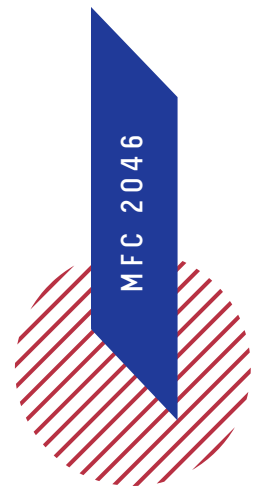




MAGNETIC FIELD CAMERA METROLAB MFC 2046

Revolutionizing Magnetic Field Mapping for MRI and NMR Applications

MRI and NMR spectroscopy applications require highly uniform magnetic fields, with tolerances down to just a few ppm. The Metrolab MFC 2046 is designed to meet this challenge, delivering the most advanced NMR Magnetic Field Camera technology. Leveraging the unmatched precision of NMR technology, magnetic field mapping is now faster, more accurate, and more reliable than ever before.



Complete Kit Solution

The MFC 2046 includes:

- PT2026 NMR Precision Teslameter (with camera firmware option)
- FCA7046 Field Camera Amplifier
- 3026-10M Cable
- MFCTool Software

Additionally, you can connect a Probe Array or any PT2026 probe for single-point measurements or multiplexing.

A New Era in Magnetic Field Mapping

- Compatible with both small and large bore magnets
 - Advanced shimming and field model validation
 - Reduced error rates and increased efficiency
- The Metrolab MFC 2046 is designed to transform your production and service operations. It's the ideal tool to meet your needs for speed, precision, and flexibility in magnetic field mapping.

Key Features

1 Exceptional Performance and Precision

- **Magnetic Field Mapping:** Advanced NMR technology delivers 10 ppb (10^{-8}) resolution.
- **Positioning Accuracy:** Precision mechanical construction ensures sub-1 mm tolerances for positioning.
- **Speed:** A complete field map can be generated in just 5 minutes.

2 Comprehensive Measurement Capabilities

- **Magnetic Field Range:** Measures fields from 0.2 T to 30 T (1.1 GHz).
- **Small Bore Magnets:** Capable of mapping magnets with bores as small as 40 mm.
- **255 Measurement Points:** Supports significantly more measurement points than previous systems (limited to 32).

3 Flexibility and Versatility

- **Single Point and Mapping Capabilities:** The MFC 2046 supports both NMR Probe Arrays and single-point NMR probes.
- **33 Hz Update Rate:** Detects low-frequency magnetic noise in real-time.

Modern User Experience

1 User-Friendly Software

- **MFCTool v10:** A specialized user interface tailored to the production workflow for easy learning and quick operation.
- **XML-Based Format:** A new, powerful file format provides real-time access to measurement results.
- **Backward Compatibility:** Supports the previous generation Magnetic Field Camera, MFC3045.

2 Advanced Connectivity Options

- **USB and Ethernet Interfaces:** Seamless integration with industry-standard protocols and well-documented command sets.
- **PT2026 Integration:** Uses the PT2026 NMR Precision Teslameter as its main unit, equipped with camera firmware.