











CLINICAL & RESEARCH TMS SYSTEM

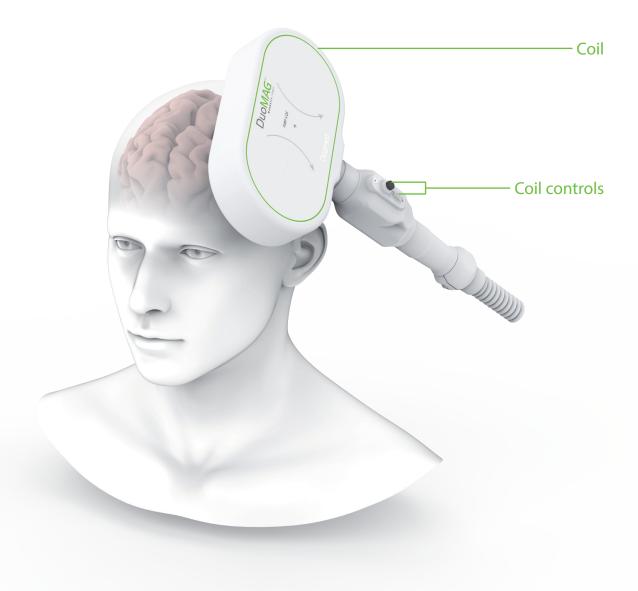




What is TMS?

Transcranial Magnetic Stimulation (TMS) can be used by neuroscientists to measure the activity and function of specific brain circuits in humans. Through the placement of an electromagnetic coil on a patient's head, the TMS system can generate a very strong magnetic field that passes through the scalp and into the individual's targeted brain regions in order to induce action potentials in the subject.

The most robust and widely accepted use of TMS is in the measurement of the connections between the primary motor cortex and a muscle to evaluate damage in patients suffering from neurological diseases and conditions such as stroke, multiple sclerosis, amyotrophic lateral sclerosis, movement disorders, motor neurone disease, migraine, and other injuries and disorders that affect the facial and cranial nerves and the spinal cord.







Advantages of DuoMAG TMS

Deymed manufactures reliable and high-quality neurodiagnostic and neurocare systems. Our goal is to advance the Neurology and Neurophysiology fields to new heights with bold engineering innovations. All Deymed neurocare systems are designed for ease-of-use and durability with advanced features intended to optimise and simplify your workflow.



Intelligent Charging NEW

Deymed's new ultra-low capacitance induction charging technology guarantees the highest quality EMG signal possible for sensitive neurophysiological tests, while also keeping the system's batteries full.



Powerful System

Capable to deliver intensive monophasic pulse with repetition rate up to 0.5 Hz at 100% intensity with single unit, up to 1.0 Hz with MP-Dual and up to 2.0 Hz with QPS at 95% intensity.



Multi-system Integration

Integration with Deymed's clinical EMG and EEG amplifiers allows multiple configurations of EMG/MEP or EEG signals to be displayed. Deymed amplifiers are designed to eliminate TMS stimulation artefacts.



Touch-Screen Interface

Combined with intuitive software for ease of use. Built on a Windows platform, allowing full integration for third-parties products such as; neuro-navigation.



Session and Patient Report NEW

PDF reports can be generated for specific patients or sessions. 'Patient Report' shows a list of performed sessions, while 'Session Report' shows detailed information on performed stimulation protocols or MEP.



Counter-balanced Coil Holder

The MagTower cart with its counter-weight balanced positioning arm and auto-locking position greatly reduces the effort required to find and secure the placement of coils.



Cooled Coil

Deymed coils with double air-cooled fans or liquid-based systems allow for even the most intense TBS protocols to be used for extended periods without over-heating the system.



Custom Protocol Editor

The Custom Protocol Editor allows the user to save any conceivable protocol design, including customisable stimulation trains and changing stimulation intensities.

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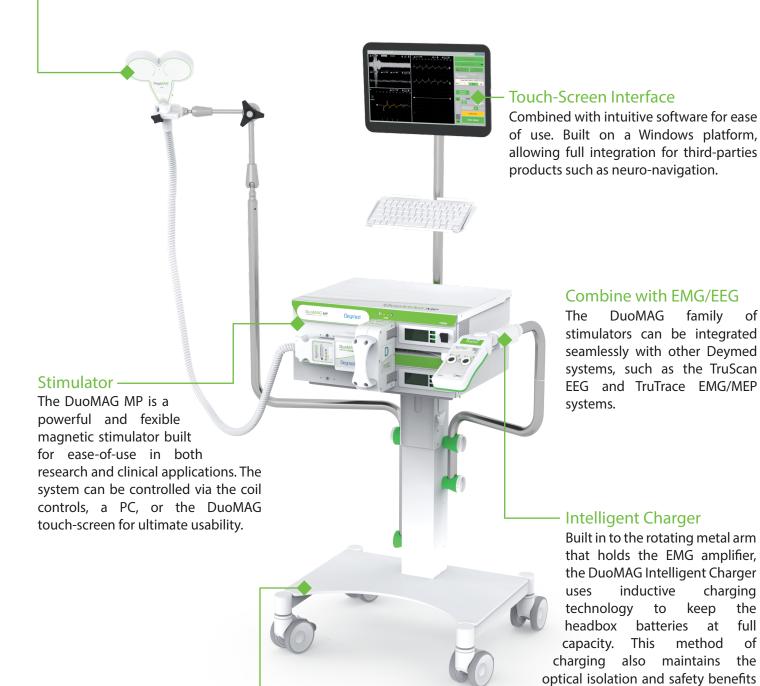
of battery-operated EMG for sensitive

neurophysiological tests.



