



Monitoring with our borehole video inspection probe BTV 51 is a simple kind of electro-optical borehole exploration. With this camera vertical to subvertical boreholes with small diameters (from 60 mm on) can be explored up to maximum lengths of 50 m. Slide rods enable the exploration even in horizontal and ascending boreholes. By extension of the housing the camera can even be used when the stability of the borehole wall is not guaranteed, f. e. in back-fillings of railway tunnels. An additional module allows monitoring with side look, which is especially used for cavities or larger outbursts of the borehole wall. But this additional module needs boreholes at least of 80 mm diameter.

The borehole video inspection probe BTV 51 is particularly suitable for reliable control of drillings, or for exploration of injection boreholes to guarantee the success of the injection. In boreholes where the direction and the angle of incidence of fissures are to be determined, we recommend an exploration with the video probe ETIBS[®].

The complete equipment of the borehole video inspection probe BTV 51 consists of the following components as shown in Fig. 1: Camera with integrated lighting ring for optimum illumination of the borehole wall, cable reel with 50 m cable and electric depth indicator, rod adapter, 50 m precision slide rods, monitor with depth indication, video recorder.



Fig. 1 Components of the borehole video inspection probe

Technical Data:

Diameter of housing:	51 mm (71 mm with side look module)
Length of housing:	1200 mm
Lens:	2.1 mm; $f = 2.0$
Horizontal resolution:	460 TV lines
Frame scan:	Pal system 625 lines at 50 Hz
Video output:	FBAS (VHS)