



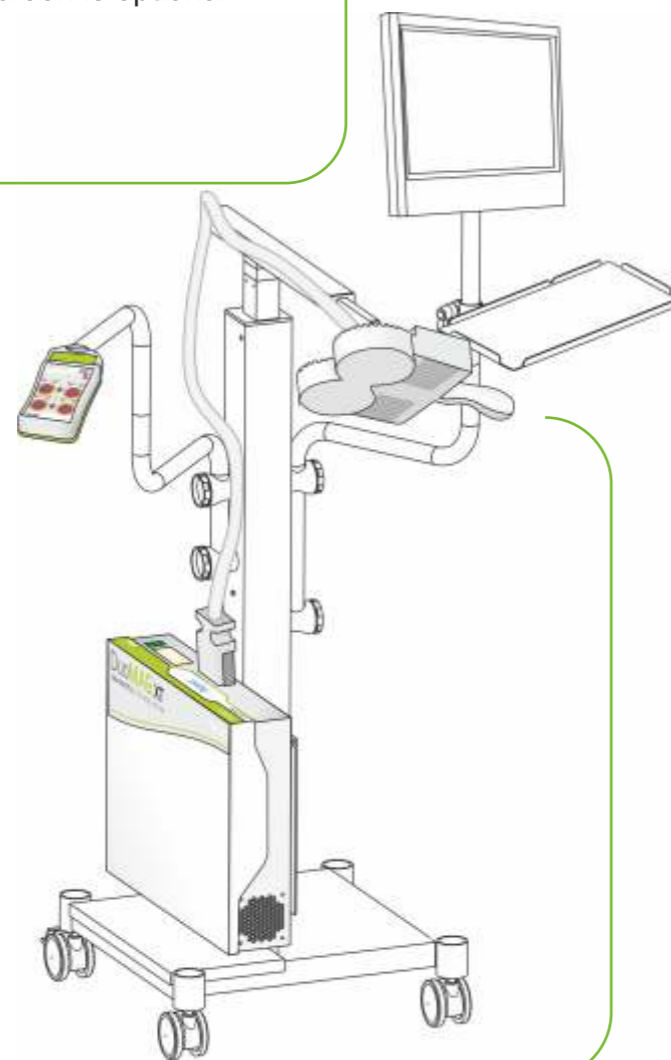
COMPACT:

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, burst	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
Stimulation intensity 50 %	10 Hz	35 Hz	86 Hz
Maximum repetition rate	10 Hz	35 Hz	100 Hz
Minimum interstimulus interval in train mode	1 ms	1 ms	1 ms
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

USA: 1720 N. 7th Ave, Payette, ID 83661, USA
tel.: 1-888-670-7848 fax: 1-888-670-7848

EU: Velky Drevec 91, 54934 Hronov, Czech Republic
tel.: +420 491 481 038 fax: +420 491 481 513

Other Deymed products:

TruScan® EEG
EEG/EP/DTM 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.

SomniPro® PSG
PSG/EEG/DTM SYSTEM

Offers advanced polysomnographic tests including video monitoring and full EEG recording.

BrainFeedback® BFB
NEUROFEEDBACK SYSTEM

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

DuoMAG™ MP-Dual
DUAL-MONOPHASIC STIMULATOR

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

TruTrace® EMG
NCV/EMG/EP SYSTEM

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

SomniPro® (LT)
WIRELESS PSG SYSTEM

Small light weight PSG ambulatory wireless system for clinical and home use.

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-BD181



**CLINICAL & RESEARCH
rTMS SYSTEM**

DuoMAG™ XT

rTMS | STIMULATOR



Introduction:

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.

DEYMED COILS

50BF



70BF
70BF PLACEBO



70BF-Cool
70BF-Cool Placebo

120BFV



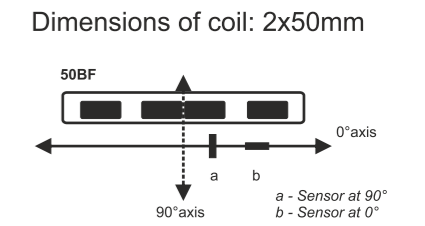
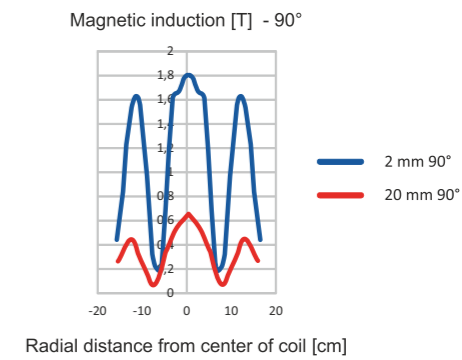
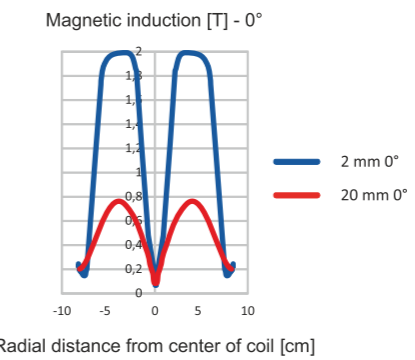
100R



