

Ilmsens

Ilmsens, located in the university town of Ilmenau in Thuringia (Germany), is the m-sequence pioneer. The m-sequence is a pseudo noise transmission signal with which we can supply you with unique devices and modules, specially tuned to your requirements.

Our services

We provide you with custom-fit solutions for:

- research & development,
- teaching & training and
- the integration of sensors into your product.

We are at your side with our expertise and experience when it comes to selecting and implementing your projects.

Our products

The m:explore is the evaluation kit for microwave sensor technology, UWB technology and m-sequence technology. It will give you an impression of the performance and the unique parameters that can be achieved. Once it has convinced you, we will jointly develop the optimum OEM module for your products with you. This applies to the hardware as well as the software and the data evaluation.

OEM ready



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ILMSENS
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m:explore

evaluating microwave sensing

The m:explore is the latest generation of our evaluation kit, which has already proven itself in a multitude of applications. It is characterised by an ultra-wide frequency range, a high measuring speed, a low energy requirement and its sturdy and space-saving design.

The m:explore can be applied in sections and situations that have been inaccessible for established HF laboratory de-

vices so far. Entirely new research and development fields can be developed this way. This is supported by the simple option of constructing multi-channel systems.

The universal Matlab interface enables the safe and easy handling of the recorded data. Perfect for processing and developing your application scenarios.

network analysis
impedance spectroscopy
microwave imaging
short range sensing
time domain reflectometry

band width *	0,1..4 and 0,1..6 GHz
test signal	m-sequenz
test signal length	511 or 4095 samples
ports	1 Tx, 2 Rx; SMA
jitter **	15 fs
dynamic **	> 115 dB
update rate	< 1000 IFRS/s ***
output power	-4 dBm
interface	USB 2.0
power supply	12V; 240V
dimensions	115 x 215 x 55 mm