

GLÖTZL Baumeßtechnik

BOREHOLE MODULAR PROBE – VIDEO MODULE

Borehole Surveying and Video Traversability System Glötzl

- Can be used as video system or as supplementary module for the approved Glötzl borehole modular probes, type BMS
- By up-to-date technology large transmission length up to 600 m
- Network-independent system
- Adjustable illumination
- Digitalization of picture information and transmission with high-speed
- Interface with 400 Mbps
- Pressure watertight model
- Available in Ex-execution for special applications

Type: BMS V45/1
Art. No. 78.01.05...

Application:

The video probe BMS-V is used for inspection in borings in all directions.

By its small outer diameter of 45 mm, the video probe can also be employed in small borings.

In connection with the basic probe, simultaneously borehole inclination measurements can be carried out.

Figure 1 shows the video module BMS-V45/1

The housing is manufactured of non-rusting and acid-resistant stainless steel and is furthermore pressure watertight.

Special luminous diodes are used for illumination. By this, a long durability of the illumination is granted. The luminous intensity can be adjusted according to the individual conditions in the borehole.

Figure 2 shows the objective around which an illumination ring is arranged. The objective is protected by an optically neutral, shock-resistant disk.

Figure 1



Figure 2



Technical Data Video Module, Type BMS-V45/1

Outer diameter:	Ø 45 mm
Overall length:	300 mm
Weight:	1.3 kg
Illumination:	15 LEDs, adjust.
White tuning:	automatic
Focussing:	automatic
Operating temperature:	0 - 40 °C
Resolution:	752 x 582 Pixel
Focal length:	3.5 mm
	Quality: SVHS

The following readout units are available:

For video acquisition

Television set with video-VHS as simple recording instrument, can be equipped with text input and microphone

For video acquisition and all BMS probe modules

Evaluation and control PC mains operated and 15"-monitor installed in special housing. Graph of video pictures and their record. Measurement of all borehole modular probes with the software GLNP and evaluation.

For network-independent application of site, video acquisition and all BMS probe modules

Notebook in special housing with integrated power supply. Graph of video pictures and their record. Measurement of all borehole modular probes with the software GLNP-Online and evaluation

Measuring procedure:

The video probe BMS-V can be operated either in connection with a Glötzl basic probe or as independent video probe with a guide adapter.

**Guide adapter
Figure 4**



Figure 3 shows an autarkical video measuring system with video probe, guide adapter, cable reel and acquisition unit with notebook. The guide parts are exchangeable and thus can be adapted to the borehole diameter.

Figure 5, guide adapter :

Type VS 90 for tubes with 90 mm and type VS 110 for tubes with 110 mm diameter. Further models can be delivered on request.



Figure 6:

Complete borehole modular probe equipment with basic probe and guide adapter for independent measurement with different guide parts, video module, compass for distortion measurement and cable reel with acquisition unit.

With the acquisition unit all inclination measurements and also the video inspection can be carried out. While doing this, the acquisition unit can be operated with accus as well as with mains supply.

