLUORESCENT MAGNETIC PARTICLE
INSPECTION TESTING SYSTEM**
CODE RBT-MPI20

CAN BE CUSTOMIZED ACCORDING
TO CUSTOMER NEEDS

- 6-axis industrial robot for high speed and precision, IP67, triple protection
- Automated loading and unloading via robotic arms, automatic magnetic particle testing, and real-time feedback of inspection results to the control system
- Control system Tcp/IP via bus communication, high speed, high efficiency and easy to extend

To be continued

Continued from previous page

OPERATION PROCESS

- step 1: place the workpiece manually on the positioning block in the loading area and position it on the right side against the edge.
- step 2: press the reset button to return the robot and cylinder to the initial position.
- step 3: press the start button, the system prompts whether the workpiece is correctly placed and click OK.
- step 4: the robot grips the workpiece and places it in the transplanting station.
- step 5: the workpiece is subjected to spray magnetization testing, followed by visual inspection and the automatic generation of a measurement report.
- step 6: after demagnetizing the workpiece, the transplanting station moves to the outer handling station and the robot removes the workpiece.
- step 7: the robot places the workpiece in the OK or NG station according to the test results.

SPECIFICATION

Robot	robot arm spreading	720mm
	Max working speed	4000mm/s
	Max weight of workpiece	8kg
	repeat positioning accuracy	±0.02mm
	number of control axis	6
	communication protocols	ethernet Tcp/IP
	net weight	100kg
Magnetic particle inspection	circumferential magnetizing current	AC: 0~1000A
	longitudinal magnetization potential	AC: 0~12000AT
	electrode spacing	0~400mm adjustable (pneumatic/manual)
	magnetization sensitivity	15/50 clearly displayed on A sensitivity test piece
	duty cycle	≥25%, continuous magnetization time maximum 3s
	magnetization method	circumferential magnetization, longitudinal magnetization, compound magnetization
	clamping method	pneumatic clamping
	running mode	pneumatic/manual
	electrode plate	Ø100mm
	magnetizing coil	coil inner diameter Ø200mm 2 pcs, coil turns 6 turns
	demagnetization	automatic attenuating demagnetization, residual magnetism≤0.3mT
	ultraviolet irradiance	≥3000μW/cm ² (calibration at a distance of 381mm)
	power supply	380V three-phase alternating current, 50Hz
	air supply	0.4~0.7MPa
	operation environment	temperature: -5~45°C, relative humidity: ≤90%
	dimension (L×W×H)	1900×800×1750mm
	net weight	700kg

STANDARD DELIVERY

Robotic system	robot body
	robot control cabinet
	programming guide
Electrical control system	1 pc
Magnetized system particle	2 pcs
Spray system	1 pc
Magnetic suspension recovery device	1 pc
Ultraviolet flaw detection lamp	1 pc
Demagnetization system	1 pc



UV FLAW DETECTION LIGHT CODE MPI-HD130

- UV-B content is 0
- No need to wait, instantly reaches 100% power
- Supplied with glass filter
- External surface temperature increase <5K (5°C) for continuous working



SPECIFICATION

UV (Light) Lux	6000~11000μW/cm ²
UV light power	UV LED-3W
FLUX error	±10% (at 0°C~40°C)
Lighting characteristics	center lighting
Wavelength	365nm±3nm (UVA), at temperature 25°C
Power supply	3.7V rechargeable lithium battery
Battery capacity	2600mAh
Charging time	2h~3h
Battery life	UV LED 3h~4h
Dimension	180×47mm
Net weight	260g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Battery	2 pcs
Charger	1 pc



RECHARGEABLE UV FLAW DETECTION LIGHT CODE MPI-HF360

- UV-B content is 0
- Without preheating, instant start, instant on/off, no need to wait
- Supplied with glass filter
- External surface temperature increase <8K (8°C) for continuous working



SPECIFICATION

UV (Light) Lux	about 6000μW/cm ²
UV light power	UV LED-12VA
Covering area	diameter approximately 300mm (calibrated at 381mm distance)
FLUX error	±10% (at 0°C~40°C)
White light content	≤20Lux
Lighting characteristics	center lighting
Wavelength	365nm±3nm (UVA), at temperature 25°C
Power supply	10.8V rechargeable lithium battery
Battery capacity	3200mAh
Charging time	3h~4h
Battery life	UV LED 5h~6h
Dimension	175×75×170mm
Net weight	750g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Battery	2 pcs
Charger	1 pc
Goggles	1 pc



goggles (included)



RECHARGEABLE UV/WHITE LIGHT FLAW DETECTION LIGHT CODE MPI-HW369

- UV-B content is 0
- With UV and white light dual function, one hand switching
- Without preheating, instant start, instant on/off, no need to wait
- Supplied with glass filter
- External surface temperature increase <8K (8°C) for continuous working



