

Optical Borehole Imager (OBI™)

QL40 OBI™ / OBI™40 GR



Technical specifications

Diameter	40 mm (1.6")
Length (min/max)	1.49*/1.93 m** (58.7/76.0")
Weight (min/max)	5.3*/7.4 kgs** (11.7/16.6 lbs)
Max temp	70°C (158°F)
Max pressure	200 bar (2900 PSI)
Optical sensor	1/3" high sensitivity CMOS digital image sensor
Color resolution	24 bits RGB true colors
Responsivity	5.48V/lux-sec
Light source	High efficiency LEDs
Azimuthal resolutions	120, 180, 360, 600, 900, 1800 points
Vertical resolution	User defined. Function of depth encoder vertical resolution
Deviation sensor	APS544-3 axis magnetometer - 3 axis accelerometer
Natural gamma sensor	Integrated (OBI40 GR) or in line sub (QL40 GR - QL40 GR CCL) 0.875" x 3" NaI (Ti) scintillation crystal

Operating conditions

Cable type	Mono, multi-conductor, coax
Compatibility SCOUT/OPAL	Scout / Opal (ALTlogger / Bbox / Matrix)
Digital data transmission	
Telemetry	Variable baudrate telemetry according to cable length/type & surface system
Logging speed	Function of image resolution and wireline electrical properties e.g: 6 m/min with 900 pixels azimuthal resolution, 2 mm vertical sampling rate @ 100 Kbps
Centralisation	Required
Borehole fluid	Dry, clear water filled
Measurement range	Up to 21"

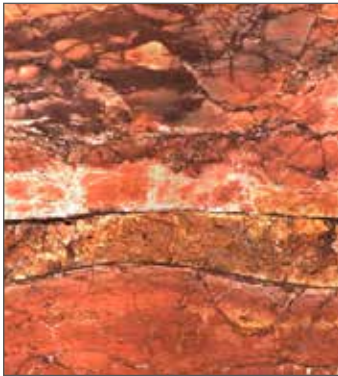
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Open hole

- Detailed and oriented structural information
- Reference for core orientation
- Fracture detection and evaluation
- Breakout analysis
- Lithology and mineralogy characterization (detection of thin beds, determination of bedding dip)
- Rock strength



Cased hole

- Casing inspection (lateral view only)

