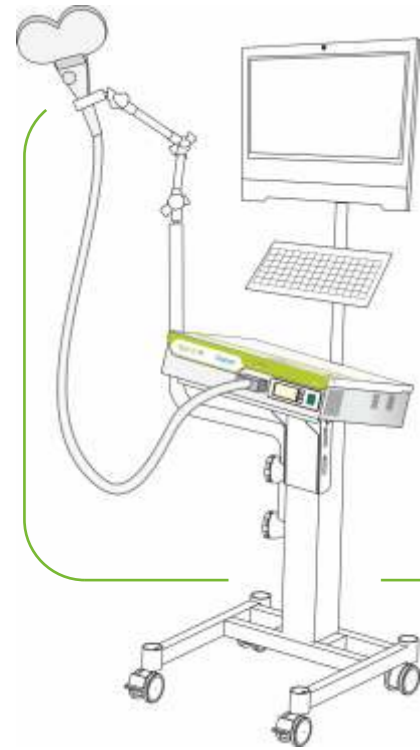




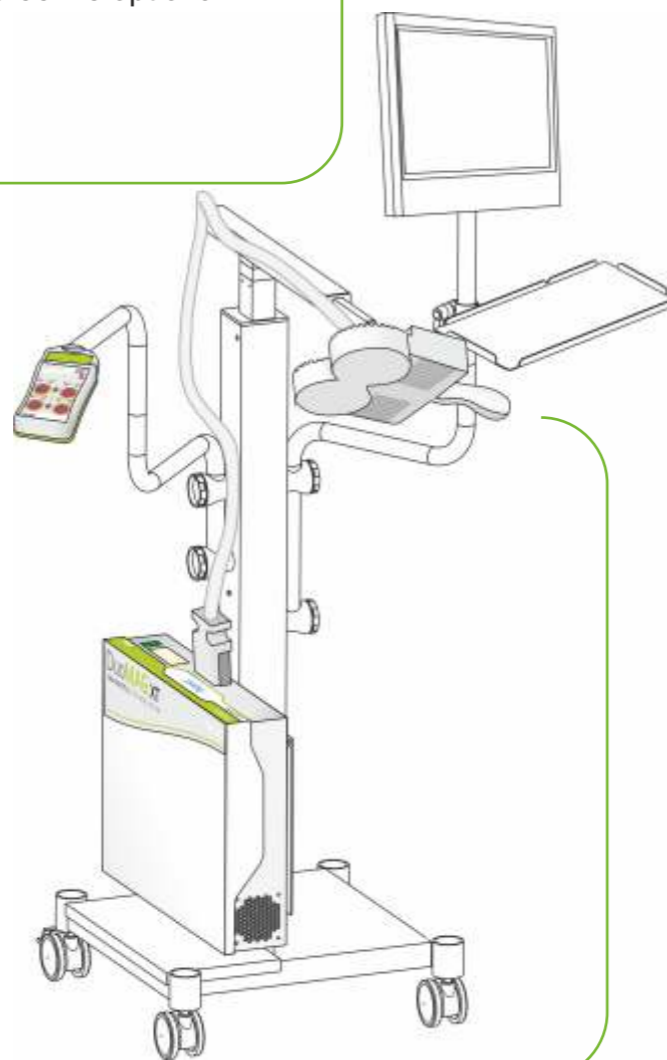
COMPACT:

The DuoMAG XT can be put on a desktop or elsewhere 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. A touch-screen is optional and may be added.



MagTower:

The MagTower is an innovative counter-weight balanced coil-holder for TMS. This significantly lowers the weight of the coils for use in any scenario where the user doesn't want to struggle with difficult coil positioning, especially when finding the motor threshold. Locking the position is easy with the click of a button. A touch-screen interface includes protocol design and control and MEP visualization with EMG module.

Product Specification:

| | DuoMAG™ XT-10 MAGNETIC STIMULATION | DuoMAG™ XT-35 MAGNETIC STIMULATION | DuoMAG™ XT-100 MAGNETIC STIMULATION |
|-----------------------------|---------------------------------------|---------------------------------------|--|
| Pulse mode | biphasic, repetitive | biphasic, repetitive | biphasic, repetitive, burst |
| Dimensions | 49 cm x 16cm x 38 cm | 49 cm x 16 cm x 38 cm | 49 cm x 16 cm x 38 cm |
| Weight | 17 kg | 17.5 kg | 17.5 kg |
| Stimulation intensity 100 % | 5 Hz | 13 Hz | 22 Hz |
| Maximum repetition rate | 20 Hz | 50 Hz | 100 Hz |
| Pulse width | 290 µs | 290 µs | 290 µs |
| Coil Compatibility | Deymed coils | Deymed coils | Deymed coils |
| Main voltage | 100-240Vac 50/60 Hz | 100-240Vac 50/60 Hz | 100-240Vac 50/60 Hz |
| Synchronization | TTL in/out and/or USB | TTL in/out and/or USB | TTL in/out and/or USB |
| Communication | USB full control, control on coil | USB full control, control on coil | USB full control, control on coil |

A motor threshold (MT) can be found at 47% stimulation intensity for the majority of the population (>90%) on all devices. DuoMAG XT-100 can reach 100 pps at 45% intensity. The nearest competitor can only reach 30% intensity at 100 pps.



www.deymed.com
email: info@deymed.com

EU: Kudrnacova 533, 54931 Hronov, Czech Republic
tel.: +420 491 481 038

Other Deymed products:

TruTrace™ EMG
NCS/EMG/SEP | SYSTEM

The first ever battery powered EMG system offering contamination-free nerve conduction and needle EMG examinations.