SPECIFICATION

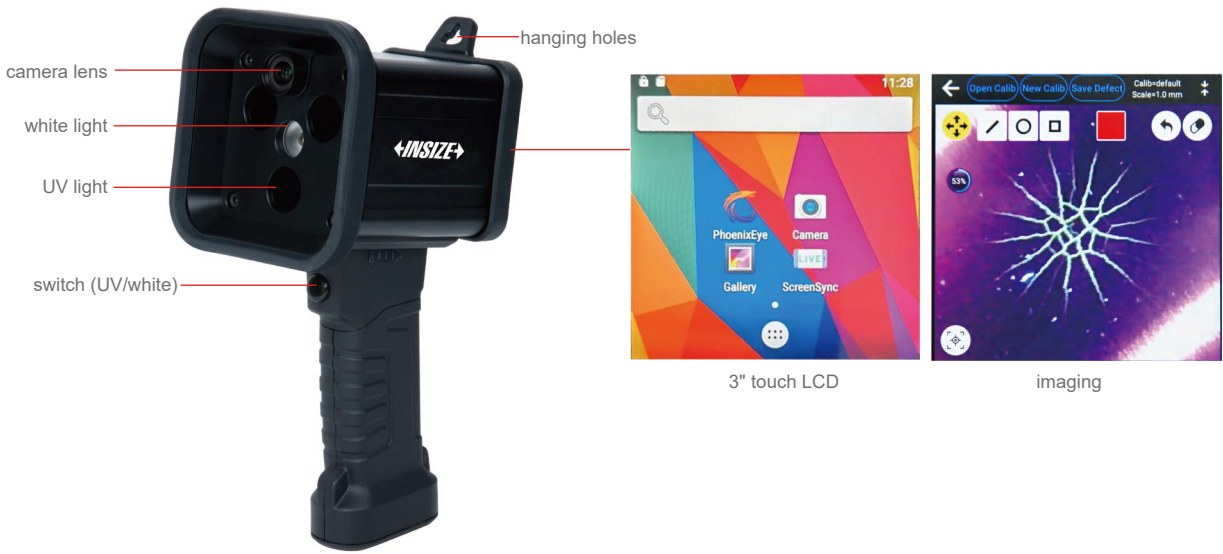
UV (Light) Lux	>6000μW/cm ²
White light brightness	>1000Lux
Lamp bead power	UV LED-9VA, white light-3VA
Covering area	300mm (at 381mm distance)
FLUX error	±10% (at 0°C~40°C)
White light content	≤20Lux
Lighting characteristics	center lighting
Wavelength	365nm±3nm (UVA), at temperature 25°C
Power supply	10.8V rechargeable lithium battery
Battery capacity	3200mAh
Charging time	3h~4h
Battery life	UV LED 5h~6h, white light 7h
Dimension	175×75×170mm
Net weight	750g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Battery	2 pcs
Charger	1 pc
Goggles	1 pc



goggles (included)



INTELLIGENT IMAGE UV FLAW DETECTION LIGHT
CODE MPI-SC608

- UV-B/C content is 0
- Without preheating, instant start, instant on/off, no need to wait
- Continuous irradiation surface spot uniform, no dark areas, no point-like strong light source
- 13M UV-resistant specialized lens for high-definition photos and videos
- Precise measurement of small defects
- High-definition defects can be freely magnified up to 12 times (3 times optical magnification, 4 times electronic magnification)
- Android system, free to download applications
- Support WIFI, USB, Bluetooth data transmission function, and can realize real-time synchronization between light interface and computer screen
- Languages: Chinese, English, French, German, Japanese



goggles (included)



surveyor's gauge (optional)

To be continued

Continued from previous page

SPECIFICATION

UV (Light) Lux	about 4000μW/cm²
Light source	3 UV LED's, 1 white LED
Covering area	Ø180mm (at 381mm distance)
White light content	<5Lux
Minimum working distance	≤13cm
Camera pixels	13M
Display	3" touch LCD
Display resolution	720×720
Camera focus	auto focus or manual focus
White balance	adjust white balance automatically
Internal storage	32GB
Data transmission	USB, WIFI, Bluetooth
Operating system	android 6.0
Power supply	rechargeable lithium battery≥4hours, power adapter (for continuous use)
Dimension	175×80×180mm
Net weight	880g (including battery)

STANDARD DELIVERY

Main unit	1 pc
Battery	2 pcs
Charger	1 pc
Power adapter	1 pc
Data cable	1 pc
Goggles	1 pc
4G USB flash disk	1 pc
Screwdriver	1 pc

OPTIONAL ACCESSORY

Surveyor's gauge	MPI-SC608-AW
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SPECIFICATION (OPTIONAL)

Code	MPI-SC608-AW
Defect measurement range	0.01-7mm
Camera pixels	2M
UV light	about 14000μW/cm²
White light	about 2200Lux



octagonal single sided copper

octagonal double-sided copper

adjustable thread round

MAGNETIC FIELD INDICATOR SET

- Conformity to standards JB4730-94, ASTM E709, ASTM A275, JB3965-85
- Used to check the magnetic powder flaw detection equipment, the comprehensive performance of the magnetic powder magnetic suspension, and whether the operation method is correct, and reflect the strength and direction of the magnetic field in the magnetized area



Code	Include
MPI-FT261	1. octagonal single sided copper: for pressure vessels and general mechanical products 2. octagonal double-sided copper: forged steel parts and general mechanical products 3. adjustable thread round: used to check the magnetic powder flaw detection equipment, the comprehensive performance of the magnetic powder magnetic suspension and operation method



MAGNETIC PARTICLE TYPE I TEST BLOCK
CODE MPI-MTU3

- Conform to standard ISO 9934-2: 2002
- The test block is a disc with natural cracks in the surface, it contain coarse cracks and fine cracks produced by grinding and stress corrosion
- The test block is permanently magnetized by a central conductor through the hole, evaluation of a detection media is made by visual or other methods

SPECIFICATION

Material	90MnCrV8
Magnetization method	1000A magnetization of DC center conductor



COMPOSITE MAGNETIC PARTICLE

- Composite magnetic particle eliminates the need for additional rust inhibitors, defoamers, and dispersants
- High sensitivity
- Clear, visible defect indication under UV light
- Excellent powder flowability
- Good dispersion stability
- Excellent surface wettability

Code	Description	Package/cans
MPI-CP30	1. suitable for surface and near-surface inspection of magnetizable parts 2. usage: simply mix and dilute the magnetic powder to the recommended concentration (3-7g/L) to form a high performance magnetic Suspension	1kg



FLUORESCENT MAGNETIC PARTICLE CONCENTRATE

- Good storage stability, can be used immediately after slight shaking
- Dilution with water is all that is needed to prepare the magnetic suspension, no additional dispersant is required
- Good wettability, even dispersion of the suspension, high inspection accuracy
- Good dispersion stability, small change in the concentration of the suspension, can reduce the amount of use

Code	Description	Package/bottle
MPI-CC20	1. suitable for surface and near-surface inspection of magnetizable parts (especially for on-line automatic inspection) 2. usage: dilute the suspension to the recommended concentration (0.5~1.0g/L) to formulate a high-performance magnetic suspension	500ml

3. Eddy Current Flaw Detector

Based on the eddy current effect of electromagnetic induction, a coil (probe) energized with alternating current is brought close to a conductive test workpiece, inducing eddy currents on the workpiece surface. If defects such as cracks or material inhomogeneity exist in the workpiece, the magnitude and phase of the eddy currents will change, causing variation in the coil impedance. The instrument detects these impedance changes and converts them into electrical signals to assess defects in the workpiece.

