

OPTV38 & OPTV52

Borehole imaging - Optical televiewer



A precision wide angle lens and a CMOS camera assembly permit the **OPTV38** and **OPTV52** probes to capture a high- definition video image of the borehole wall in a variety of horizontal and vertical resolutions. The resulting image data is digitised in the probe and combined with orientation sensor parameters for transmission to the surface.

The orientated image log provides a wealth of information relevant to a wide variety of applications. These include fracture detection and analysis, bedding or foliation dip and direction, lithological characterisation and core sample orientation.

As an option, the probes can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes. A high-pressure kit for the **OPTV52** (200 bar / $\varnothing 62$ mm) is also available.

Specifications

	OPTV38	OPTV52
✓ Diameter:	38 mm/1.5"	52 mm/2"
✓ Length:	1620 mm/64"	1630 mm/64.2"
✓ Weight:	6 kg/13 lbs	7 kg/15.4 lbs
✓ Max operating T°C:	60°C/140°F	60°C/140°F
✓ Max. operating pressure:	100 bar/1450 psi	100 bar/1450 psi
✓ Recommended max. cable length:	4-Go 3/16" cable, 2000 m (6500 ft) Monocable 1/10", 1000 m (3281 ft)	
✓ Housing:	Titanium & non-magnetic brass	

Data / sensor parameters

✓ Camera:	1280 x 1024 pixels CMOS
✓ Image format:	24-bit RGB
✓ Horizontal resolution:	360 to 1440 pixels
✓ Vertical resolution:	defined by logging speed (3.6 m/min for 1 mm resol.)
✓ Orientation sensor:	triple magnetometers / accelerometers
✓ Orientation precision:	$\pm 0,5^\circ$ inclination, $\pm 1^\circ$ azimuth

Accessories / options

✓ Natural gamma detector:	$\varnothing 25 \times 50$ mm NaI(Tl) crystal
✓ High Pressure kit OPTV52 :	$\varnothing 62$ mm / 200 bar (± 2000 m)
✓ Non magnetic centralisers	
✓ Sinker weight	
✓ Image reference calibrator	

Borehole conditions

✓ Open borehole:	Either dry or clean water-filled	
✓ Sonde must be centralised	OPTV38	OPTV52
✓ Recommended diam.range:	60 to 300 mm	75 to 600 mm

