



THE DOWNHOLE VISUAL
ANALYTICS COMPANY

OPTIS[®] INFINITY R125

Optis[®] Infinity is the world's first array sideview camera for downhole applications. Optis Infinity provides a ground-breaking, 360°, top-to-toe perspective of well performance and integrity in stunning high definition.

Full understanding of complex well issues requires a complete picture of the wellbore. Optis Infinity features an array of four azimuthally aligned cameras providing EV's trademark high resolution, high frame-rate video with >100% circumferential coverage and without any moving parts. This ground-breaking innovation enables well operators to gain a complete 360° perspective of well conditions and behaviour in real-time. This quantum shift in information delivers an unparalleled level of understanding to support decision-making and enable effective well management.

The Optis[®] Infinity R125 integrates our industry leading telemetry and video compression systems, providing the ability to send high quality real-time video at over 375kbps on standard mono-conductor or multi-conductor cables. As a further enhancement, options are available to operate in conjunction with high power applications, allowing Optis R125 to provide real-time video whilst tractoring (VWT) or during electro-mechanical operations such as tubing cuts or stroker applications. The same system may also be deployed on E-Coil, providing the ability to circulate fluids and/or perform pumping services with the benefit of real-time visual feedback.

As an evolution of the Optis platform, Optis[®] Infinity R125 benefits from the same industry-leading optics and highly versatile multi-sensor toolbus, providing an optimal information platform for EV's game-changing Visual Analytics services across well delivery, well integrity and production optimisation disciplines. In addition, Optis Infinity technologies may be combined with an Optis downview video sensor, and with the shortest offset between downward and circumferential fields of view, viewers benefit from the most complete perspective of downhole conditions available.

Features:

- Four azimuthally aligned cameras providing high definition, high frame-rate video
- 360° view providing a complete perspective of downhole conditions
- Video whilst Tractor (VWT) capability for conveyance in horizontal wells and integration with high power electro-mechanical services
- Operates on E-Coil to enable circulating and pumping capability
- Combinable with a range of well integrity and production logging sensors
- Fully Visual Analytics™ ready to provide quantified images and statistical analysis

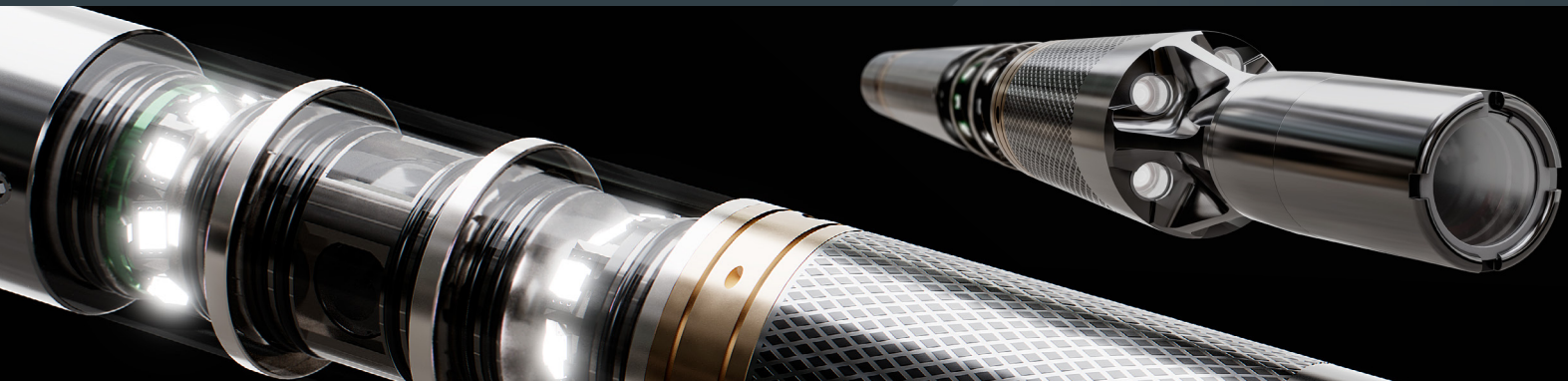
Benefits:

- Live, high resolution visual information to support real-time decision making
- Integration with mechanical services to provide instant confirmation of remedial actions
- Highly efficient data gathering reducing operating time and costs
- Reduced assumptions and increasing the accuracy of information through the combined analysis of video with conventional data sources
- Precise, quantified visual answers enabling rapid, confident decision making

Applications:

- Perforation analysis to assist in optimization of hydraulic fracturing processes
- Imaging and dimensioning of wellbore fish to assist in safe, effective recovery
- Identifying cause of unexpected hold-up depths and quantifying their severity
- Location of sand or other wellbore deposits and real-time feedback of successful clean-up
- Leak detection, root cause analysis and assessment of remedial action
- Detailed inspection of valves, sliding sleeves and other complex completion hardware

OPTIS[®] ∞ R125



SPECIFICATIONS

Diameter ¹	1.69 in	43.0 mm
Length	150.27 in	3,816.8 mm
Pressure Rating	15,000 psi	1,034 bar
Temperature Rating	257 °F	125 °C
Camera Types	4x Colour Sideview and 1x Colour Downview	
Frame Rate	Up to 25 fps	
Video Resolution	2880x∞ Sideview; 720x576 Downview	
Field of View	360° circumferential coverage	
Orientation Sensor	High-side relative bearing and deviation from vertical	
Image Capture	Downview / Single Select Sideview	
Recording Capacity	Continuous real-time transmission to surface with any mono-conductor or multi-conductor cable	
Power	Surface power	
H2S / CO2	Compatible with corrosion resistant materials throughout	
Min ID for 360° Coverage	3.00 in	76.2 mm
Max ID Operating Range	12.00 in	304.8 mm

¹Maximum rigid diameter of 2.20in / 56.1mm with reference blades fitted for dimensioning applications (e.g. PerforationVA)

Example tool string