Applicable Materials:

All electrically conductive materials, including metals and certain conductive non-metals.

- ☒ metals (aluminum, copper, magnesium, titanium alloy, stainless steel, etc.).
- ☒ certain conductive non-metals such as carbon fibre composite materials.

Applicable Workpieces:

Tubes, plates, strips, wires, fasteners, blades and other components. Typical applications include aluminum alloy profiles, copper tubes, aero-engine blades, power cable conductors, etc.





PORTABLE EDDY CURRENT FLAW DETECTOR
CODE ECT-S610

- Real-time impedance plane and time base sweep display modes available
- Easy to operate menu interface, with universal knob operation is more convenient and fast
- Analyzes the signal waveform of the entire detection process, automatically measuring phase and amplitude.
- With amplitude and phase alarms and settable boundaries
- 5.7" industrial-grade TFT display, can work in outdoor and direct sunlight environment
- 500 sets of data, 500 sets of parameters, or 40 minutes of video storage
- Applicable to all kinds of metal materials and parts, such as weld cracks, copper pipe, seamless steel pipe, stainless steel pipe, folding, scars, pits, cracks, delamination and other defects, with high sensitivity



VIDEO



aluminum alloy flat test block (included)



stainless steel plate test block (included)



right angle probe (included)



pen probe (included)

To be continued

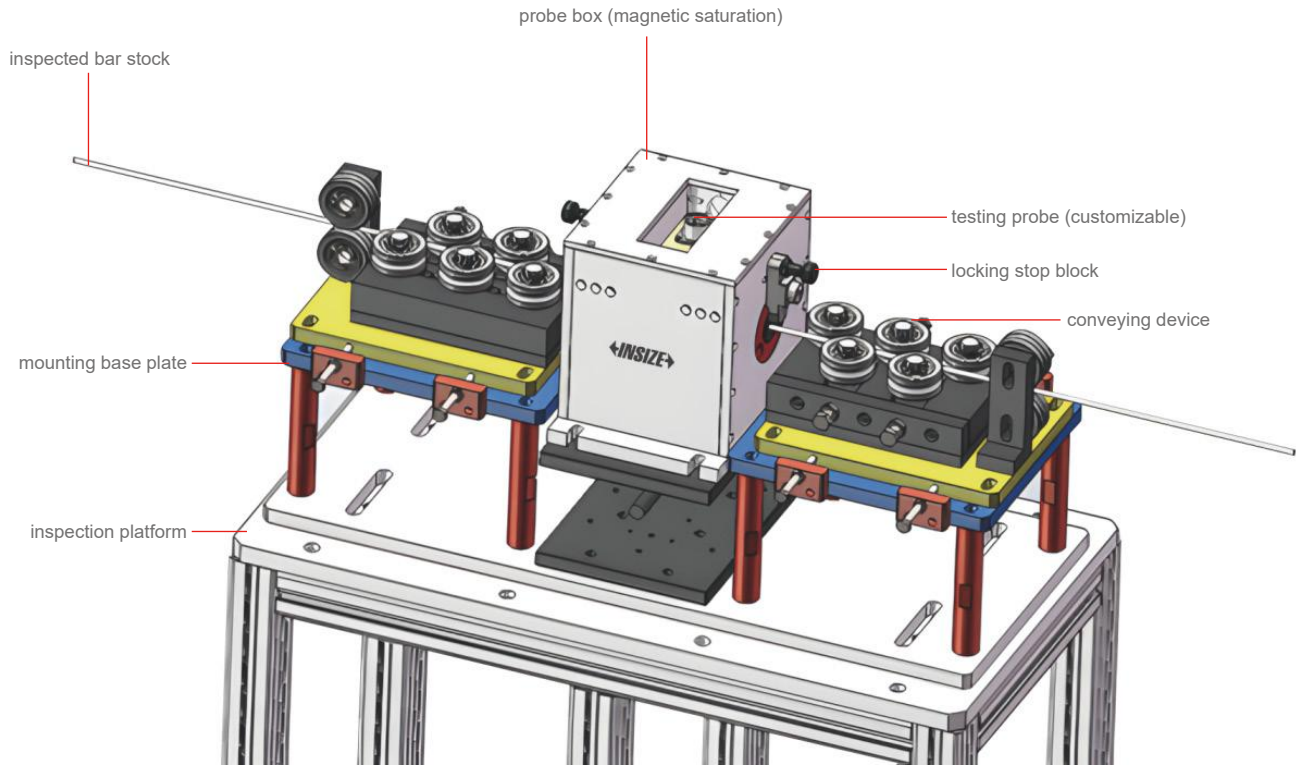
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SPECIFICATION

Detection channel	channel 1 (X1-Y1)、channel 2 (X2-Y2)、mixing channel
Detection frequency	2
Transmission frequency	50Hz~10MHz
Driving voltage	8 adjustable steps
Phase adjustment	360° (1° step)
Gain adjustment	0~90dB (step 0.1dB)
Sampling frequency	40MHz, 12-bit data acquisition
Digital filtering	high pass: 1Hz-1950Hz, low pass: 3Hz-2000Hz
Alarm mode	amplitude and phase alarm
Alarm box	alarm frame modes: off, amplitude phase, half-amplitude phase, square box
Probe Type	bridge
Display	time base, impedance plane
Auxiliary measurements	automatic/manual measurement of amplitude and phase
Balance mode	digital balance
Display modes	dot, line, fade mode
Interface	Q9 interface, USB HOST, Mini HDMI
Environmental temperature	-10~50°C
Relative humidity	20~95%RH
Power supply	rechargeable lithium battery, working time 6-8h
Dimensions (L×W×H)	251×171×52mm
Net weight	1.5kg

