

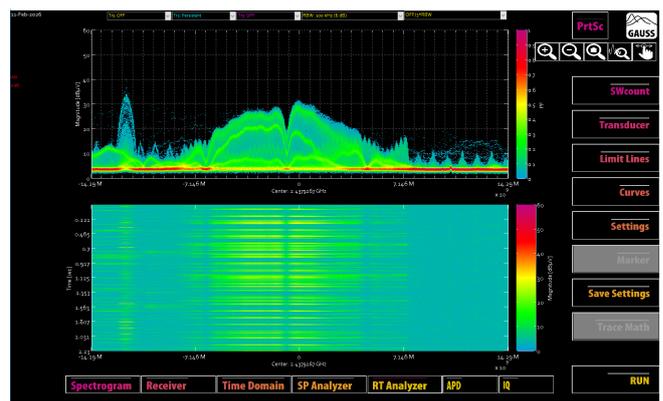
## Ultra-High Resolution Persistence Mode available for TDEMI Ultimate and TDEMI ULTRA

The TDEMI Ultimate series and TDEMI ULTRA series from GAUSS INSTRUMENTS are now available with an "ultra-high resolution Persistence Mode". Today, the Persistence Mode is typically used to detect hidden disturbances. In the traditional Persistence Mode known from conventional measurement instruments, the number of points is usually limited to 1000, and no weighting or pre-filtering is possible.

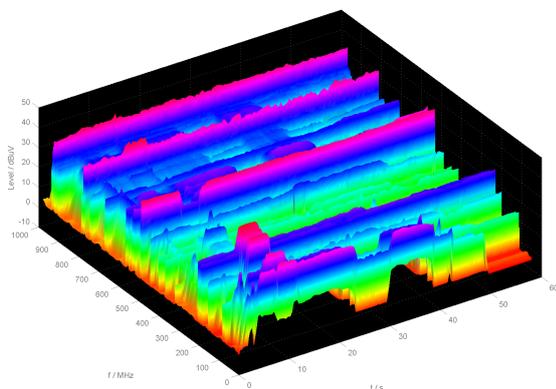
The TDEMI Ultimate and TDEMI ULTRA set a new benchmark in Persistence Mode performance, offering more than 50000 parallel points and significantly higher resolution. In addition to enabling standards-compliant emission measurements with 1 GHz real-time bandwidth and visualization of temporal behavior, the Persistence Mode also allows improved separation between the signal of the device under test and the surrounding environment based on statistical properties. The Persistence Mode of the TDEMI Ultimate and TDEMI ULTRA can be displayed with a resolution of up to 8k, ensuring that even the smallest details can be visualized. This also enables more precise analysis of multipath propagation and channel superposition in wireless channels, for example in the 2.4 GHz band. In addition to their speed, all TDEMI measurement instrument series now offer a wide range of innovations that simplify in-situ measurements, enable wireless measurements (without requiring additional external measurement devices), and provide an ultra-high resolution Persistence Mode for analyzing signals in free-field environments. Thanks to digital signal processing, these instruments also deliver outstanding accuracy and long-term stability.



**Fig. 1: Ultra-high resolution Persistence Mode with 1 GHz Bandwidth**



**Fig. 2: Measurement of a 2.4 GHz WiFi/Bluetooth-Band**



**Fig. 3: Measurement with 1 GHz Real-time bandwidth with QP-Detector**