User-friendly Coil Controls

Built-in controls allow full control over stimulation and intensity settings through the coil handle, removing the need for the user to divert their attention to external panels or triggers, and allowing the system to be used by a single operator.



Special developed Cart -

Designed with robustness and space in mind, the carts small overall footprint, integral coil arm and large easy roll wheels means the DuoMAG MP is to fit into the most demanding of environments.

COMPACT

The DuoMAG MP or DuoMAG MP-Dual can be placed on a desktop or similiar surface in this compact space saving configuration.





MagCart

The MagCart configuration is an easy to move configuration that takes up minimal space. An articulating arm allows the coils to be quickly locked into place after positioning.

MagCart MP-Dual

The MP-Dual with Cart is a flexible configuration for advanced research and clinical uses of two Deymed's Mono-phasic stimulators. This configuration allows the user to easily move the system from room-to-room and perform dual-pulse mono-phasic stimulation with full control of all stimulation parameters at the touch of the screen.



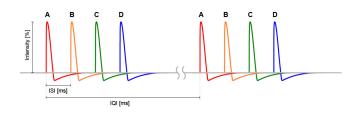
DuoMAG QPS

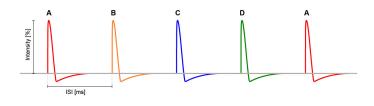
- The DuoMAG QPS combines four DuoMAG MP units to provide fully programmable quadro-pulse stimulation through a single stimulation coil.
- The DuoMAG QPS can also be used with four separate coils to carryout interhemispheric (quadrolateral) stimulation.
- By controlling the pulse intervals and power level of each DuoMAG MP, it is possible to provide precise sub- and supra-treshold conditioningand test pulses. This is useful for the investigation of Inter-Cortical and Intra-Cortical Inhibition and Facilitation.
- The Inter-stimulus interval (ISI) for the four pulses is adjustable either in the supplied control software or external control via TTL inputs.
- Each DuoMAG MP can be run independently in the QPS control software or as a standalone DuoMAG MP magnetic stimulator.
- The DuoMAG QPS allows users to combine the two stimulator pulses into a single pulse providing a pulse amplitude that equates to 140% of a single DuoMAG MP output.



Fully Programmable Quadro-pulse Stimulation

- ISI from 1 ms to 800 ms
- IQI from 500 ms (2 s at maximum output)
- Configurable intensity for each A, B, C and D stimuli.
- Up to 8 Hz continuous repetition rate (2 Hz at maximum output)









70BF-LQC / 60BF-LQC

Butterfly Coil 70mm and 60mm with liquid cooling

Typical use:

Focused long-term cortical stimulation, mainly for rTMS.



120BFVT

Butterfly V Cone Coil 120 mm with 100° angled surface

Typical use:

Deep spinal stimulation.



70BFX-LQC

Butterfly Overlapping Coil 70mm

Typical use:

Focused long-term cortical stimulation, mainly for rTMS. More comfort for the patient, due to coil design.



50BFT

Butterfly T-shaped Coil 50mm

Typical use:

Precisely focused stimulation, for rTMS.



90BFVT-LQC

Butterfly V Cone Coil 90mm and 120° angled surface

Typical use:

Deep stimulation.



30BFT

Butterfly T-shaped Coil 30mm

Typical use:

Precisely focused stimulation.



70BF - Cool

Butterfly Coil 70mm with cooling fans

Typical use:

Focused long-term cortical stimulation, mainly for rTMS. Active cooling is not available with MP and MP-Dual.



100R

Round Coil 100mm

Typical use:

Stimulation of peripheral nerves or cortical stimulation.



70BF

Butterfly Coil 70mm

Typical use:

Focused stimulation, mainly for rTMS.



125R

Round Coil 125mm

Typical use:

Spinal stimulation.



50BF

Butterfly Coil 50mm

Typical use:

Precision focused stimulation, mainly for rTMS.



LIQUID COOLING

Requires liquid-cooling unit



AIR COOLING



+ All coils have controls of intensity and stimulation







DEYMED Diagnostic s.r.o.

Kudrnacova 533

549 31 Hronov

Czech Republic



info@deymed.com



www.deymed.com



+420 491 481 038

*For users in the USA: The magnetic stimulator DuoMAG is considered an investigational device. Limited by Federal (or United States) Law only to investigational use.

Please note that this product may not be approved by regulatory authorities in your country/region

For the Czech Republic: Intended exclusively for healthcare professionals according to Czech Act No. 40/1995 Coll. on regulation of advertising as amended





Epileptology EEG



Magnetic stimulators TMS



Somnography PSG