STANDARD DELIVERY

Main unit	1 pc
Pen probes 50K~500KHz	1 pc
Pen probes 500K~3MHz	1 pc
Right angle probes 50K~500KHz	1 pc
Right angle probes 500K~3MHz	1 pc
Aluminum alloy flat test block	1 pc
Stainless steel plate test block	1 pc
Hexagon bar wrench	1 pc
Probe connecting cable	1 pc
Mainframe backpack	1 pc
USB disk	1 pc
Power adapter	1 pc



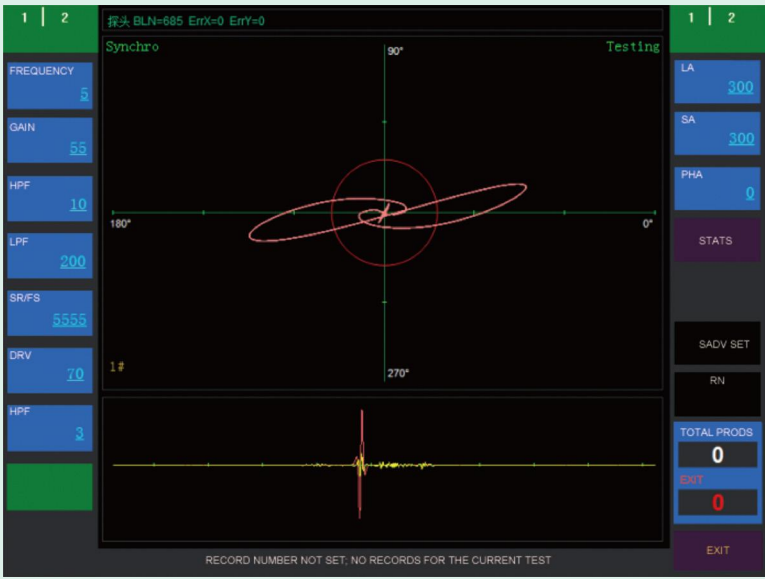
ONLINE EDDY CURRENT TESTING SYSTEM
CODE ECT-WZ□□□

CUSTOMIZABLE

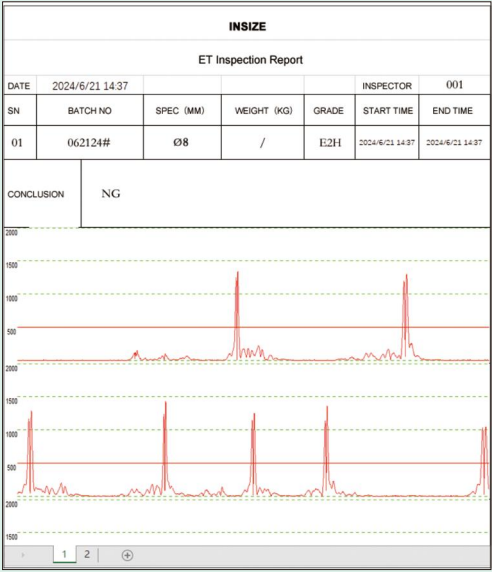
- Capable of high-speed data processing, with a detection speed up to 1~1200m/min
- High-performance DSP algorithm and signal processing enable the detection of microcracks with a depth of 0.05mm
- Professional digital filtering is adopted to effectively suppress various on-site interference signals, ensuring the accuracy and stability of detection
- Equipped with a dual-frequency detection configuration analysis function, along with two time-base display modes: impedance diagram and X/Y polar coordinate
- Original non-equal amplitude phase/amplitude alarm
- Features an impedance waveform delay blanking function
- Can automatically generate eddy current testing reports
- Can store a large number of various testing programs and testing data

To be continued

Continued from previous page



eddy current testing window



ET report display

SPECIFICATION

Measuring range	Ø1mm~Ø100mm (customizable)
Detection sensitivity	detection of 0.05×0.01×5mm (D×W×L) crack notch with signal-to-noise ratio≥10dB
Channel	1 (customizable)
Frequency range	100Hz~3.2MHz
Flaw detection speed	>0.5m/min
Gain range	23dB~82dB, 0.1dB step
Phase rotation	0~359°, 1°step
Gain ratio (Y/X)	0.1~10
Amplitude/Phase measurement	manual/automatic
Display mode	impedance/time base
High-pass filter	0~2000Hz
Low-pass filter	20~3000Hz
Impedance diagram range	5-step adjustable
Sampling rate	800~19999SPS adjustable
Probe drive	1%~100% adjustable
Start delay/end delay	1~6000m/s
Delay marking time	1~20m/s
Hardware alarm output	2
Working environment	temperature: -10~50°C, relative humidity: 20~95%
Power supply	220V, 50Hz
Dimensions (L×W×H)	1480×1190×1720mm (customizable)



real-time alarm

transducer
(can be customized according
to customer needs)

computer is not included

WIRE ROPE FLAW DETECTOR
CODE EST

CAN BE CUSTOMIZED ACCORDING TO CUSTOMER NEEDS

- On-line detection of wire rope internal and external wire breakage, abrasion, corrosion, deformation, loose strands, jumping wire, material changes and other defects
- The test results report can meet the standards of different industries at the same time with the number of broken wires and broken wires broken area and the ratio of the total area of broken wires in the form of display
- The use of computer USB interface direct sampling processing analysis, with online sound and light alarms and real-time display of the results of the function
- The sensor's circular structure, circumferential encirclement, and axial magnetization instantly magnetize the wire rope to saturation
- Stable work, reliable performance, high detection precision, strong anti-interference performance, accurate data
- Suitable for use in mines, ropeways, lifting equipment, elevators, port machinery, cable-stayed bridges, etc



