

## IHSCAN High-Performance Eddy Current Flaw Detector

Iranian Hybrid converges its latest advancement in both digital-circuitry and eddy current flaw detector into the new IHSCAN IH-ECL with its crisp and vivid 10 inch LED display. It, nondestructively, helps tube, bar and wire manufacturers for ensuring to meet their requirement of quality control of the product

Housing	
Overall dimensions (width × height × depth)	440 mm × 350 mm × 610 mm (17.3 in. × 13.7 in. × 24 in.)
Shielded Housing	Yes
Weight	35 kg
Power requirements	110/230 VAC 50 Hz to 60 Hz.
Input and Outputs	6 Analogue Inputs, 15-PINS Military Connector, 1 Encoder, 7 TTL I/Os, 1 LAN, DC Magnetizer, DC De-magnetizer.
Environmental Conditions	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Internal Cooling Unit	Fan Cooling
IP rating	Designed to meet requirements of IP63.
Display	
Display size (W × H, diagonal)	222mm × 125mm × 254mm (8.7in. × 4.9in. × 10.1 in.)
Display type	1366 × 768 pixels color, LED
Screen modes	Normal or Full screen
Grids and display tools	Yes
Connectivity and Memory	
PC software	IHSCAN PC software. IHSCAN PC allows viewing saved files, Printing reports, and viewing online eddy current data. Password protected supervisor level for adjusting basic testing parameters and locking them. Data Logger (opt.)
Interface	
Language	English
Applications	Application selection menu for easy and rapid configuration.
Real-Time Readings	2 real-time readings measuring signal characteristics

Eddy Current Specifications	
Probe types	Absolute and differential in either bridge or reflection configuration. The instrument is fully compatible with Iranian Hybrid probes.
Probe connectors	15-Pins Military connector and BNC featuring internal automatic balancing for BNC connector (absolute probes).
Frequency range	10 Hz to 2 MHz
Gain	0 dB to 90 dB 0.1 or 1 dB increments
Rotation	0° to 359.9° in 0.1° or 1° increments.
Sweep	Variable from 0.005 s to 10 s per division
Probe drive	HIGH (20 V) into 100 Ω.
Display erase	0.1 s to 60 s
Available alarm types	3 simultaneous alarms. Choices include POLAR (circle), SECTOR (pie), SWEEP (time-based)
A/D Resolution	16 bit
Number of channels	Two Channels: One Absolute & One Differential
Applications	
Field of Application	Manufacture of tubing, pipe, bar, wire, strip, cable sheathing, extruded sections (roll-forming, tube mills, drawing machines) Quality assurance Both ferrous and nonferrous materials
Product lines and speeds	Continuous production with cut-off (welding line) Continuous production with cut-off (drawing line) Offline testing of cut lengths Cold forming applications using stop-go testing
Signal resolution	300 m/min
End Signal Suppression	Control of end signals when reaching cut off

## IH-ECL Applications

- Full-body testing with Encircling coils
- Weld seam testing with longitudinal magnetizing unit and segment coil
- Wire inspection
- Tube inspection
- Bar inspection
- Inline inspection of spring wire

## Key Features

- Easy to install and operate
- Automatic marking of defects
- Automatic sorting of inspected products in 2 or 3 categories
- Reporting
- Storage of parameters and test results
- Full integration in network for controlling testing from central host computer
- Bright, 10 inch LED display
- Touch Screen display
- On-board file preview

## Available Accessories

- Encoders
- Encircling coils and probes
- Segment Coils and Probes
- Magnetization units
- Demagnetization units
- Marking system
- Audible alarm



**Iranian Hybrid**

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