Electric field measurement system

After 15 years of research and development, Kapteos has launched a comprehensive system to measure an electric field using the best possible technology in terms of performances to aim very high demands specifically in harsh environment.
This technology is regularly improved to increase the sensitivity of our probes with the long term target to be as sensitive as an antenna.

eoSense instrument with 3 eoProbe

The table below presents the main differences between the available

Parameters	Langmuir	Dipole	Hybrid	kapteos
Vector E-field	No	Yes	Yes	Yes
Temporal resolution	Few µS	≈ 30 pS	≈ 100 pS	≈ 10 pS
Dynamic range	?	?	130 dB	> 130 dB
Max E-field	?	?	≈ 1kV/m	> 10 MV/m
Max B-field	?	?	?	4.7 T[1]
Spatial resolution	?	?	?	< 1 mm
Multimedia	?	?	?	Air, liquids, gas, vacuum
Compactness	Very long	Very long	7 x 7 x 42 mm	5 x 35 mm
Non-invasive	Metal	Metal	Metal	No
Selectivity	No E-field	≈ 35 dB	?	> 50 dB
Sensitivity	< mV/m	mV/m	<< mV/m	50 mV/m/√Hz
Near field	Metal	Metal	Diode	Yes (0 mm)
Operating temperature	?	?	10 ... +35 °C	0 ... +50 °C
AF correction	?	No	?	Yes
Remote distance	Coax. cable	Coax. cable	Fibre optic	Fibre optic
Easy installation	?	Complex	?	Yes
Use outdoor	?	?	?	Yes
Set of accessories	?	?	?	yes

Definition of colours	Below market level	Same as market level	Above market level