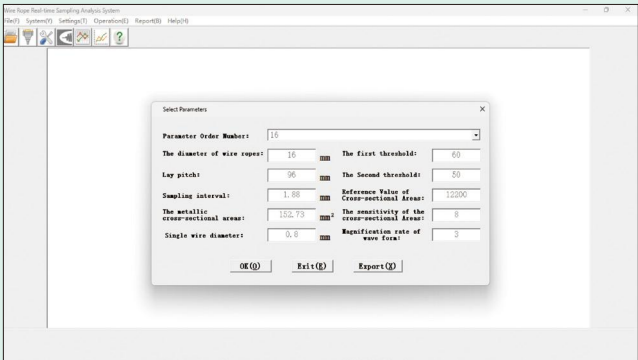
VIDEO

SPECIFICATION

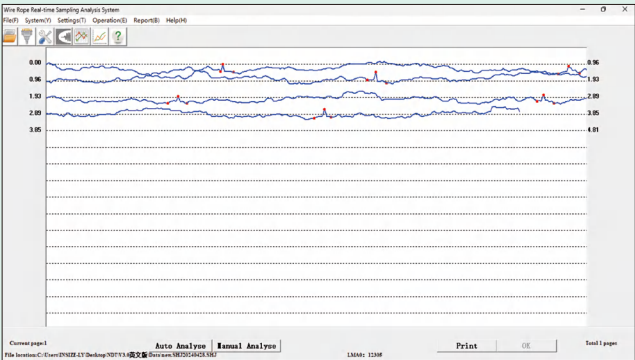
Detection range	Ø1.5~300mm (can be customized according to customer needs)
Detection efficiency	0.0~6.0m/s (relative speed between sensor and wire rope)
Optimal detection efficiency	0.3~1.0m/s
Allowable interval	0~15mm (allowable interval between guide sleeve and wire rope)
Optimal interval	2~6mm
Qualitative accuracy of wire breakage	99.99%
Tolerance on the number of broken wires	allow one root or one equivalent of algorithmic differences
Sensitivity error	±0.055%
Accuracy error	±0.2%
Length error	±0.2%
Power supply	power adapter
Operation condition	temperature: -20~50°C humidity: ≤85% pressure: 86kPa~106kPa
Net weight	<10kg

To be continued

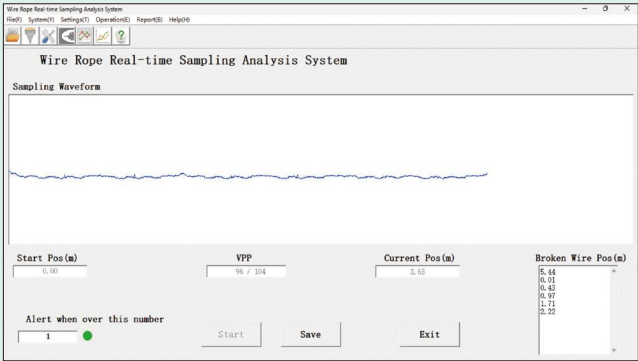
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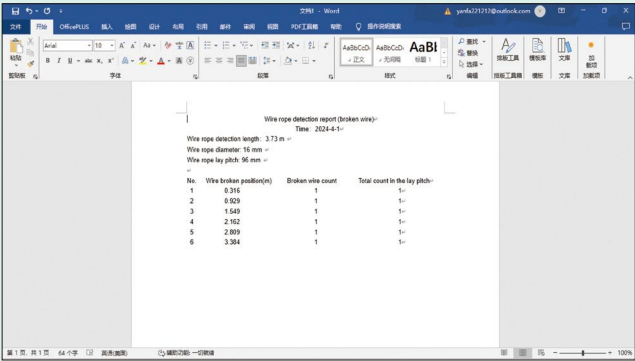
parameter setting



sampling analysis



real-time detection alarm



test report

STANDARD DELIVERY

Main unit (transducer)	1 pc
Real-time alarm	1 pc
9355 signal connection line	1 pc
USB transfer cable	1 pc
Flexible traction safety rope	1 pc
Software USB flash disk	1 pc

4. Radiographic Testing Equipment

This radiographic testing equipment leverages the penetrability and attenuation characteristics of X-rays, gamma rays, neutron rays and other ionizing rays. When rays penetrate a tested workpiece, internal defects such as pores and inclusions lead to inconsistent radiation attenuation relative to defect-free areas, resulting in differences in the intensity of transmitted rays. The transmitted rays are projected onto radiographic film for film radiography or electronic detectors for digital radiography, generating radiographic negatives or digital images that reflect the internal structural conditions of the workpiece. Operators can determine the type, size and location of internal defects by analyzing the acquired images.

Applicable Materials:

It is applicable to a wide range of materials, including metals and non-metallic materials. Its inspection performance is immune to the magnetic properties of test materials.

- ☒ metals such as steel, aluminum, copper and titanium
- ☒ non-metallic materials including concrete, plastics and composite materials

Applicable Workpieces:

This equipment is suitable for the inspection of castings, welded joints, thick-walled pipes, pressure vessels, nuclear reactor components and other industrial workpieces. Typical application scenarios cover cast steel valves, petroleum pipeline welds, aero-engine casings and internal steel reinforcements in concrete structures.





RXT-HC020A

VARIABLE FREQUENCY PORTABLE X-RAY FLAW DETECTORS

- High immunity to interference, especially for generator-powered operation
- Quick and accurate selection of exposure parameters by knob, easy to operate
- Delayed high-voltage activation allows operator to evacuate hazards in time
- Slow rise and fall of the high voltage protects the X-ray generator
- Auto work-rest in 1:1 mode, max continuous exposure 5 minutes
- Training mode available to prevent X-ray generator damage from long-term inactivity
- Over-voltage, over-current, under-current, over-temperature protection, to avoid machine damage
- Digital tube to display exposure time and fault code
- Stronger and lighter structure design, easy to operate in the field

SPECIFICATION

X-ray generator	cooling method	forced air cooling
	insulation method	SF ₆ gas insulation
	safe work pressure (20°)	0.35Mpa~0.45Mpa
Maximum penetration thickness conditions	steel plate, aluminum plate	A3 (297×420mm)
	focal length	600mm
	exposure time	5min
	film	general, double-sided lead foil sensitized screen
	darkroom processing	temperature: 20°C±2°C, developing time: 5min
	blackness	D≥1.5
	X-ray tube current (average)	5mA
High voltage transformer input voltage fluctuation		±1%
Working environment	temperature	-20~50°C
	relative humidity	≤85%
	altitude	≤1000m
Control console	timing error	5min±5%
	size (L×W×H)	228×140×45mm
Power supply		AC 220V±10V, 50Hz

