



THE DOWNHOLE VISUAL  
ANALYTICS COMPANY

# OPTIS<sup>®</sup> IVC40 INTEGRATED VIDEO CALIPER

The Integrated Video Caliper tool combines the industry leading Optis<sup>®</sup> camera technology with an industry standard Multi-Finger Caliper to provide a unique and complete answer to well integrity challenges.

Traditionally, Multi-Finger Caliper tools are used to provide direct and quantitative measurements of internal tubing and casing diameters to evaluate a number of pipe defects ranging from corrosion and erosion to bending and buckling. Combining video with multi-finger caliper data leads to an enhanced interpretation and provides invaluable 360° pipe coverage to complement the limited radial coverage available from a stand-alone mechanical caliper.

The IVC can be run in conjunction with pressure, temperature, gamma ray and casing collar locator tools, on single conductor, co-axial or multi-conductor electric line cables as well as in memory mode. Deployment on electric line means that multi-finger caliper measurements and high definition downview and sideview images can be acquired real-time, at surface, for improved service quality and operational efficiency.

The IVC combination of qualitative and quantitative information delivers a more complete answer product to the customer, increases efficiency and ensures confirmation of the well diagnosis in minimal time.

## Features:

- Identical, uncompromised, high quality downview and sideview video, and images from the Optis<sup>®</sup> camera system
- IVC24 and IVC40 finger caliper versions available
- Combinable with pressure, temperature, gamma ray and casing collar locator sensors which can be recorded simultaneously with Optis<sup>®</sup> camera or multi-finger caliper data
- Available in surface read-out or memory mode†
- MIPSPRO compatible for analysis and reporting

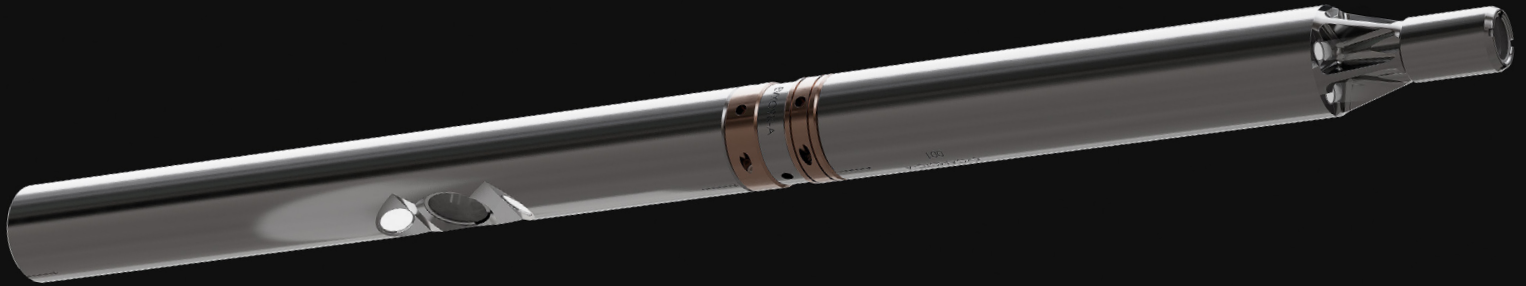
## Benefits:

- Increased operational efficiency by combining two or more services in a single run
- Increased interpretation efficiency and decision making by combining qualitative and quantitative information in a comprehensive answer product
- Increased likelihood of successfully diagnosing well integrity issues than with a stand-alone Multi-Finger Caliper

## Applications:

- Tubing and/or casing evaluation: corrosion, erosion, wear, pits, holes and other defects
- Completion component inspection: safety valve, inflow control device, gas lift mandrel, etc.
- Pre or post-inspection of mechanical workover: milling, cleaning, acidizing, shifting, etc.

† See Optis<sup>®</sup> M125 Product sheet for memory camera specifications



SPECIFICATIONS

	IVC40		IVC40 XF**	
Diameter	2.9 in	73.0 mm	2.9 in	73.0 mm
Length	255.60 in	6,492 mm	255.60 in	6,492 mm
Pressure rating	14,503 psi	1000 bar	14,503 psi	1000 bar
Temperature rating	257 °F (continuous) 302 °F (<6 hours)	125 °C (continuous) 150 °C (<6 hours)	257 °F (continuous) 302 °F (<6 hours)	125 °C (continuous) 150 °C (<6 hours)
Camera Type	Real-Time: Full Colour Downview & Sideview / Memory: Full Colour Downview			
Video Frame Rate	Real-Time: Up to 25 fps / Memory: 30 fps			
Tubular ID range	3.5 in - 8.26 in	89.0 mm - 210.0 mm	3.5 in - 9.62 in	89.0 mm - 244.5 mm
Radial accuracy	+/- 0.02 in	+/- 0.5 mm	+/- 0.035 in	+/- 0.89 mm
Radial resolution	+/- 0.004 in	+/- 0.1 mm	+/- 0.005 in	+/- 0.13 mm
Inclination Measurement Accuracy	± 5.0°			
Relative Azimuth Measurement Accuracy	± 5.0° (Dev ≥ 5.0°)			
Vertical resolution logging @ 32ft/min (600m/h)	0.12 in	3.0 mm	0.12 in	3.0 mm

† See Optis® M125 Product sheet for memory camera specifications

\*\* XF = Extended Fingers

\*Example tool string

