QUANTA mrt888 | molecular resonance generator

INNOVATIVE TECHNOLOGY
FOR THE SURGICAL TREATMENT

QUANTA mrt888 MOLECULAR RESONANCE GENERATOR

Quantum molecular radiofrequency energy that breaks the molecular bonds without causing thermal damage to the cells, thus obtaining a sharp cut, precise and without eschar, leaving the surrounding tissue perfectly intact. The unit is able to generate the frequencies of cell safety spectrum in resonance with the frequencies of molecular bonds because of molecular resonance principle.

Fast recovery, painless and without any postoperatory problems.

PRODUCT OVERVIEW

QUANTA mrt888 Radiosurgical Molecular Resonance Generator is a modern radiosurgical unit provided with 4 MHz band of frequencies. This allows the surgeon to use the right frequency for every requirement.

Each function and setting can be selected to carryout a non-traumatic cut and a soft coagulation.

The device is provided with C.S.S. frequency for the operating room with cut and coagulation functions, for a coagulation without carbonization (under 65^0C) and for a cut without thermic diffusion (under 50^0C).

The last two frequencies can work also in Timed Mode. Bipolar function is also available both for cut and coagulation.

The unique features of QUANTA mrt888 make it extremely good for every application.

FIELDS OF USE

- General surgery
- Plastic surgery
- Aesthetic surgery
- Reconstructive surgery
- ENT
- Gynaecology
- Dermatology
- Proctology
- Laparoscopy
- Urology
- Odontostomatology
- Ophthalmology
- Neurosurgery
- Arthroscopy
- Endoscopy
- Endoscopic Spine Surgery

Different accessories are available for every application. Please refer to the catalogue.

Therapeutic Module: QUANTA can be upgraded for therapeutic applications. With the upgraded module into the basic unit the frequencies of cell safety spectrum are transferred at cellular level stimulating the injured tissue to induce the regenerative process. All these frequencies are transmitted to the patient's injured tissue at the same time. The therapy with QUANTA does not consist in inducing mere reparation of injured tissues but in stimulating instead a proper regeneration of the injured structures, leading therefore to a new tissue which has the same properties and characteristics of the original one.

The therapeutic action of QUANTA is usually accomplished via two different steps. During the first phase, to which the injured tissues usually respond very fast, the therapy induces a strong anti-inflammatory and anti-edema effect, which leads to a consistent decrease in perceived pain. During the second phase, that is, later during the therapy sessions and in the weeks following the end of the treatment cycle, the damaged tissues regenerate in a stable, sound and permanent form.

Output Power in therapeutic module is around 75 to 90 watts at 50 ohm to 100 ohm in connection with Hand piece electrodes & Adhesive electrodes (Patches).

QUANTA has proved to be extremely effective in the treatment of the following pathologies: Muscle trauma (contraction / stretching / tearing), Tendonitis, synovitis, bursitis, fasciitis Epicondylitis, scapulohumeral periarthritis, Neck pain, back pain, lumbago, Bruises and sprains joint, Herniated discs, Arthrosis, Reduction of post-traumatic edema and / or post-operatively.

QUANTA mrt888

Molecular Resonance Generator

CUT

CUT 1
Pure cut

CUT 2
Coagulation cut, under water function

CUT 3
Coagulation cut, under water function

CUT 4
Pure cut without thermic diffusion
Continuous, <u>Timed Mode</u>

COAGULATION

COAG1
Soft coagulation

COAG2
Spray function

COAG3
Forced coagulation

COAG
Superficial coagulation
Continuous, <u>Timed Mode</u>

BIPOLAR

BIPOLAR1
Bipolar coagulation

BIPOLAR2
Bipolar cut

BIPOLAR 3
Bipolar Blend

DERMABRASION

Superficial dermabrasion
with radiofrequency, <u>Timed Mode</u>

TECHNICAL DATA

Input Voltage:	220-240 Vac 50/60 Hz
Output Frequency:	High frequency 4MHz/8MHz/12MHz…of Cell Safety Spectrum for all power values & functions.
Working:	temporary
Line protection:	2 fuse 3 A
Internal protection:	1 fuse 5 A - 3 fuse 3A
Input power:	350 VA max
Protection class:	High Isolation Class I type CF
Connections:	Connection for monopolar handpiece foot controlled
	Connection for monopolar handpiece hand controlled
	Connection for bipolar cable foot controlled
	Connection for monopolar handpiece foot controlled
	Connection for monopolar handpiece hand controlled
Safety circuit plate:	Independent microprocessor controlled double safety circuit plate with safety check & auto diagnosis features.

