At Terumo Interventional Systems, we constantly **work to refine and perfect our products** so that interventionalists can do more. That is why we support great thinking that pushes back the boundaries of our field.

PUSHING BOUNDARIES

We are committed to **innovation that embraces intricacies and complexities**. Our exceptional tools and education programs empower physicians with the confidence they need to perform evermore challenging procedures and spark progress.

edSphere is a system manufactured by MedSphere" International and has CE-mark. MedSphere is not available for sale in all countries. This information is provided only in respect o markets where the product is approved or cleared. MedSphere is not FDA cleared in the US for sale. MedSphere is not approved in Canada. MedSphere" International is a trademark resistered in China. Please contact your Terring local sales representative for more information.

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EXPAND YOUR RFA OPTIONS WITH TERUMO



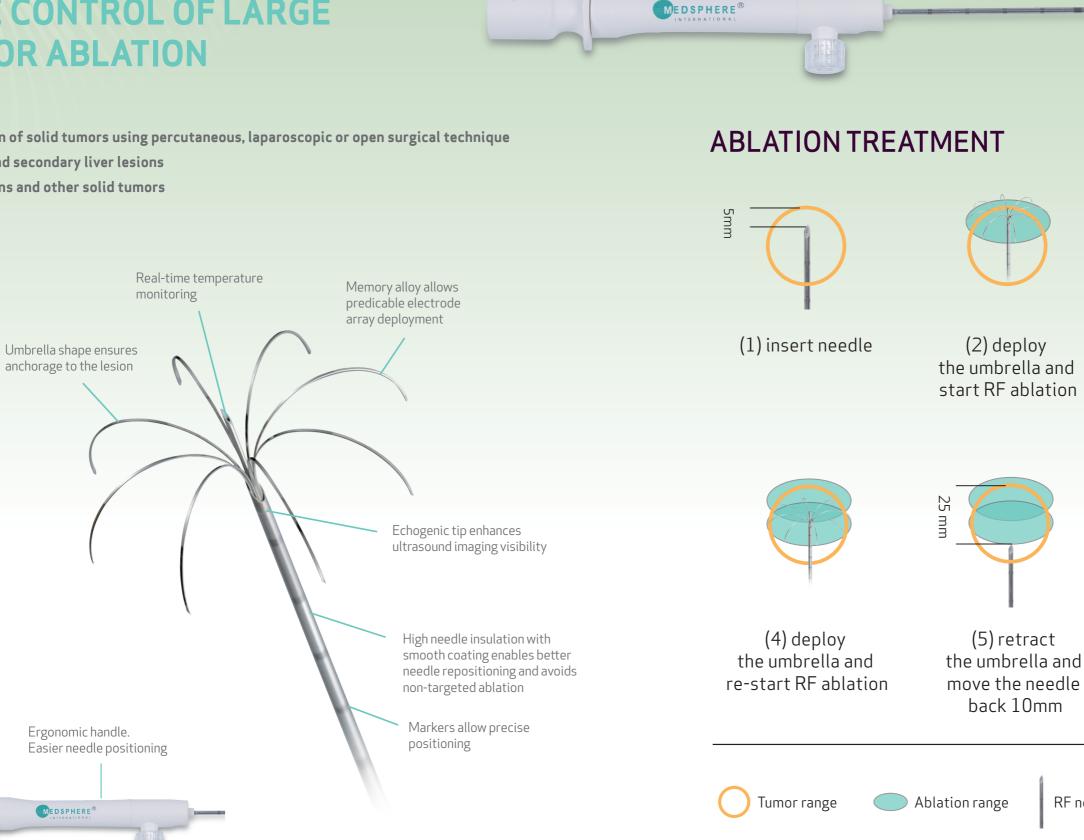




UMBRELLA ELECTRODE

TAKE CONTROL OF LARGE TUMOR ABLATION

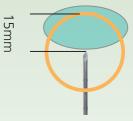
- RF ablation of solid tumors using percutaneous, laparoscopic or open surgical technique
- Primary and secondary liver lesions
- Lung lesions and other solid tumors





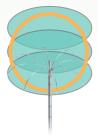






(3) retract the umbrella and move the needle back 10mm





(6) deploy the umbrella and re-start RF ablation

Deployed umbrella

RF needle

INTERNALLY COOLED ELECTRODE

LARGE ABLATION ZONE

• Internally cooled tip Reduced tissue adhesion and carbonization

- 19 G needle The thinnest RFA needle in the market
- Ergonomic handle Easier positioning

Ablation ----

• High needle insulation with smooth coating Enables better needle repositioning and avoids non-targeted ablation



Animal Test (pig, liver) 19G, 1 cm length of tip, 30 w, 24 s. - ablation area : 14 mm * 9 mm.



