

The **X-32** is a multi-channel, high-performance, portable NDT flaw detector using phased array imaging. It's the result of the latest available technology and of the creativity and innovation of HARFANG Microtechniques inc. The X-32 offers high-speed acquisition rate and powerful software features to efficiently perform manual and encoded UT inspections, which is designed to meet the most demanding requirements of NDT.

X-32 instrument

best portable phased array instrument
from HARFANG Microtechniques Inc.

Advantages of the X-32

FASTER inspections:

- Simultaneous multi-angle and multi-depth inspection with one probe
- Reduced manual movement for a greater inspected volume
- Reduced inspection time
- Reduced personnel exposure to health-threatening radiations

EASIER inspections:

- Hand-held and lightweight instrument
- Intuitive, user-friendly interface
- Real-time imaging, including Top Projected View
- Fastest sectorial Scan rendering of the industry

MORE RELIABLE inspections:

- 32 active elements for high volume resolution to precisely size and map flaws.
- Up to 2000 focal laws for maximum coverage with maximum resolution.
- Full programmability for better and flexible inspection of complex geometry



Main Features:

- 32 active channels for transmission and reception
- Up to 128 channels in total with M-box option
- Integrated with 4 independent scans being displayed simultaneously
- 50 to 200V square pulsing
- Up to 2000 focal laws (beams)
- With 40 GB internal storage hard-disk, it can make a real-time continuous recording of the inspection
- A/B/C/D/S (sectorial) and L (linear) real-time and analysis views
- Reporting and analysis capabilities
- Multi-language display

Applications:

- Nuclear power generation
- Automotive components
- Welding
- Aerospace industry
- Petrochemical industry
- Heavy industry
- Windmill



X-32 PRODUCT SPECIFICATIONS

OPERATING MODES	Phased Array + Mono-channel
TRANSMISSION	
Number of Active Channels	32
Multiplexing of Elements	up to 128 with M-Box option
Voltage	50V to 200V (adjustable)
Probe Support	1 to 12 MHz
RECEPTION	
Filters	4 banks
Gain	0 to 80 dB
Sampling Frequency	100 or 50 MHz
Quantification	8 bits per channel
BEAMFORMER	
Architecture	100% Digital, Delay-and-Sum
Delay	2.5 ns resolution, 81 920 ns maximum
Maximum Number of Beams (<i>focal laws</i>)	2000
Number of Simultaneous Scans in Real-Time	up to 4
Available Views (imaging)	A/B/S/L-scan + Top in real-time A/B/D/S/L-scan + Top in analysis A/B/D/S/L/Top/Side/End using UTStudio
ACQUISITION	
Refresh Rate	20 images/sec with 1000 beams, up to 10 kHz PRF
Recording Bandwidth	3~5 MB/sec sustained (HDD or Ethernet)
Storage	40 GB on internal HDD, external USB media (stick, HDD)
Remote Control	Ethernet 10/100
GENERAL	
Connector Type	Hypertronics 160 pins ZIF
Display	Color TFT with 800 x 600 pixels (sunlight readable)
DAC Curves	Unlimited
Power	120V/220V @ 40~60 Hz, 75W
Battery	One(1) 6600 mAh Li-Ion (DR-201)
Weight	4.2 kg
Dimensions (W x H x D)	317mm x 315mm x 122mm
Certification	FCC Part 15, CE
Operation / Storage Temperature	0°C to 40°C / -20°C to 70°C

All specifications subject to change without notice. Please validate with HARFANG before ordering.

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ACCESSORIES



The X-32 kit comes in a rugged transport casing with accessories.



X-32 kit comes with a demo probe, but we can design and sell many kinds.



You can buy the **M-Box** for multiplexing over 128 elements.



The X-32 can be remotely controlled by **UTStudio-Pro**.

DISTRIBUTED BY:

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تهران، خیابان آفریقا بلوار گلشهر پلاک ۱۵ طبقه دهم
تلفن: ۲۲۰۵ ۳۸ ۴۲ فاکس: ۲۲۰۵ ۶۴ ۸۲