

IBIS-FS Plus

The advanced configuration for remote static and dynamic monitoring



An accelerometer version of IBIS-FS that mitigates the effect of large external vibration sources on radar results



IDS GeoRadar: Innovative Interferometric Radar for Mining, Environmental and Civil Engineering Applications



IBIS-FS Plus

IBIS-FS PLUS APPLICATIONS

The IBIS-FS Plus configuration is aimed at users who need to perform measurements in places characterized by large ground vibrations where the IBIS-FS is installed. These ground vibrations can be transmitted to the IBIS-FS tripod, affecting the measurement results.

For this purpose IBIS-FS Plus integrates an accelerometer on the radar head whose data is used for cancelling the self-induced vibrations transmitted to the radar from the ground.

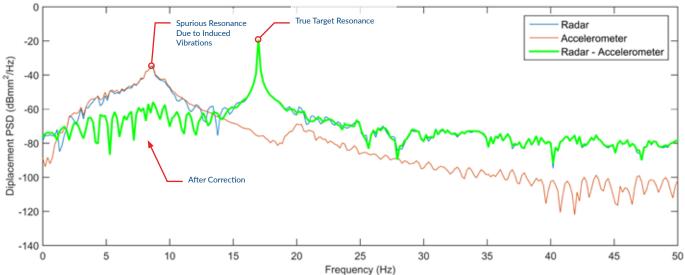


Fig. 1 Comparison of Radar and Accelerometer Frequency Series

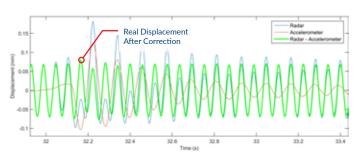


Fig. 2 Radar and Accelerometer Displacement

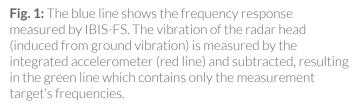


Fig. 2: Shows the effect of the above subtraction procedure on the resulting displacement of the target. Spurious displacements induced by soil vibrations are cancelled.



IBIS-FS Plus Incorporates an Accelerometer