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CIRCUMFERENTIAL PORTABLE X-RAY FLAW DETECTOR (CORRUGATED CERAMIC X-RAY TUBE)

Code	Input	Focus size	Radiation angle		Conical target	Flat target	Generator size	Generator weight
			Conical target	Flat target				
RXT-HC020A	2.0kW	1.0×5.0mm	30×360°	25°×360°	24mm	27mm	285×285×615mm	23kg
RXT-HC025A	2.5kW	1.0×5.0mm	30×360°	25°×360°	24mm	27mm	325×325×705mm	35kg
RXT-HC030A	3.0kW	1.0×5.5mm	30×360°	25°×360°	24mm	27mm	345×345×715mm	41kg

CIRCUMFERENTIAL PORTABLE X-RAY FLAW DETECTOR (GLASS SHELL X-RAY TUBE)

Code	Output voltage	Input	Focus size	Radiation angle		Maximum penetration Q235		Generator size	Generator weight
				Conical target	Flat target	Conical target	Flat target		
RXT-GS010A	60~100kV	1.2kW	1.0×3.5mm	30+5°	25+5°	4mm	6mm	190×190×530mm	11.1kg
RXT-GS016A	80~160kV	1.5kW	1.0×3.5mm	30+5°	25+5°	12mm	15mm	225×225×585mm	15kg
RXT-GS020A	100~200kV	2.0kW	1.0×3.5mm	30+5°	25+5°	24mm	27mm	285×285×665mm	21.5kg
RXT-GS025A	150~250kV	2.5kW	1.0×2.4mm	30+5°	25+5°	34mm	37mm	320×320×730mm	33.5kg
RXT-GS030A	170~300kV	3.0kW	1.0×2.3mm	30+5°	25+5°	44mm	47mm	345×345×830mm	40kg

DIRECTIONAL PORTABLE X-RAY FLAW DETECTOR (CORRUGATED CERAMIC X-RAY TUBE)

Code	Output voltage	Input	Focus size	Radiation angle	Maximum penetration Q235	Generator size	Generator weight
RXT-HC016B	80~160kV	1.5kW	0.8×0.8mm	40+5°	19mm	225×225×550mm	14.5kg
RXT-HC020B	100~200kV	2.0kW	2.0×2.0mm	40+5°	30mm	285×285×615mm	18kg
RXT-HC025B	150~250kV	2.5kW	2.0×2.0mm	40+5°	40mm	320×320×640mm	30.5kg
RXT-HC030B	170~300kV	3.0kW	2.5×2.5mm	40+5°	50mm	345×345×670mm	36.5kg
RXT-HC035B	180~350kV	3.5kW	2.5×2.5mm	40+5°	60mm	345×345×670mm	38kg

DIRECTIONAL PORTABLE X-RAY FLAW DETECTOR (GLASS SHELL X-RAY TUBE)

Code	Output voltage	Input	Focus size	Radiation angle	Maximum penetration Q235	Generator size	Generator weight
RXT-GS010B	60~100kV	1.2kW	0.8×0.8mm	40°	8mm	190×190×530mm	11.1kg
RXT-GS016B	80~160kV	1.5kW	0.8×0.8mm	40°	19mm	225×225×585mm	15.2kg
RXT-GS020B	100~200kV	2.0kW	1.5×1.5mm	40+5°	30mm	285×285×665mm	23kg
RXT-GS025B	150~250kV	2.5kW	2.0×2.0mm	40+5°	40mm	320×320×730mm	35kg
RXT-GS030B	170~300kV	3.0kW	2.3×2.3mm	40+5°	50mm	345×345×830mm	45.5kg

STANDARD DELIVERY

Main unit	1 pc
Control console	1 pc
Power cable	2 pcs
Grounding cable	1 pc
Warning light	1 pc
Center Indicator (Direction Finder)	1 pc
Lead type	1 pc
Image quality meter	1 pc
Dark bag	5 pcs
Intensifying screen	5 pcs
Fuse tube	10 pcs



control console (included)



warning light (included)



power cable (included)



INDUSTRIAL AUTOMATIC X-RAY FILM PROCESSOR CODE RXT-P820

- Microcomputer infrared control system, capable of automatic/manual replenishment of processing chemicals, automatic constant temperature
- Built-in red indicator light, magnetically adjustable dimming, check the film feeding status
- Double sink to ensure clear image
- Adjustable roller arrangement structure ensures no indentation
- Designed with timed start function to prevent crystallization
- Independent bridge design with tail fins to prevent chemical splashing
- Developing, fixing, washing, independent circulation system
- The drying and heating system is adjustable in high and low levels
- Professional cone-shaped air duct system ensures even film drying and prevents watermarks formation

SPECIFICATION

Film sizes	80×100mm to 430×∞mm
Process time	6~14min (adjustable in 1 minute intervals)
Processing capacity	18~42sheets/h (356×432mm), 88~260sheets/h (80×360mm)
Developer time	100~210s
Developer tank capacity	13L
Fixer tank capacity	13L
Water tank capacity	15L
Replenishment	50~500mL/m ²
Developer temperature	20~40°C (adjustable)
Fixer temperature	20~40°C (adjustable)
Drying temperature	20~70°C (adjustable)
Water temperature	5~30°C
Water consumption	2L/min
Power supply	200~240V, 50Hz/60Hz
Dimension (L×W×H)	1050×720×1230mm
Net weight	95kg

