

CREATE A RENOWNED
WORLD BRAND OF ULTRASOUND
打造世界一流的超声品牌

Comparison 仪器功能对照

比较功能 Comparison function	Instrument model 仪器型号	A20	A26	A30	A31	A36
尖脉冲	Spike wave	√		√	√	√
方波	Square wave		√			√
焊缝图示	Weld graph illustrative	√	√	√	√	√
连续存储	Series store	√	√	√		√
射频检波	RF	√	√	√		√
中英文可选	Chinese/English	√	√	√		√
峰值记忆	Peak holding	√	√	√	√	√
包络	Envelope	√	√	√	√	√
曲面修正	Surface amend	√	√	√	√	√
自动波幅	Auto gain	√	√	√	√	√
DAC	DAC	√	√	√	√	√
AVG	AVG			√		√
AWS	AWS					√
回波比较	Echo compare					√
降噪	Noise immersion	√	√			√
快捷菜单/快捷键	Hot key	√	√			√
飞梭功能键	Shuttle key	√	√			



Anyscan-30/31/36

数字超声探伤仪

Ultrasonic Flaw Detector

- 良好的屏蔽设计，抗干扰能力强
Excellent EMI design, good EMC performance
- 简洁的按键和菜单设置，操作方便
Intelligible setting of keys and menu, easy to operate
- 领先的技术指标，丰富实用的辅助功能
Leading technical target, abundant applied assistant function
- 宽频低噪声放大电路，可匹配低频和高频探头
Broad band amplifying circuit with low noise, selectable damping, excellent matching with low or high frequency probe
- 400MHz实时硬件采样率，回波脉冲更逼真可靠
400 MHz real-time hardware sampling, high-fidelity echo pulse

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Doppler Electronic Technologies Co., Ltd



Professional Manufacturer
Of Ultrasound Equipments, Ultrasound Probes
专业超声设备·超声探头制造商

DOPPLER

Anyscan-3X系列数字超声探伤仪包含A30、A31和A36三款型号，是多浦乐奉献给业界的又一系列精品。3X系列产品不但外观简洁实用，操作方便快捷，而且秉承了多浦乐产品性能卓越、业界领先的理念，综合性能、指标在同类产品中具有较大优势，而丰富实用的辅助功能也让用户使用起来得心应手，工作效率倍增。

Anyscan-3X series digital ultrasonic flaw detectors include three types: A30, A31 and A36, which are another competitive products presented by Doppler to the industry. These products feature not only concise appearance, practical functionality, handy operation, but also embody Doppler's concept of excellent performance and industrial leadership. Their comprehensive performance and indicators are superior to those of their similarities, and their rich and practical auxiliary functionality helps users with easy operation and better efficiency.

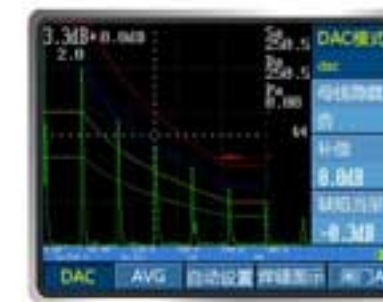
Performance 基本性能指标

项目内容	性能指标	ITEM	PARAMETER
水平线性误差:	≤ 0.1%	Linearity error of time-base:	≤ 0.1%
垂直线性误差:	≤ 3%	Linearity error of vertical:	≤ 3%
灵敏度余量:	≥ 62dB	Surplus sensitivity:	≥ 62dB
动态范围:	≥ 40dB	Dynamic range:	≥ 40dB
远场分辨率:	≥ 30dB	Far field resolution:	≥ 30dB
工作方式:	单探头或双探头	Operating method:	Single element, Double element
发射脉冲:	30型/31型: 400V负尖脉冲 36型: 400V方波/负尖脉冲	Transmitter pulse:	A30/A31: negative spike wave A36: square wave/negative spike wave
工作频率范围:	0.5~22MHz, 频率分段可选, 匹配探头更具针对性	Working frequency range:	0.5~22MHz, frequency optional, excellent matching with probes
重复频率:	40/250/1000Hz可选	Pulse repetition frequency:	40/250/1000Hz
采样频率:	硬件实时采样频率400MHz	Sampling frequency:	400MHz hardware real-time sampling
检测范围:	A30/A31: 0.5~9999mm (钢纵波), A36: 0.5~15000mm (钢纵波), 连续可调, 可以切换步进	Detection range:	A30/A31: 0.5~9999mm(steel LW), A36: 0.5~15000mm(steel LW) adjustable continuously, switchable steps
声速范围:	1000~15000m/s, 连续可调, 可以切换步进	Sound velocity range:	1000~15000m/s, adjustable continuously, switchable steps
扫描延时:	A30/A31: -10~2000mm, 连续可调。 A36: -10~5000mm, 连续可调。	Scan delay:	A30/A31: -10~2000mm A36: -10~5000mm
探头延时:	0.00~199.9 μs	Probe delay:	0.00~199.9 μs
阻尼:	50/100/200/500 Ω	Damping:	50/100/200/500 Ω
菜单语言:	简体中文/英文	Menu language:	English/Chinese
增益调节:	0~110 dB, 分0.0/0.1/0.5/1.0/2.0/6.0 dB六档步进调节	Gain adjust:	0~110dB, 0/0.1/0.5/1.0/2.0/6.0dB step adjustment
检波方式:	正向、负向、双向、射频	Rectification:	Positive, Negative, Full wave, RF
显示屏幕:	RF5.7" 高亮度TFT彩色液晶屏, 640 x 480像素	LCD display:	5.7" high brightness TFT LCD, 640 x 480 pixels
测量模式:	前沿或峰值	Measurement mode:	Flank or peak
参数存储:	可存储30组仪器常用探伤参数或470组检测结果数据	Parameter storage:	Store 30 groups common-use detection parameters and 470 groups test result data
报警:	硬件报警, 声、光两种方式, 可设置报警、失波、DAC报警模式	Alarm:	Hardware alarm, sound and light two methods, alarm models including positive mode, negative mode and DAC mode
通讯接口:	A/B型USB接口	Communication Interface:	A/B USB
工作温度:	-10~+50℃	Operating temperature range:	-10~+50℃
电池规格:	锂电池, 可持续供电6小时以上	Battery specification:	Lithium battery, continuance supply power for more than 6 hours
供电电源:	AC: 100~240V; DC: 15V~4A	Power supply:	AC: 100~240V ; DC: 15V~4A
整机重量:	约1.4Kg (含电池)	Complete appliance weight:	1.4KG (including battery)
防护级别:	IP54	Protection level:	IP54

