



TRANBERG®
Thermal Therapy System



The new adaptive laser ablation platform
- For MR guided interventions



TRANBERG® | Thermal Therapy System

The TRANBERG® | Thermal Therapy System has been developed for image guided high precision thermal therapy procedures within interventional oncology and is 510(k) cleared for soft tissue ablation. Laser light and optical fiber applicators allow for use with MR-guidance and MR-thermometry, without producing disturbing artifacts.

For CT/US-guided procedures the TRANBERG® | Thermal Therapy System is equipped with an integrated comprehensive tissue temperature feedback system for interventions.

The system includes a computer controlled mobile laser unit with touch screen graphical user interface, non-cooled laser applicators and indication specific accessories.

- Light weight 18 kg compact mobile laser unit
- Two integrated 19 inch touch screens with graphical user interface
- Multiple options to control treatment power and time
- Storage of procedure data and patient information
- Robust non-cooled laser applicators
- Radial and diffusing fiber technology for optimized heat deposition in tissue
- 3 and 12 m MR-compatible 15 Gauge laser applicator



The TRANBERG® | Thermal Therapy System is intended for use by medical professionals only.

TRANBERG® | Laser applicators and accessories

The applicator portfolio includes 3m and 12m non-cooled 15 Gauge laser applicators allowing for adaptation to almost any type of image guidance, including MR. With CLS's unique diffusing fiber technology, heat deposition in tissue is greatly improved and the need for external cooling has been made obsolete. This helps optimizing workflow and saves time during ablation procedures.

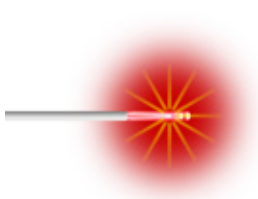
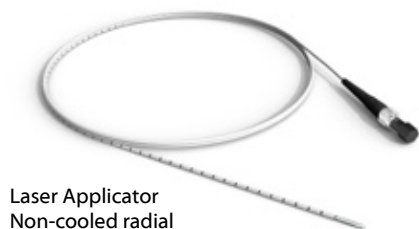
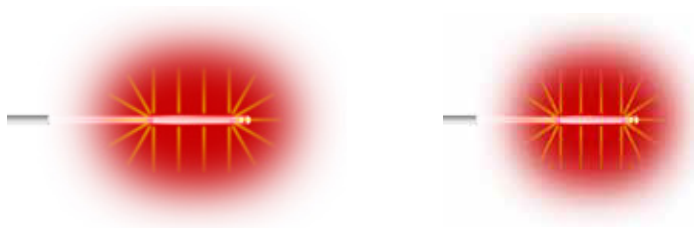
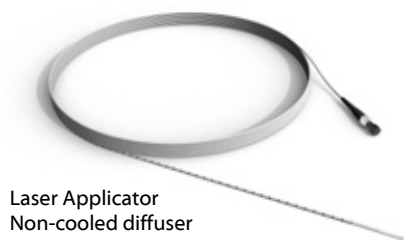
MRI-guided laser ablation offers advantages now and in the future

- No dose limitation
- High specificity in tumor detection and capability to confirm ablation
- Optional 2D/3D real time thermal mapping allows for expanded ablation monitoring



- Applicators and accessories compatible w MR 3T
- 15 gauge 3m and 12m laser applicators
- Applicator length allows for use in any MR-suite
- Applicators tailored for both smaller spherical ablations and larger ablations
- Robust non-cooled laser applicators can shorten procedure time during ablation

Applicator type and Use



Pull back technique can be used to create and shape larger ablation zones.

