

## **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



 ${\tt IDS\,GeoRadar: Innovative\,Interferometric\,Radar\,for\,Mining, Environmental\,and\,Civil\,Engineering\,Applications}$ 



## **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.

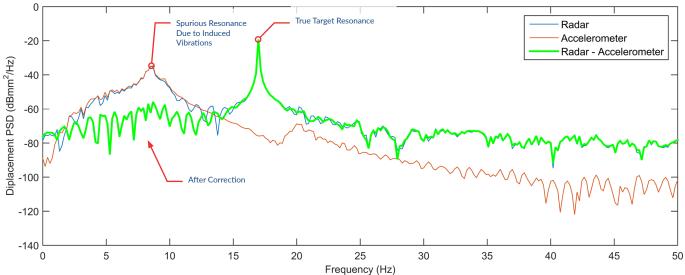


Fig. 1 Comparison of Radar and Accelerometer Frequency Series

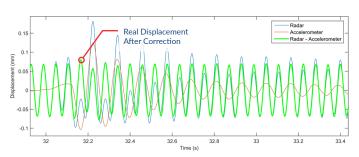
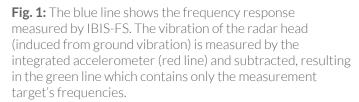


Fig. 2 Radar and Accelerometer Displacement



**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