STANDARD DELIVERY

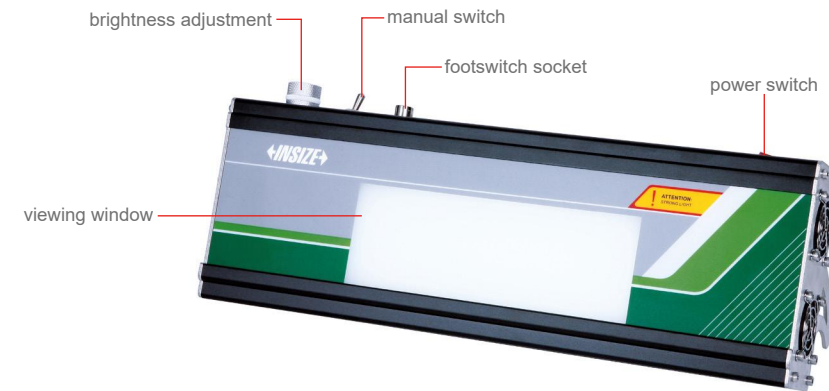
Main unit	1 pc
Water inlet pipe	1 pc
Drain pipe (with valve)	3 pcs
Replenishment pipe (with nozzle)	2 pcs
Overflow pipe	3 pcs
Liquid medicine barrel (25L)	2 pcs
Spare parts kit	1 pc

OPTIONAL ACCESSORY

Pre-filter	RXT-PC01
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pre-filter (optional)



INDUSTRIAL VIEWING LAMP CODE RXT-F290

- LED light source, high brightness, uniform light emission, long life use
- Stepless adjustable brightness, 2%-100% wide range dimming
- Aluminum alloy case, good heat dissipation, low heat generation without damaging the film
- Bearing fan, high RPM, low noise, fast heat discharge
- No need to warm up, suitable for frequent switching of the occasions for film evaluation

SPECIFICATION

Brightness	170000cd/m ² (500000Lux)
LED quantity	280pcs
Observable blackness	4.2D
Maximum area of viewing window	220×75mm
Power consumption	100W
Power supply	100~240V, 50/60Hz
Dimension	456×154×68mm
Net weight	3.5kg

STANDARD DELIVERY

Main unit	1 pc
Light barrier	1 pc
Fuse	2 pcs
Wired footswitch	1 pc

OPTIONAL ACCESSORY

Wireless footswitch	RXT-F290-WF
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wireless footswitch (optional)



BLACK AND WHITE DENSITOMETER
CODE RXT-BM301

- With accurate reading, good stability, easy to operate
- Small size, light weight, 27 LED lighting source, good shock resistance
- Comes with calibration software and standard black and white density film, allowing self calibration of instruments
- Suitable for industries such as non-destructive testing, photosensitive materials, printing, etc



SPECIFICATION

Blackness range	D=0.00~5.00
Reading stability	±0.02
Accuracy	±0.02 (0.0<D≤2.0) ±1% (2.0<D≤4.0) ±0.05 (4.0<D≤5.0)
Optical aperture	Ø2mm
Sampling time	0.8s
Display form	three-digit display
Interface	RS232 (optional accessory USB cable)
Operation environment	0°C~40°C, relative humidity ≤85%
Power supply	220V, 50/60Hz
Dimension	260×265×110mm
Net weight	2.1kg

STANDARD DELIVERY

Main unit	1 pc
Black and white density film (0.0~5.0)	1 pc
USB flash disk	1 pc
RS232 cable	1 pc

OPTIONAL ACCESSORY

USB cable	RXT-BM301-CA
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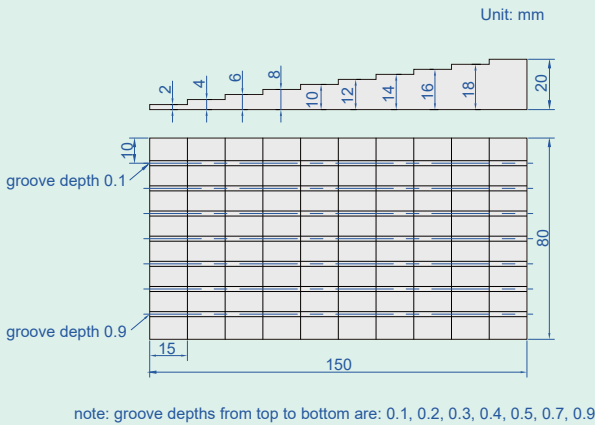


black and white density film(0.0~5.0)
(included)



RADIOGRAPHIC STEP TEST BLOCK
CODE RXT-C010

- Performance calibration of radiographic inspection equipment, determination of inspection process parameters, and verification of defect detection capability related to workpiece thickness



SPECIFICATION

Material	20#
Casing dimension (L×W×T)	150×80×20mm

STANDARD DELIVERY

Radiographic step block	1 pc
Spacer block (10mm)	1 pc
Spacer block (20mm)	1 pc

5. Penetrant Flaw Detector

This penetrant flaw detection method operates based on capillary penetration principles. A penetrant containing fluorescent or color contrast dye is applied to the surface of a test workpiece and penetrates into open surface defects including cracks and pores. After the removal of excess surface penetrant, a developer is applied to the workpiece. Through capillary action, the developer extracts the residual penetrant from internal defects and draws it to the workpiece surface, forming distinct fluorescent or color contrast indications that replicate the actual defect morphology. Defect conditions can be accurately determined via visual observation of the formed indications.