Thyroid benign nodule ablation.

RFG-150 RF GENERATOR



HIGH POWER GENERATOR

- Dual mode temperature and power control
- Wide power range for different lesion sizes
- Real-time temperature, power and impedance display
- Intelligent protection mechanism for enhanced safety





Picture from RENJI HOSPITAL

TECHNICAL DATA

RF Power Output	5 to 150 W (1 W increment adjustments)		
Operating Frequency	480 kHz		
Target Temperature	50 to 120°C (1°C increment adjustments)		
Measured Temperature	15 to 124°C (1°C increment adjustments)		
Impedance Range	10 to 500 Ω (Measurement range 0 to 990 Ω)		
Power Source	single-phase AC115-230V, 50/60 Hz, 280 VA power input		
Dimensions	14cm x 32cm x 43cm (H x W x D)		
Weight	7.8 KG		

Foot Pedal

ORDERING INFORMATION

HARDWARE AND ACCESSORIES

RFG-150	RF Generator
90-090101	Peristaltic pump
1030A	Grounding pad (dispersive electrode)
90-021404	Sterile electrode connecting cable
90-080102	Tubing Set
90-020701	Non Sterile electrode connecting cable
90-030107	Dispersive electrode connecting cable
90-010205	Power cord

UMBRELLA ELECTRODE



Code	Cannula Diameter	Umbrella diameter	Length	Number of tines	Thermocouple
21-843251_UPACK	15G	20mm	10cm	8	With
21-863251_UPACK	15G	20mm	15cm	8	With
21-883251_UPACK	15G	20mm	20cm	8	With
21-8A3251_UPACK	15G	20mm	25cm	8	With
21-843451_UPACK	15G	30mm	10cm	8	With
21-863451_UPACK	15G	30mm	15cm	8	With
21-883451_UPACK	15G	30mm	20cm	8	With
21-8A3451_UPACK	15G	30mm	25cm	8	With
21-843651_UPACK	15G	40mm	10cm	8	With
21-863651_UPACK	15G	40mm	15cm	8	With
21-883651_UPACK	15G	40mm	20cm	8	With
21-8A3651_UPACK	15G	40mm	25cm	8	With
21-843271_UPACK	17G	20mm	10cm	8	With
21-863271_UPACK	17G	20mm	15cm	8	With
21-883271_UPACK	17G	20mm	20cm	8	With
21-843471_UPACK	17G	30mm	10cm	8	With
21-863471_UPACK	17G	30mm	15cm	8	With
21-883471_UPACK	17G	30mm	20cm	8	With
21-843671_UPACK	17G	40mm	10cm	8	With
21-863671_UPACK	17G	40mm	15cm	8	With
21-883671_UPACK	17G	40mm	20cm	8	With

INTERNALLY COOLED ELECTRODE



Code	Needle diameter	Tip Exposure	Length
L-342_CPACK	16G	10mm	15cm
L-442_CPACK	16G	10mm	25cm
L-343_CPACK	16G	15mm	15cm
L-344_CPACK	16G	20mm	15cm
L-444_CPACK	16G	20mm	25cm
L-445_CPACK	16G	30mm	25cm
L-332_CPACK	17G	10mm	15cm
L-333_CPACK	17G	15mm	15cm
L-334_CPACK	17G	20mm	15cm
10-181571_CPACK	17G	30mm	20cm
L-121_CPACK	18G	5mm	7cm
L-221_CPACK	18G	5mm	10cm
L-122_CPACK	18G	10mm	7cm
L-222_CPACK	18G	10mm	10cm
L-111_CPACK	19G	5mm	7cm

**All kits include 2 grounding pads, 1 sterile cable and 1 tubing set.

* All kits include 2 grounding pads and 1 sterile cable.