Reference ablation sizes

Exposure time	Diffuser 25 mm 20W	Diffuser 25 mm 15W	Diffuser 25 mm 10W	Diffuser 25 mm 5W	Diffuser 15 mm 15W	Diffuser 15 mm 10W	Diffuser 15 mm 5W	Radial 8W
1 min	26x14				22x14	15x9		12x12
2 min	33x19	30x16	23x13		28x18	22x14		19x16
3 min	35x23	33x20	27x16	18x10	30x21	26x17	15x11	
4 min		36x22	31x19	20x13	34x25	28x20	18x13	

Ex vivo, bovine myocardium at 37°C. 1064nm, CW. Size in mm, HxW. N≥10, SD≤ 2.1mm

Order information

Product Name	Diameter	Length	Description	Specification	Markets	Part Number
Mobile Laser Unit	-	-	-	-	-	1001-01
Laser Applicator Non-cooled	1.7mm / 15G	1mm; 3m	Radial	-	-	4012-01
Laser Applicator Non-cooled	1.7mm / 15G	1mm; 12m	Radial	-	-	4012-05
Laser Applicator Non-cooled	1.7mm / 15G	15mm; 3m	Diffuser	-	-	4017-01
Laser Applicator Non-cooled	1.7mm / 15G	15mm; 12m	Diffuser	-	-	4017-02
Laser Applicator Non-cooled	1.7mm / 15G	25mm; 3m	Diffuser	-	-	4017-03
Laser Applicator Non-cooled	1.7mm / 15G	25mm; 12m	Diffuser	-	-	4017-04
MR Introducer	2.1mm / 14G	230mm	-	-	-	4013-04
MR Cannula	2.1mm / 14G	230mm	-	-	-	4013-05
MR Stylet	1.8mm / 15G	230mm	-	-	-	4013-06
MR Adapter	-	-	Transrectal	-	-	4013-07
Standard Introducer	2.6mm / 12G	100mm	-	-	-	4013-01
Standard Introducer	2.6mm / 12G	200mm	-	-	-	4013-02
Standard Introducer	2.6mm / 12G	350mm	-	-	-	4013-03
Tissue Temp Introducer	3.0mm / 11G	100mm	Blue	Sensors: 1	not for US	4016-01
Tissue Temp Introducer	3.0mm / 11G	200mm	Blue	Sensors: 1	not for US	4016-02
Tissue Temp Introducer	3.0mm / 11G	350mm	Blue	Sensors: 1	not for US	4016-03
Tissue Temp Probe	1.3mm / 17G	100mm	Blue	Sensors: 1	-	3101-01
Tissue Temp Probe	1.3mm / 17G	100mm	White	Sensors: 1	-	3101-02
Tissue Temp Probe	1.3mm / 17G	100mm	Green	Sensors: 4	-	3201-01
Tissue Temp Probe	1.3mm / 17G	200mm	Blue	Sensors: 1	-	3102-01
Tissue Temp Probe	1.3mm / 17G	200mm	White	Sensors: 1	-	3102-02
Tissue Temp Probe	1.3mm / 17G	200mm	Green	Sensors: 4	-	3202-01
Tissue Temp Probe	1.3mm / 17G	350mm	Blue	Sensors: 1	-	3103-01
Tissue Temp Probe	1.3mm / 17G	350mm	White	Sensors: 1	-	3103-02
Tissue Temp Probe	1.3mm / 17G	350mm	Green	Sensors: 4	-	3203-01

Key features

- Medical grade Class 4 laser, wavelength 1064 nm, 1– 25 W output
- Manual mode or feedback controlled laser power
- 3-12 m non-cooled radial and diffusing laser applicators
- MR compatible instruments
- Small and user friendly system with touch screen control
- Compact footprint, 18 Kg
- Minimal set up time
- FDA cleared and CE marked device

Clinical Laserthermia Systems Americas Inc

5 Musick | Irvine | CA 92618
 Office: 949-900-6833
 Email: contact@clinicallaser.com
www.clinicallaser.com

Clinical Laserthermia Systems AB

Scheelevägen 2 | 223 81 Lund, Sweden | Phone: +46 (0)46-15 21 00
 E-mail: info@clinicallaser.se
www.clinicallaser.com

