



Value Life



MID & LONG TERM VASCULAR ACCESS

pilot**TLS**<sup>™</sup>

Catheter Tip Location System

# Introducing the pilotTLS™ ECG Catheter Tip Location System

Providing accurate, real-time central venous catheter (CVC) tip placement

pilotTLS ECG technology provides immediate feedback on CVC tip placement, enhancing both patient and clinician satisfaction by minimising exposure to X-ray radiation and enabling consistent CVC placement in both the acute and non-acute settings.

**Versatile:** Can be used with any brand of PICC, short and long term CVC and implantable port

**Portable:** A small, lightweight device that can be used in acute and non-acute settings

**Simple:** Provides clear indicators of P wave changes. The focus is on accurate P wave interpretation in order to facilitate navigation of the line during the insertion procedure and rapid tip location confirmation.

## The importance of interpretation of the P wave

Studies consistently show that interpretation of P wave changes is the most accurate and reliable way of determining both CVC tip location and accurate navigation of the line during the insertion procedure.\* pilotTLS incorporates several real-time features designed to improve P wave interpretation thus assisting clinicians to achieve accurate navigation and tip location. These features are further enhanced by a clear and accurate ECG waveform at all stages of the insertion procedure, allowing the clinician to be confident in using the system to interpret changes in the P wave.



vygocard™

vygocard™ is a sterile connector which when primed with saline is used to transmit the intracavitary trace to the pilotTLS system.

\*See back page for references.

## User friendly interface



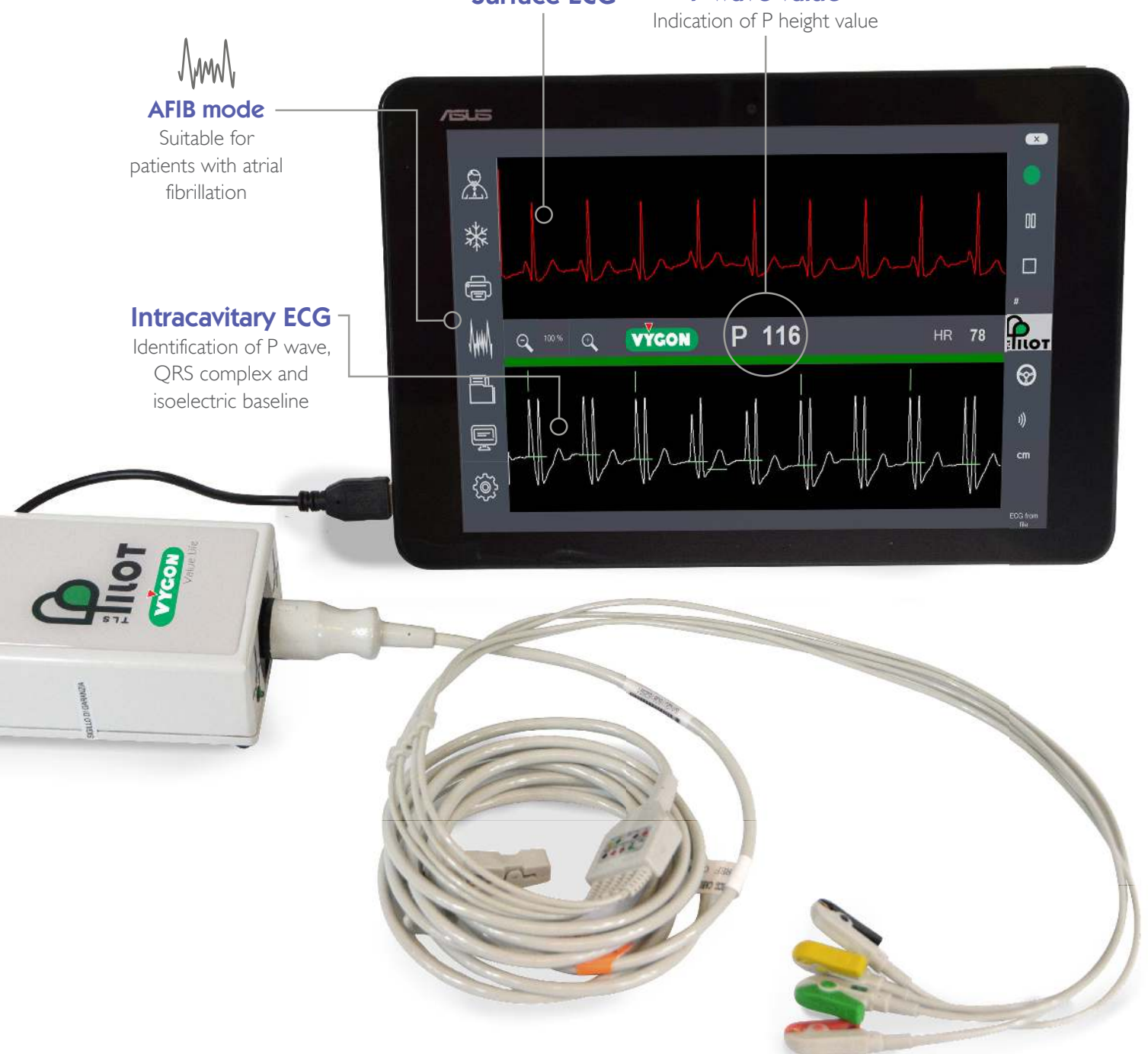
**AFIB mode**  
Suitable for  
patients with atrial  
fibrillation

**Intracavitary ECG**  
Identification of P wave,  
QRS complex and  
isoelectric baseline

**Surface ECG**

**P wave value**

Indication of P height value



# Implement pilotTLS™ today

## pilotTLS, ECG system

Complete ECG system for CVC tip positioning.  
Supplied in a protective case.

Code	Description
VSKTLS001	pilot interface and ECG cable
VSKTAB10	pilot software and PC tablet



## vygocard™

vygocard™ is a sterile connector which when primed with saline is used to transmit the intracavitary trace to the pilotTLS system.

Code	NHSC	Description
009164002	FSQ1877	Sterile connector for saline technique. Luer lock connection



## References

- Moureau NL, (2010) Electrocardiogram-guided peripherally inserted central catheter placement and tip position Journal of the Association for Vascular Access 15:1 8-14
- Pittiruti et al, (2008) The EKG method for positioning the tip of PICCs: results from two preliminary studies Journal of the Association for Vascular Access 13: 4 112-119
- Pittiruti et al, (2012) The intracavitary ECG method for positioning the tip of central venous catheters Journal of the Association for Vascular Access 13: 3 357-365
- Oliver G, Jones M, (2013) Evaluation of an electrocardiograph based PICC tip verification system. British Journal Of Nursing (IV Therapy Supplement) 22:14 S24-S28
- Oliver G, Jones M, (2014) ECG or X-ray s the 'gold-standard' for establishing PICC tip location? British Journal Of Nursing (IV Therapy Supplement) 23:19 S10-S16

**For further information, please contact: [vygon@vygon.co.uk](mailto:vygon@vygon.co.uk)**

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