

# TELETEST FOCUS<sup>+</sup>

Guiding the Wave of Innovation





# FROM PIPE SCREENING TO PIPE INSPECTION

FOCUS+ is the first commercial product offering all the benefits of the conventional guided wave screening technology with the added feature of focusing sound energy into specific regions of pipes to measure the distribution of corrosion around the circumference at a specific distance. This proves especially valuable where pipes are inaccessible, enabling inspectors to make more informed decisions about the need for further action.

## FOCUS+ unit

The FOCUS+ unit incorporates all the feedback from operators. The computer-controlled unit is battery operated and equipped with an integrated pump for collar inflation. The device also contains GPS location and is simple to connect. Permanently wired in octants, the unit has the capability of focusing without the need for reconfiguration.

## Software

The FOCUS+ software is designed with the operator in mind. The user-friendly tools guide operators through setup and automatically perform most functions without the need for user input. In addition, focusing on localized areas is just one click away.

## Features and benefits

- Internal electric pump for inflation of collars
- GPS
- Wireless capabilities
- Octant inspection for C-scan imaging
- Secondary focusing technique unique to FOCUS+
- Longitudinal and torsional wave modes

## Collars

The collars combine the latest carbon-Kevlar® composite material and a latch design for a one-piece tool with a light and easy-to-use an integral bladder. Using the latest CAD software allowed to improve coupling between the guided wave transducers and the pipe surface, maximizing the signal amplitude. The collars incorporate Multi-Mode™ and 5-ring torsional modules generating torsional and longitudinal wave modes, offering operators the versatility to make more informed judgements.

Light Mini-Test collars and modules can inspect pipe sizes 48.3–114.3 mm (1.5–4.0 in). High-tech carbon fiber composite collars can, on the other hand, inspect pipe sizes 168.3–610.0 mm (6–24 in) in diameter and are designed to daisy chain to inspect pipe sizes up to 2 m (78 in) in diameter (two and three-collar configurations).

## Wireless capabilities

The Wi-Fi-enabled FOCUS+ units have a range of up to 50 m (164 ft), offering significant benefits to operators.

The basic system consists of:

- A low-frequency flaw detector, the Teletest Focus unit
- Transducer ring or tool that wraps around the pipe
- A laptop computer that contains the software for controlling the system
- Cable connector between Teletest Focus+ unit and tool
- Umbilical between Teletest Focus+ unit and laptop



# SPECIFICATIONS

## GENERAL

FOCUS+ weight	8 kg (17.6 lb)
FOCUS+ dimensions	33×33×14 cm (13×13×5.5 in)
Standard output voltage	300 V, peak-to-peak
Number of transducer channels	80
Maximum number of averages	1000000
Maximum sample range	1000 ms
Receiving gain range	1–120 dB in 1 dB steps
Battery autonomy	10 hours, typical
Display	OLED
Communication protocols	Wi-Fi or Ethernet
Supported operating systems	Windows® 7, Windows 10
Automated self-check	Standard
Integrated air pump	Standard



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