Automated Impedance Tuner Startup Assistance

Maury Microwave Automated Impedance Tuner

Congratulations on acquiring a Maury Microwave automated impedance tuner! Your tuner will become an invaluable part of your test and measurement system and provide you with years of service. Now that you have received your tuner, it's time to learn how to use it. Maury offers various assistance programs, as follows:

- Self-guided startup assistance – teach yourself how to use your new tuner

- Guided startup assistance – we'll teach you how to use your new tuner

- Guided external control assistance – we'll teach you how to integrate the tuner into your custom code

Self-Guided Startup Assistance

Maury's automated impedance tuners are designed for ease-of-use, with three methods of interfacing with the tuner:

- Direct commands over TCP/IP (SCPI-like)
- Integrated web interface
- MTUNE3 tuner characterization and control software (cloud and desktop versions available at no cost)

Each tuner is shipped with an operation manual that explains how to connect the tuner to your computer via Ethernet or USB, lists the complete command set and gives examples on how load tuner characterization files, set frequencies and de-embedding files, and tune impedances, and shares an overview of the integrated web interface with point-and-click tuning. Maury's MTUNE3 tuner characterization and control software is available in cloud and desktop versions and is available at no cost. MTUNE3 includes video tutorials on how to use the software to define your instrumentation, characterize a tuner, validate a tuner characterization, and perform impedance tuning (note, MTUNE3 does not perform measurements, only impedance tuning). Your tuner comes with everything you need to self-teach and become proficient with your new tuner.

Guided Assistance

Guided assistance is invaluable. It reduces the learning curve, enabling users to quickly grasp the tuner's functionalities and maximize its potential. This leads to improved productivity and efficiency, saving time and resources. It ensures accurate and reliable results, as users receive step-by-step instructions and best practices, minimizing errors and data inconsistencies. Additionally, it boosts confidence and encourages exploration of advanced features, encouraging users to leverage the equipment's full capabilities. Ultimately, guided startup assistance fosters a positive user experience, empowering individuals to achieve optimal results and attain proficiency swiftly.

Guided Startup Assistance (MT905A)

Maury's guided external control assistance covers the following topics:

Tuner and calibration concepts

- *Tuner overview*
- *VNA calibration theory and validation best practices*
- *Introduction to MTUNE software application*
- *Tuner characterization and characterization validation*
- *Managing tuner characterization files*

Best practices

- *Optimizing tuner characterization time*
- *Achieving the desired level of impedance tuning accuracy*

Introduction to external control

- *Direct commands*
- *Socket control*

Time: Up to 4 hours

Guided External Control (Integration) Assistance (MT905B)

Maury's guided external control assistance covers the following topics:

In-depth review of external control

- *Direct commands*
- *Socket control*

Alignment on external control requirements

- *Programming language*
- *Integration requirements (i.e. input and output variables, loops and data management)*
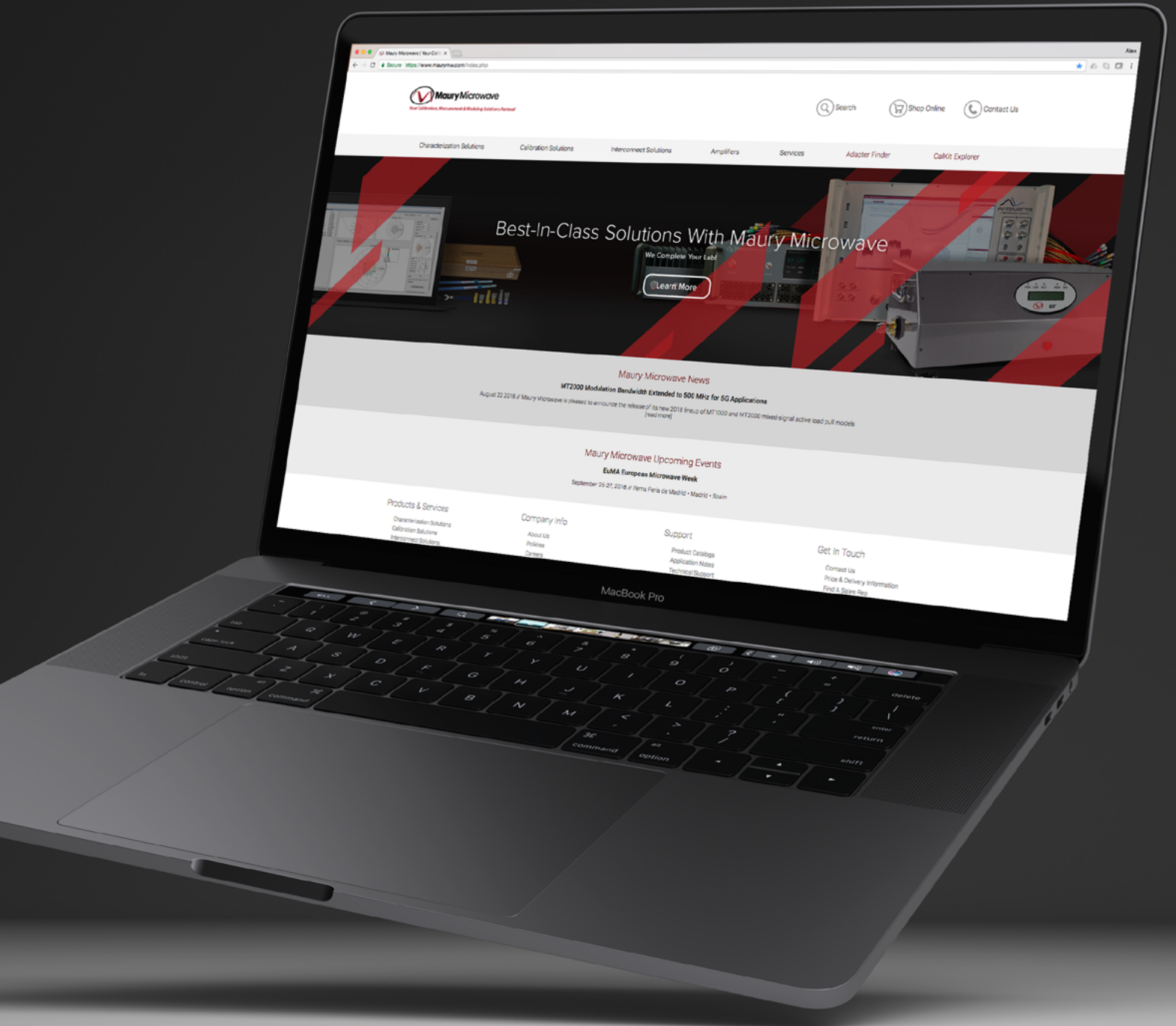
Tuning object integration

- *Assistance in developing tuning object in programming language with defined variables*

Time: Up to 4 hours

Regardless of which option you choose, we are confident your Maury tuner will offer years of faithful service. Thanks for choosing Maury Microwave, your calibration, measurement and modeling solutions partner!

Maury Microwave