Output power on
LED illuminated display

CUT1	250W (+/-20%)
CUT2	250W (+/-20%)
CUT3	200W (+/-20%)
COAG1	250W (+/-20%)
COAG1	50W (+/-20%)
COAG3	150W (+/-20%)

Bipolar

Bipolar 1	0 – 90W (+/-20%)
Bipolar 2 (Cut)	0 – 120W (+/-20%)
Bipolar 3 (Blend)	0 – 140W (+/-20%)

Monopolar

CUT	200W (+/-20%)
FULGURATION	100W (+/-20%)

Monopolar

COAG	100W (+/-20%)
BLEAD	150W (+/-20%)

Output impedance and VPP:
monopolar

CUT1	125ohm / 375ohm	VPP 665 V225ohm
CUT2	225ohm / 1075ohm	VPP 980 V525ohm
CUT3	225ohm / 875ohm	VPP 1100 V575ohm
COAG1	125ohm / 375ohm	VPP 700 V225ohm
COAG2	875ohm / 4000ohm	VPP 1350 V3000ohm
COAG3	875ohm / 2175ohm	VPP 1570 V1275ohm

Bipolar

Bipolar 1	75 ohm/100 ohm	VPP 810 V175ohm
Bipolar 2	75 ohm/125 ohm	VPP 920 V175ohm
Bipolar 3	75 ohm/175 ohm	VPP 1450 V175ohm

Monopolar

CUT	375ohm / 875ohm	VPP 860V475ohm

Monopolar

COAG	125ohm / 475ohm	VPP 400V175ohm

Monopolar output circuit:	ground closed for H.F.
Bipolar output circuit:	floating
Monopolar commands:	Double footswitch (CUT/COAG)
Bipolar commands:	Single footswitch
Power programming:	different power for every function

Rules: CEI 62.11 CEI 62.5 CEI 62.50 IEC 601-1 IEC 601-1-2 IEC 601-2-2
EN60601-1 EN606012 EN60601-1-2 EN60601-2-2
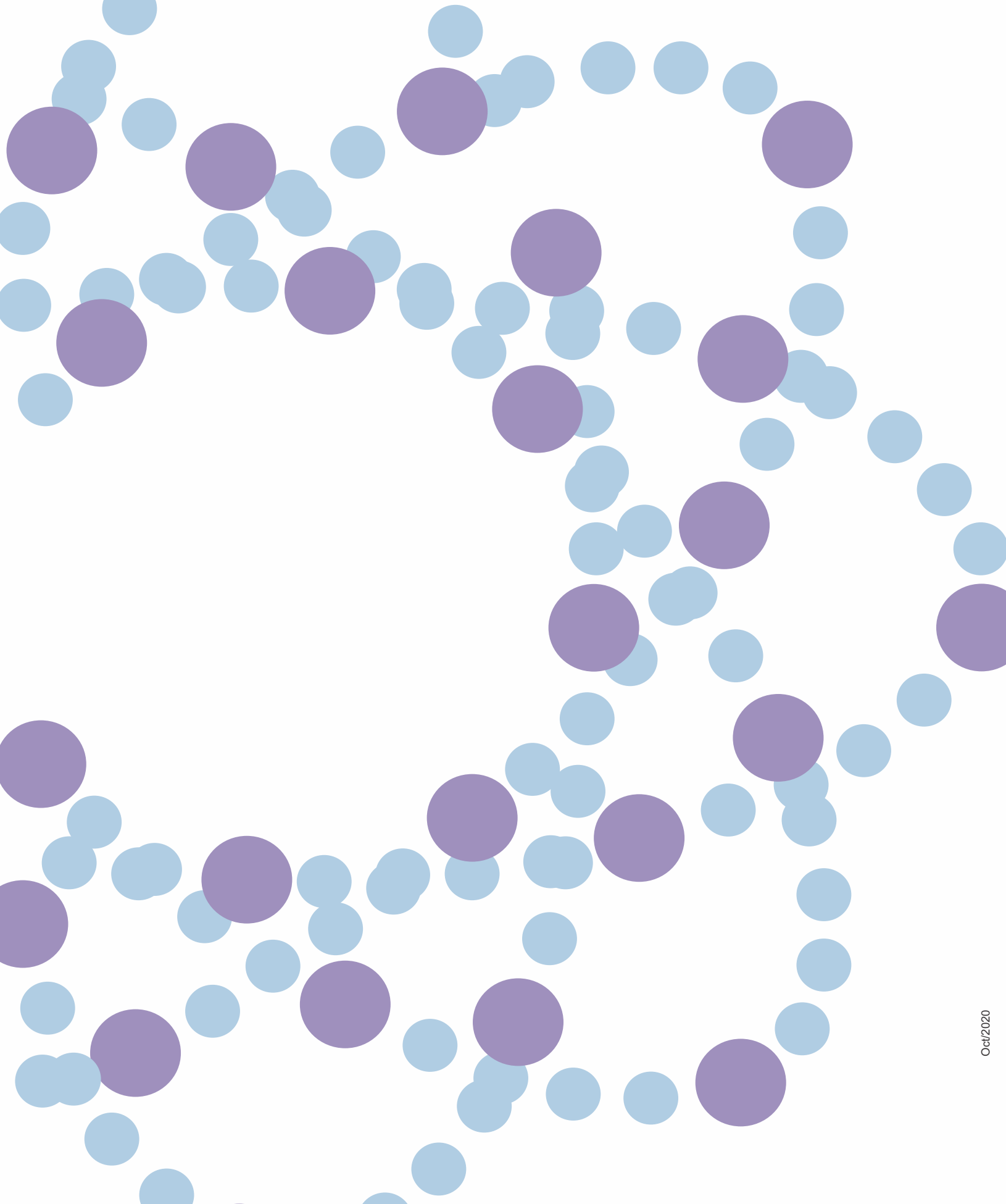
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Certified company and approved by QRO System quality
ISO Certificates 13485:2016 and 9001:2015

We prefer to communicate via email.