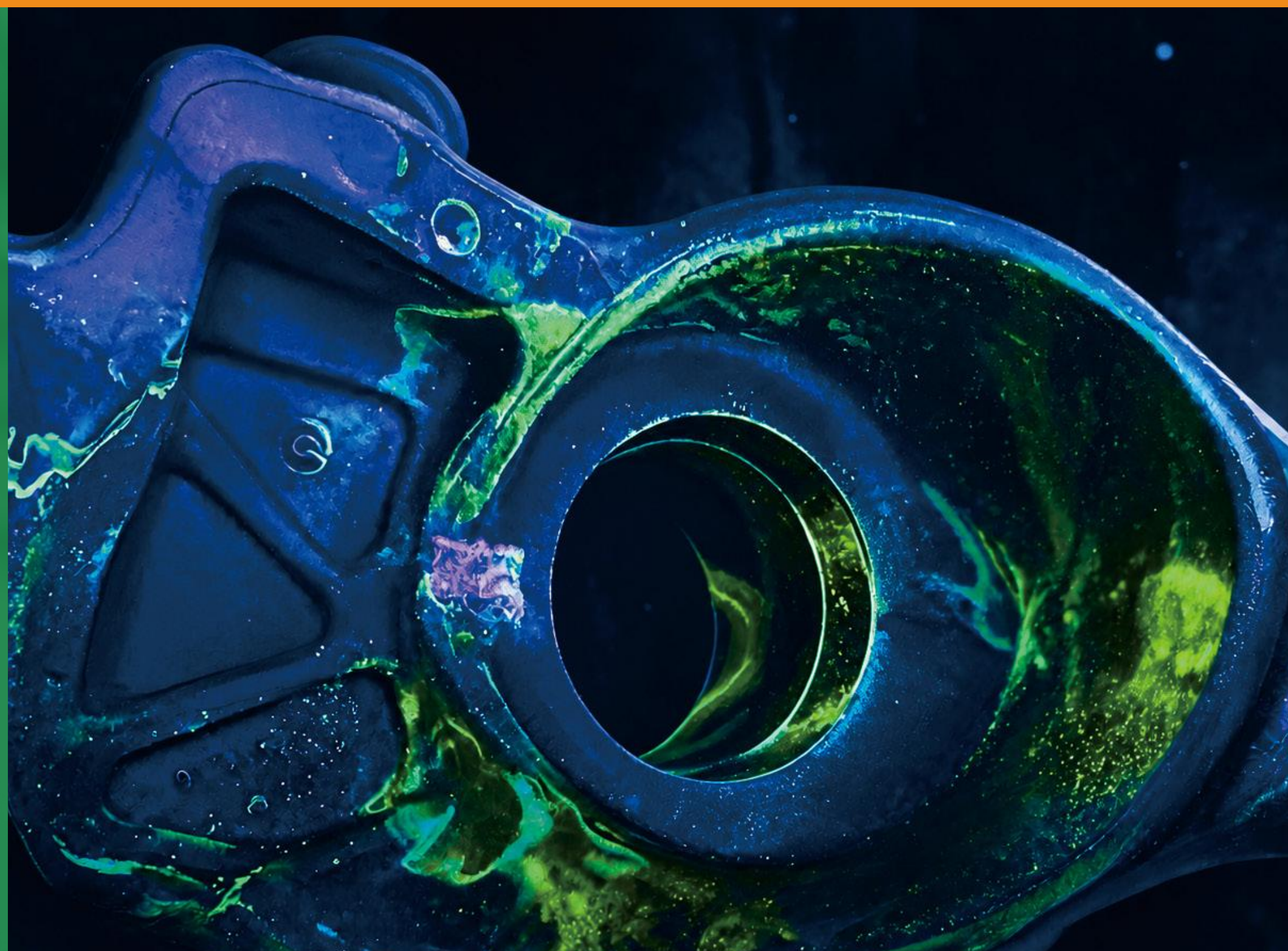
Applicable Materials:

It is applicable to all engineering materials with no limitations related to magnetism or electrical conductivity. The applicable range covers metals and non-metallic materials.

- ☒ metals such as steel, aluminum, copper and titanium alloys.
- ☒ non-metallic materials including ceramics, plastics, glass and composite materials.

Applicable Workpieces:

This equipment is suitable for inspecting castings, forgings, welded joints, stamped parts and precision machined components. Typical application cases cover automotive casting parts, welds of aerospace structural components, glass products and ceramic insulators.





IPT-ZP1300

FLUORESCENT PENETRANT FLUIDS

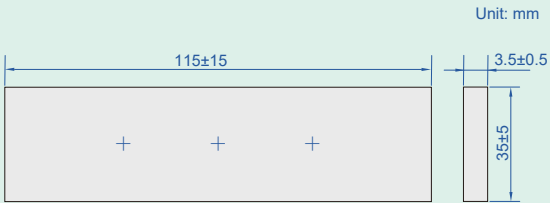
- Conformity to standards ASTM E1417
- High sensitivity, washable, high brightness, high contrast defect indication
- High water tolerance, high thermal stability, high UV stability
- High flash point, low toxicity, low volatility, low odor
- Low biological and environmental load

Code	Description	Sensitivity	Package/barrel
IPT-ZP1300	1. fast drying, no residue, not easy to cause over-cleaning	level 3	18L
IPT-ZP1200	2. suitable for aerospace parts, turbine blades, welded parts and ceramics, glass, plastic and other surface defects inspection 3. can be used in conjunction with imaging agents	level 2	18L



PENETRATION STANDARD TEST BLOCK
CODE ISU-PB3

- Comply with ASME standard requirements
- The test block shows the number and clarity of lines of radiating cracks to determine the sensitivity level
- Suitable for verifying the sensitivity and operational accuracy of penetrants, as well as for testing the corrosion of stainless steel materials by penetrants



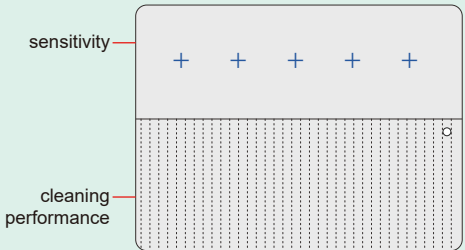
SPECIFICATION	
Type	JB/T6064 B3 type
Surface treatment	chrome plating
Material	stainless steel

STANDARD DELIVERY	
B3 test block	1 pc
B3 test block display image	1 pc



PENETRATION STANDARD TEST BLOCK
CODE ISU-PB5

- Meets NB/47013.5 and ASME standards
- This test block is a means of verifying the sensitivity and operational accuracy of the penetrant, and has a rough surface in the sandblasting area to verify the cleaning performance of the penetrant and the accuracy of the cleaning method. Its sensitivity is determined by the number of defects displayed and the diameter of each point in the radial domain. It is a functional standard test block



SPECIFICATION	
Type	JB/T6064 B5 type
Surface treatment	chrome plating
Material	stainless steel

STANDARD DELIVERY	
B5 test block	1 pc
B5 test block display image	1 pc



MEASUREMENT SOLUTION PROVIDER

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