SomniPro™ (PSG)
PSG/EEG/LTM | SYSTEM

Advanced wireless polysomnographic system including infra-red HD video monitoring and full 10/20 EEG recording.

TruScan™ EEG
EEG/EP/LTM | SYSTEM

Technically advanced EEG system built for demanding clinical and research use. The system can be configured as a portable, clinical or long term monitoring station.

DuoMAG™ MP-Dual
DUAL MONOPHASIC | STIMULATOR

Advanced Dual-Monophasic magnetic stimulator for clinical and research use.

BrainFeedback™ BFB
NEUROFEEDBACK | SYSTEM

Clinical grade Neurofeedback system designed for clinicians wishing to use the highest standard for Neurotherapy.

NeuroTablet™ (RS)
EEG RECORDING | SYSTEM

Ultra-portable EEG for ambulatory monitoring and home video telemetry including build-in infra-red and wireless functionality.

Deymed Original Accessories

Complete line of accessories for clinical use.

World-Wide Support & Service

Phone, Email and Remote Desktop Support for Superior Service

Distributed by:

DuoMAG XT rTMS rev DMXT-BD191



**CLINICAL & RESEARCH
rTMS SYSTEM**

Deymed Engineering Advantages

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

Read below to learn of just a few engineering advantages that set Deymed apart:



Powerful system - Capable of intensive high frequency protocols for the most complex clinical, psychiatry and research use. DuoMAG XT-100 can reach 100 pps at 45% intensity.



Counter-balanced coil holder - FlexiTower cart with innovative counter-weight balanced positioning arm and auto-locking of position that greatly reduces the effort needed to find and fix the placement of Deymed coils.



Cooled coil - When used with 70BF-Cool coil, even intense TBS protocols can be used all day without over-heating the coil due to the double air-cooled fans and advanced coil design. Light and maintenance free design.



Multi-system integration - Integration of Deymed's clinical EMG or EEG amplifiers, allowing multiple configurations of EMG / MEP or EEG signals to be displayed. Amplifiers especially designed to eliminate TMS stimulation artefacts.



Touch-Screen Interface - Combined with intuitive software assures ease of use. Touch-screen interface built on Windows, allowing tight integration of Brain navigation by third-parties.



About rTMS:

Transcranial magnetic stimulation (TMS) is a noninvasive method to cause depolarization or hyperpolarization in the neurons of the brain. This is accomplished by using electromagnetic induction to induce weak electric currents via rapidly changing magnetic fields. These magnetic fields affect specific or general parts of the brain with minimal discomfort, allowing the functioning and interconnections of the brain to be studied. Recent research has shown that rTMS (repetitive transcranial magnetic stimulation) may be effective as a treatment tool for various neurological and psychiatric disorders including: Depression, Parkinson's Disease, Tinnitus and Auditory Hallucinations.

DEYMED COILS

70BF - Cool

Butterfly Coil 70mm with controls and cooling fans
Typical use: Focused long-term cortical stimulation, mainly for rTMS.
Can be used with the counterweight balanced coil-holder on the MagTower Configuration.



70BFP Placebo

Butterfly Coil 70mm with controls for blinded studies.

50BF T-shaped

Butterfly Coil DuoMAG 50mm T-shaped

Typical use:
Very focused cortical stimulation, mainly for rTMS. Paired pulse stimulation with twin coil configuration due to smaller size.



100R

Round Coil 100mm with controls

Typical use:
Stimulation of peripheral nerves or shallow cortical stimulation.



125R

Round Coil 125mm with controls

Typical use:
Spinal stimulation.

120BFV

Butterfly V Cone Coil 120mm with controls

Typical use:
Deep cortical stimulation.



70BF

Butterfly Coil 70mm with controls
Typical use: Focused cortical stimulation, mainly for rTMS.

70BFP - Cool Placebo

Butterfly Coil with controls and cooling fans for blinded studies.

50BF

Butterfly Coil 50mm with controls

Typical use:
Very focused cortical stimulation, mainly for rTMS.
Paired pulse stimulation with twin coil configuration due to smaller size.



Note: Custom coils can be requested to be designed for research use.



System Overview:

The DuoMAG XT is a powerful and flexible magnetic stimulator built for ease-of-use in both research and clinical scenarios. The system can be controlled via the coils, a PC or the DuoMAG touch-screen for ultimate ease-of-use. A major advantage of the DuoMAG family is the option to seamlessly integrate with other Deymed systems including the TruScan EEG and TruTrace EMG/MEP systems. This flexibility makes the DuoMAG unrivaled in its possibilities as it can be expanded and enhanced to add more options. The system is offered in multiple configurations, from Compact, Cart model and the innovative MagTower that is the first counter-weight balanced arm holder for TMS. The MagTower significantly reduces the difficulty of holding and positioning heavy magnetic coils.

Features:

- Custom protocol editor allowing the saving of any conceivable design, including stimulation trains, Theta Burst Stimulation (iTBS-cTBS) and changing stimulation intensities.
- FlexiTower cart with innovative counter-weight balanced positioning arm and auto-locking of position that greatly reduces the effort needed to find and fix the placement of Deymed coils.
- Integration of Deymed's clinical EMG or EEG amplifiers, allowing multiple configurations of EMG / MEP or EEG signals to be displayed.
- Touch-screen interface built on Windows, allowing tight integration of Brain navigation by third-parties.
- Stimulation intensity and Start-Stop controls on the coil for fast and easy access.
- Installed on a Deymed cart with wheels for easy movement from room to room.
- When used with 70BF-Cool coil, even intense TBS protocols can be used all day without over-heating the coil due to the double air-cooled fans and advanced coil design.

The Deymed DuoMAG XT rTMS is the next-generation for magnetic stimulation devices.