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

MAGNETIC FIELD CHARACTERISTICS OF SELECTED DEYMED COILS

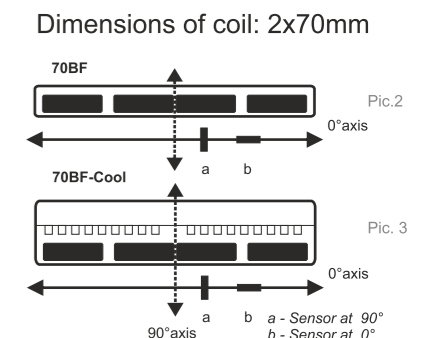
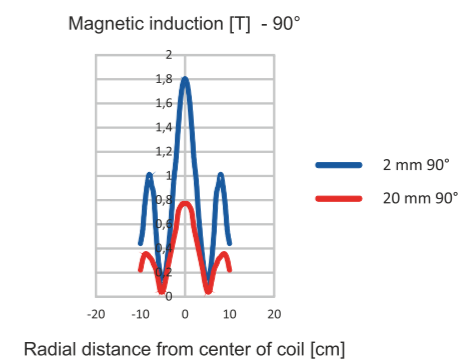
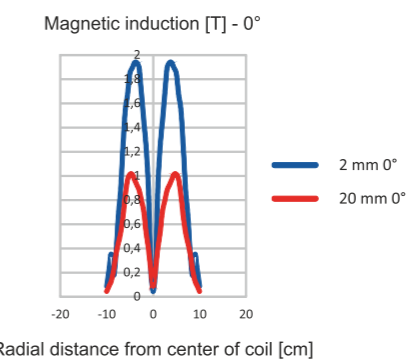
50BF



Pic.1

Maximum intensity of magnetic induction at surface of coil 2.0T

70BF / 70BF-Cool

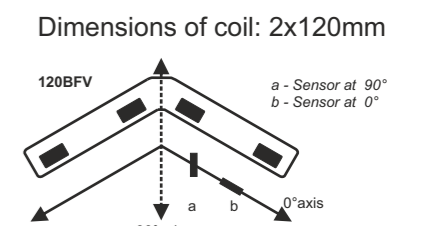
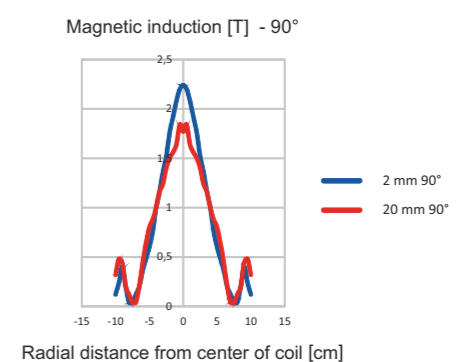
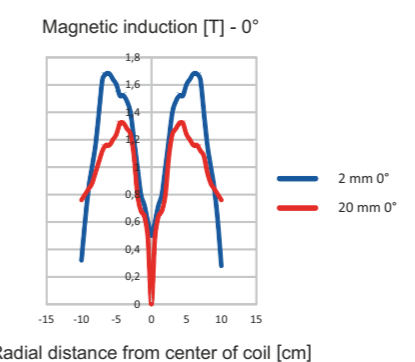


Pic.2

Pic.3

Maximum intensity of magnetic induction at surface of coil 2.0T

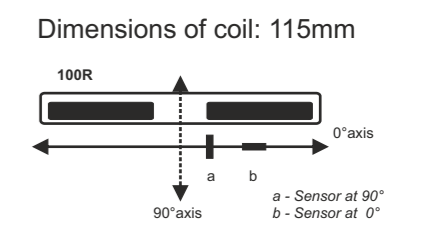
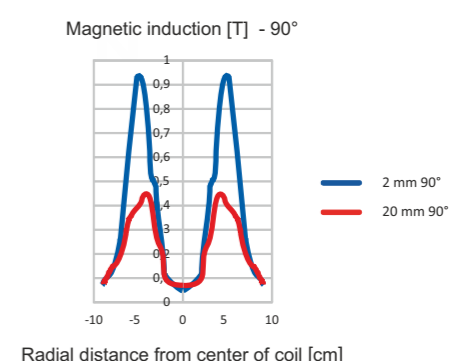
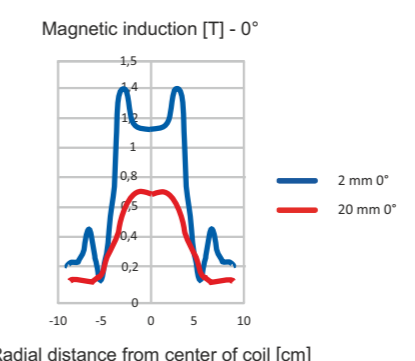
120BFV



Pic.4

Maximum intensity of magnetic induction at surface of coil 2.3T

100R



Picr.5

Maximum intensity of magnetic induction at surface of coil 1.4T

Characteristics are measured in distances from 2 mm to 20 mm from surface of coil with scanning sensor situated from 90° to 0° from surface of coil (see pic. 1-5). Maximum magnetic induction is measured on surface of stimulation coils. All parameters were measured at 100% intensity of stimulator DuoMAG XT-100.