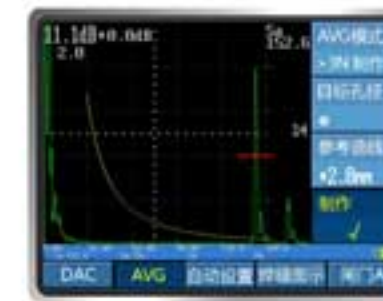
Characteristic Function 特点及功能



焊缝检测图形示意功能
Weld graph illustrative



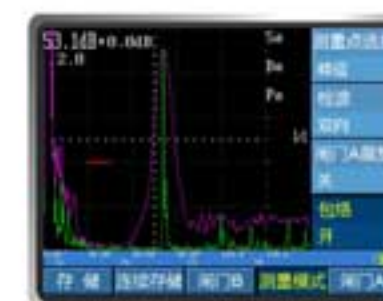
DAC曲线功能
DAC function



AVG曲线功能
AVG function



射频检波功能
RF display function



包络功能
Envelop function

- DAC曲线功能:** 最多可用10点法制作DAC曲线, 评定线、定量线、判废线自动生成。
DAC function: Use at most 10 points to make DAC curve, Auto-generated evaluation line, sizing line, rejection line.
- AVG曲线功能:** >3N区采样一点自动生成AVG曲线, 存储调用方便。
AVG function: Auto-generated AVG curve by sampling one point from >3N zone, easy to save and recall.
- 曲面修正功能:** 自动校正弧面探测结果。
Curve surface amend function: Auto-amend test result of arc surface workpiece.
- 峰值记忆功能:** 帮助记录最高回波。
Peak holding: Help record peak echo.
- 包络功能:** 记录回波波峰的变化轨迹。
Envelope function: Record the profile of the echo peak track.
- 自动波幅功能:** 回波高度自行选定后可实现快捷调节。
Auto gain function: Auto set the amplitude of selected echo to the desired value.
- 焊缝检测图形示意功能:** 直观的图形显示, 缺陷位置一目了然。
Illustrated function for the weld test: Direct display of weld graphics, easy and clear to see the flaw position.
- 智能化的设备校准程序:** 包括快速校准材料声速、探头延时、探头K值。
Intellectual procedure for instrument calibration: Include fast calibration of material velocity, probe delay, probe angle.
- 快捷通道设置和数据存储:** 可设置并存储30组探伤参数和470组数据结果, 存储、调用操作快捷简便。
Easy access to channel setting and data saving: Easy to save and recall 30 groups of detection parameters and 470 groups of data results.
- 波形显示区域缩放功能:** 波形显示区域可缩放, 利用屏幕更充分。
Zoom function: Zoom in/out the wave display zone, take full use of the screen.
- 闸门区域放大功能:** 把闸门区域放大到整个波形显示区进行显示, 方便观察波形细节。
Gate magnify function: Zoom in the gate zone to the whole wave display zone, easy to observe the wave details.
- 方波发射功能:** A36采用400V负方波发射, 前沿下降时间约5ns, 脉宽调节范围30~500ns。
Square wave emitting function (A36): 400V negative square wave emitting, frontier descending time is about 5ns, pulse width range is 30~500ns.
- AWS功能:** 符合美国焊接协会AWS D1.1焊缝缺陷指示评级标准。
AWS function: Meet the weld defects standard of AWS D1.1.
- 回波比较功能:** 方便现场对同一缺陷从不同方向检测的结果进行回波细节比较。
Echo compare function: Easy to make comparison of the echo details for the same defect through tests from different direction in the field.
- 降噪功能:** 在现场噪声干扰严重, 仪器屏幕出现幅度较高的尖峰脉冲影响缺陷判断时, 使用降噪功能可使干扰减弱或消失, 对回波显示的影响甚微。
Noise immersion function: When the site noise interference is serious, the defect judgement is affected by high amplitude spike echo, use this function to weaken it.
- 快捷功能菜单:** 在每页主菜单上都设有快捷功能菜单, 有“自动波幅”、“峰值记忆”、“全屏探伤”等, 使用非常方便。
Hot keys menu: Hot keys including "auto gain", "peak holding", "full screen detection", etc., shown in each page. Easy to use.