

Universal I-Flex™ Manual Pipe Scanner

Low-Profile Scanner for Encoded Axial Scans of Tubes and Pipes



The universal I-Flex manual pipe scanner is versatile and was developed to make it easier for operators to deploy the Eddyfi I-Flex probes on tubes and pipes. It is the only scanner on the market that can accommodate the entire I-Flex probe line for the surface inspection of tubes and pipes with outer diameters ranging between 42–170 mm (1.25–6.00 in NPS). Thanks to its low-profile and lightweight design, the scanners allows users replacing multiple uncomfortable manual scans with one rapid axial scan, while maintaining a constant clock position.

Benefits and Features

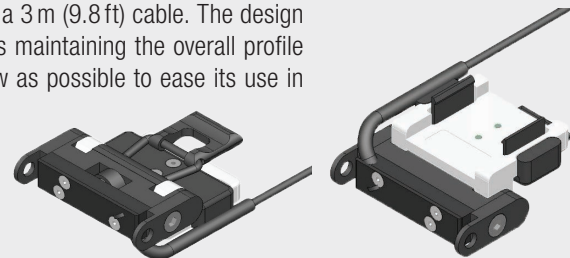
- Easy and rapid deployment of every I-Flex probe
- Universal scanner for a range of outer diameters: 42–170 mm (1.25–6 in NPS)—no tools necessary
- Low profile, light, and durable
- High-precision encoder for accurate axial positioning
- Compatible with Reddy® and Ectane®

Best Toolless Scanner

Thanks to the modular, click-on chain links, the manual pipe scanner can be clamped onto pipes and tubes without using any tools, making it the best clamping device for on-site inspections. The scanner's flexibility also enables users to perform all the necessary calibration procedures while the probe is mounted in it before deployment on tubes or pipes. This further contributes to improve ECA scan speed.

Dedicated Encoder Module

The universal I-Flex manual pipe scanner comes equipped with a high-precision, high-resolution with a 12-pin or an 18-pin connector compatible with the [Reddy](#) and [Ectane](#) families of test instruments and a 3 m (9.8 ft) cable. The design of the encoder allows maintaining the overall profile of the scanner as low as possible to ease its use in confined and tight spaces.

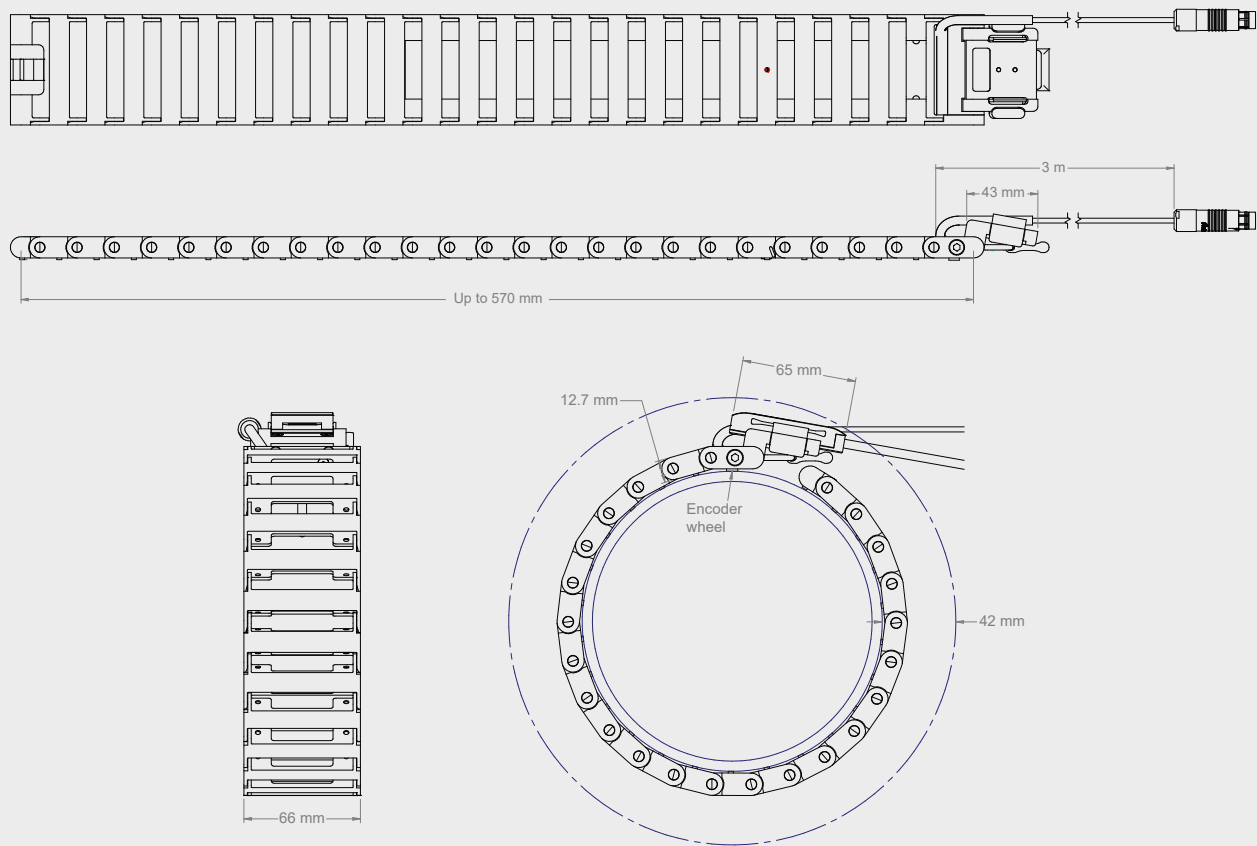


Specifications

| | ECA-IFG-034-500-048-N03S | ECA-IFG-056-250-048-N03S | ECA-IFG-079-250-048-N03S | ECA-IFG-056-050-048-N03S | ECA-IFG-079-050-048-N03S |
|--|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Casing | Small | Medium | Large | Medium | Large |
| Coverage | 34 mm (1.34 in) | 56 mm (2.21 in) | 79 mm (3.11 in) | 56 mm (2.21 in) | 79 mm (3.11 in) |
| Central frequency | 500 kHz | 250 kHz | 250 kHz | 50 kHz | 50 kHz |
| Frequency range | 100–800 kHz | 50–525 kHz | 50–525 kHz | 10–150 kHz | 10–150 kHz |
| Coils (diameters × numbers) | 2 mm × 48 | 3.5 mm × 48 | 5 mm × 48 | 3.5 mm × 48 | 5 mm × 48 |
| Penetration (stainless steel and aluminum) | Surface-breaking defects only | Up to 2 mm (0.079 in) | Up to 3 mm (0.118 in) | Up to 3 mm (0.118 in) | Up to 4 mm (0.157 in) |
| Minimum detectable crack length | 0.5 mm (0.020 in) | 1 mm (0.039 in) | 1.5 mm (0.059 in) | Far-side defects | Far-side defects |

Encoder

The universal I-Flex manual pipe scanner resolution is 51.33 samples/mm (1303.78 samples/in).



The information in this document is accurate as of its publication. Actual products may differ from those presented herein.

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