

QL40-OBI-2G Data Sheet

The **QL40-OBI** tool is a bottom sub of the Quick Link (QL) product line, available for use either as part of a tool string with other QL40 tools or as a stand-alone tool. The OBI40 is the non-stackable standalone version of this tool.



Schematic drawing of QL40-OBI. Image courtesy of Mount Sopris Instruments.

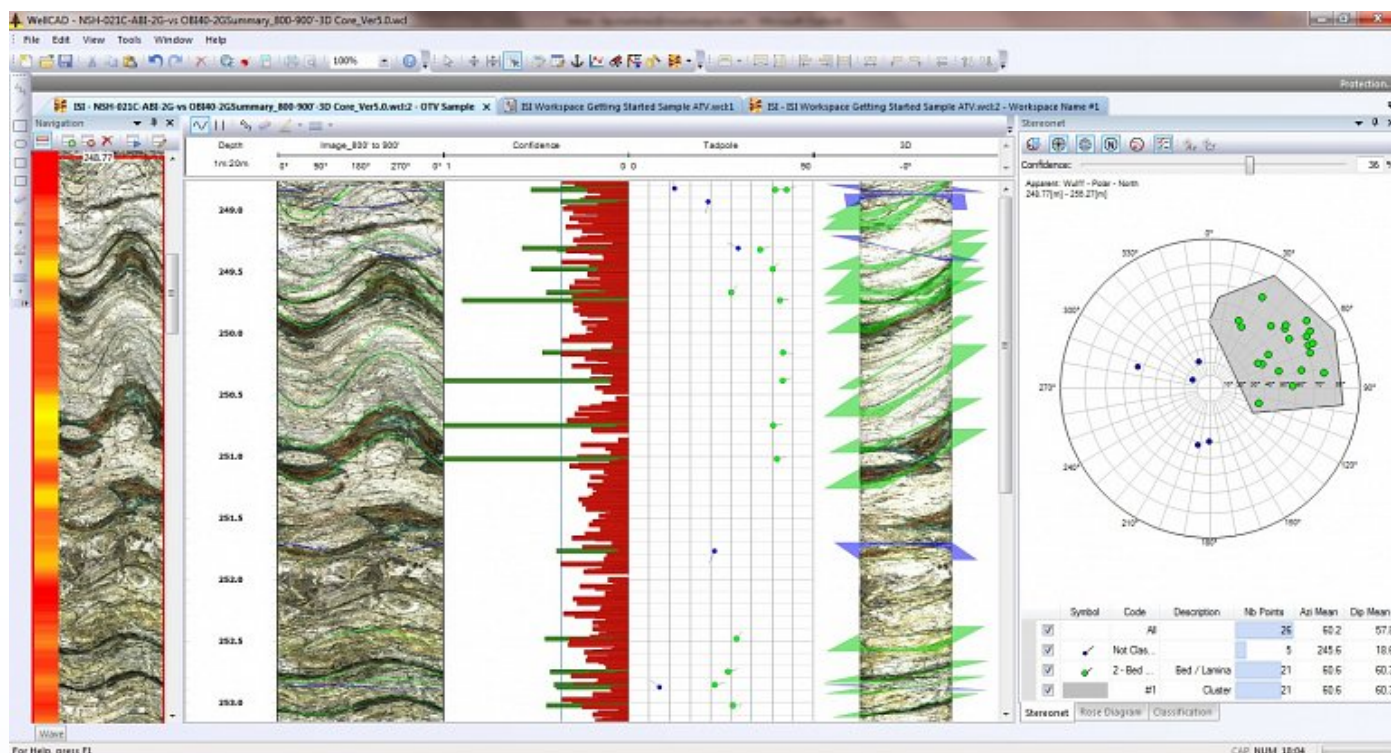
The **QL40-OBI** tool is designed to complement the ALT Acoustic Televiewers (ABI) in dry wells or clear water environments. It operates with the ALTLogger and MATRIX logging systems and can be run on any standard wireline (mono, 4 or 7 conductor, coax). The tool includes a high-precision deviation sensor (APS544) for accurate image and borehole orientation.

The OBI tool features a high-resolution CCD digital camera with Pentax optics, ideal for fracture detection, thin bed identification, bedding dip analysis, lithological characterization, and determining true rock fabric color. The precise orientation package, which includes a 3-axis magnetometer and 3-axis accelerometer, allows for the correct orientation of images, bedding planes, and fractures to the proper azimuth.

Applications

- Detailed and oriented structural data
- Reference for core orientation
- Fracture detection and evaluation
- Breakout analysis
- Detection of thin beds
- Determination of bedding dip
- Lithology and mineralogical characterization
- Casing inspection

WellCAD Image & Structure Interpretation (ISI) Workspace



The Image & Structure Interpretation (ISI) module for WellCAD provides a comprehensive tool kit for analysing image logs. Image courtesy of Mount Sopris Instruments.

Operating Conditions

W - Water ?

M - Mud

D - Dry ?

S - Steel ?

P - PVC Borehole ?

UC - Uncased ?

*Centralization required and any water in the borehole must be clear

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
(instrument only)	147cm x 4.2cm x 4.2cm	5.3kg

Technical Specifications

Optical Sensor:	1/3" high sensitivity CMOS digital image sensor.
Azimuthal Resolution:	120, 180, 360, 600, 900, 1800 pixels.
Vertical Resolution:	User definable minimum 1 mm. Function of depth encoder resolution.
Color Resolution:	24 bits RGB true colors.
Responsivity:	5.48 V/lux-sec
Light Source:	High efficiency LEDs.
Color Temperature:	5600 K.
Light Intensity:	750 lm.
Color Rendering Index:	80%
Power Max:	5.60 W.
Orientation Sensor:	APS 544 – 3-Axis Magnetometer and Accelerometer.
Inclination Accuracy:	± 0.5 °
Azimuth Accuracy:	± 1.2 °.
Max. Temperature:	70°C
Max. Pressure:	200 bar.