Company: Karel Hrnčíř – BIOMAG Chomutice 81

507 53 Chomutice, CZ IČ: 18848125, DIČ: CZ570223085



Headquarters:

Průmyslová 1270 506 01 Jičín, CZ IČP: 1002612233

Datasheet

Medical Device: Pulsed Magnetic Therapy Device

Model: BIOMAG® Lumina 3D-e

BIOMAG® Lumina 3D-e EASY without battery BIOMAG® Lumina 3D-e EASY with battery BIOMAG® Lumina 3D-e CLINIC without battery BIOMAG® Lumina 3D-e CLINIC with battery

Description	Values	
Software version	Display on the screen www.biomag-medical.com/info/	
Power supply voltage	~ 100 to 240 V, 50/60 Hz	
Device input power	60 VA	
Voltage of integrated power source	24 V DC	
Device insulation class	II.	
Applied part type	BF type	
Power cord	H05VVH2-F 2 x 0.75 mm / H03VVH2-F 2 x 0.75 mm	
Environment	Normal	
Protection grade	IP 30 *	
MIMI – maxim intensity of magnetic induction	Max. 35 mT	
Output regulation (intensity)	EASY Without regulation	CLINIC 12 levels 1, 5, 10, 20, 30, 40, 50, 60, 70, 80, 90,100%
Number of outputs for applicators	4	
Number of EASY programs	6 programs	
Basic number of programs in MY PROGRAMS for the EASY mode (possibility of copying the program without changing the name / with changing the name)	** 1 most frequently used + 8 possibilities	
Number of CLINIC programs	6 programs	
Basic number of programs in MY PROGRAMS for the CLINIC mode (possibility of copying the program without changing the name / with changing the name)	*** 1 most frequently used + 200 possibilities	
Frequencies of programs	EASY 4-81 Hz	CLINIC 4-81 Hz
Pulse shape	Rectangle (modified according to frequency)	
Pulse leading edge width (dependent on the selected program and applicator induction)	0.4-2.5 ms	
Pulse width	1.1-11.1 ms ****	
Pulse descending edge depending on the applicator induction	0.5-3.5 ms	
Number of time ranges	9	
Application times	5, 10, 15, 20, 25, 30, 45, 60, 90 min	
End of application	Acoustic indication + Display	
Warning messages	Acoustic indication + Display	
EMC – electromagnetic compatibility	CSN EN 60601-1-2 ed. 3:2016	
Ambient temperature around the device	+5°C to +35°C	
Device dimensions	240 x 162 x 75 mm	
Display	3.5' TFT	
Device weight	0.845 kg	
Type of accumulator (if included in the system)	Lithium battery LIP745690P/2S	
Accumulator weight	165 g	
Operation time when powered from accumulator (with 4 outputs occupied)	approx. 160 min	
Accumulator recharging time	7 hours	

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Programs and their parameters Pulse Order Name Frequency / sequence time Wobbling Intensity Application time shape **PAIN-RELIEVING EFFECT** EASY: without Program 5-12 Hz 15 Hz 25 Hz Gradually EASY: 20 min regulation Rectangle CLINIC: 20 min (5-90 min) No. 1 2 min 30 s 15 s 15 s increasing promoting CLINIC: 1-100% pain relief **HEALING EFFECT** EASY: without gradually **Program** promoting healing accompanied by regeneration, 50-81 Hz EASY: 20 min 12 Hz increasing / regulation Rectangle No. 2 2 min 30 s CLINIC: 20 min (5-90 min) CLINIC: 1-100% 30 s after pulse anti-inflammatory and anti-rheumatic effects **ANTI-SWELLING EFFECT** EASY: without **Program** 12-15 Hz 50-75 Hz Gradually EASY: 20 min regulation Rectangle CLINIC: 20 min (5-90 min) No. 3 promoting the reduction 2 min 30 s 30 s increasing CLINIC: 1-100% of swellings MYORELAXING **EFFECT** EASY: without **Program** 10-19 Hz Gradually EASY: 20 min regulation Rectangle increasing CLINIC: 20 min (5-90 min) No. 4 promoting the reduction 3 min CLINIC: 1-100% of spasms and swellings VASODILATING **EFFECT** EASY: without after pulse / **Program** EASY: 20 min 19 Hz 50-80 Hz gradually regulation Rectangle CLINIC: 20 min (5-90 min) No. 5 promoting vasodilation 1 min 2 min increasing CLINIC: 1-100% and blood circulation **DETOXIFYING EFFECT** EASY: without **Program** 4-12 Hz 50-81 Hz EASY: 20 min Gradually regulation Rectangle CLINIC: 20 min (5-90 min) 2 min increasing No. 6 1 min promoting metabolism CLINIC: 1-100% and detoxification

Sequence = the group of frequencies that repeat periodically over the application time.