

SPECTRUM® 360

MULTI-SIDE VIEW FLOW-THROUGH CAMERA

OVERVIEW

SPECTRUM® 360 is the industry's first flow through multi-side view camera, providing downhole visualization of well intervention services, allowing for an unprecedented level of diagnostic capability and validation of operational objectives.

The SPECTRUM® 360 camera has been designed to integrate with the existing SPECTRUM® tool using an optimized plug & play connection, while retaining SPECTRUM's revolutionary ability to attach additional mechanical or electrical tools below the combined assembly.



Detail view of SPECTRUM® 360 camera.

APPLICATIONS

- » Direct visualization of the downhole environment during operations
- » Perforations inspection with dimensioning capabilities
- » Leak / Damage diagnostics
- » Verification of intervention effectiveness such as fill removal, sleeve shifting, multilateral entry, etc

BENEFITS

- » Retains SPECTRUM® open architecture plug & play capability
- » Enables diagnostics, intervention and verification in a single trip
- » Can be run in conjunction with other tools

FEATURES

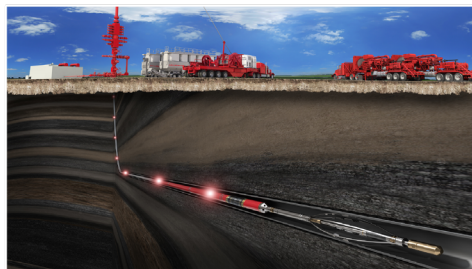
- » 360 degree lens coverage
- » Integrated and adjustable LED lighting
- » Flow-through design
- » Plug & Play connectivity
- » Telemetry and Power Pass-through
- » Real-time high resolution color video

SPECTRUM® 360 Specifications

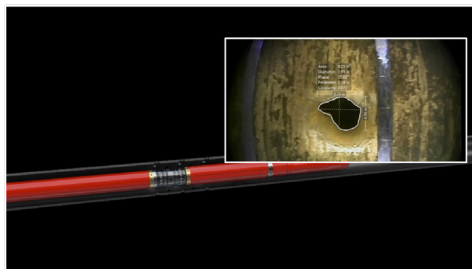
Available sizes	2-1/4 in	3-3/8 in
Maximum pump rates (clean fluid)	4 bpm	8.3 bpm
Tensile strength	45,000 lbf	60,000 lbf
Torque	800 ft-lb	2,800 ft-lb
Rating (pressure / temperature / shock)	Up to 15,000 psi / 250°F / 4 G	
Makeup Length	4.6 ft	4.5 ft
Telemetry mode	Real-time	



SPECTRUM® 360 camera enables diagnostics, intervention and verification in a single trip.



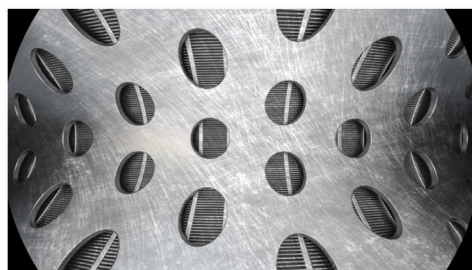
Single Trip Augmented Diagnostic



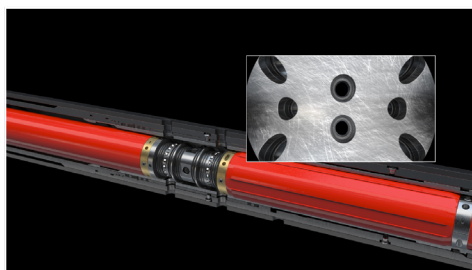
Perf Inspection and Dimensioning



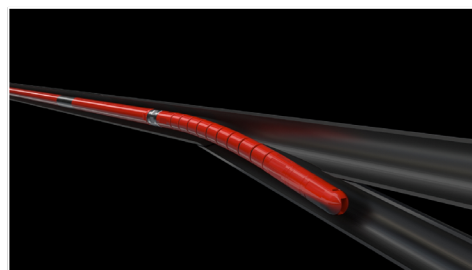
Leak Characterization



Cleaning / Scale Removal



Sleeve Shifting



Lateral Entry

Features of the SPECTRUM® 360 camera enable seamless integration into the tool string for augmented diagnostics and intervention.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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