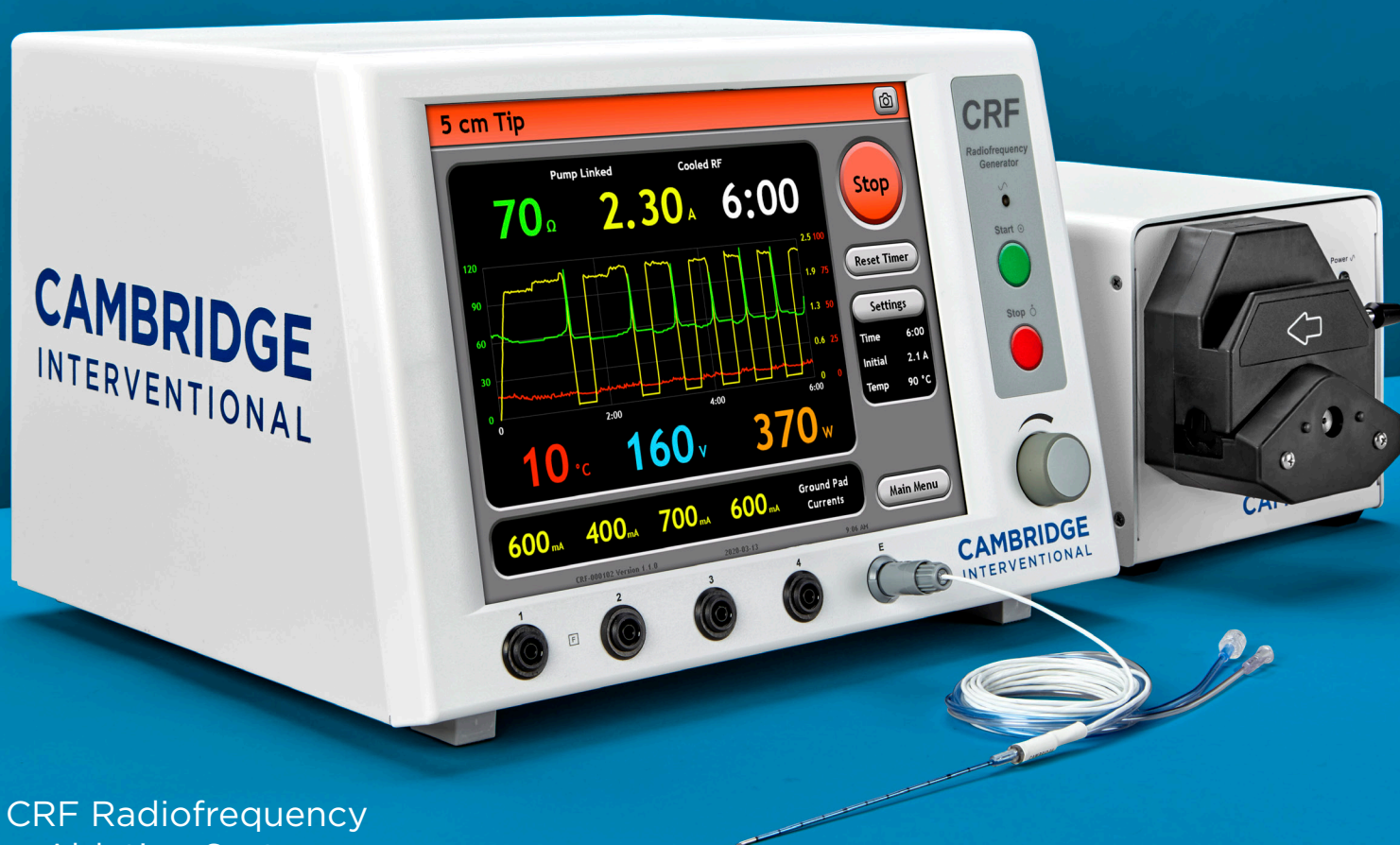


# CRF

## RADIOFREQUENCY ABLATION SYSTEM

Optimized to achieve large spherical ablation zones rapidly and reproducibly using a single cost-effective electrode.<sup>1</sup>



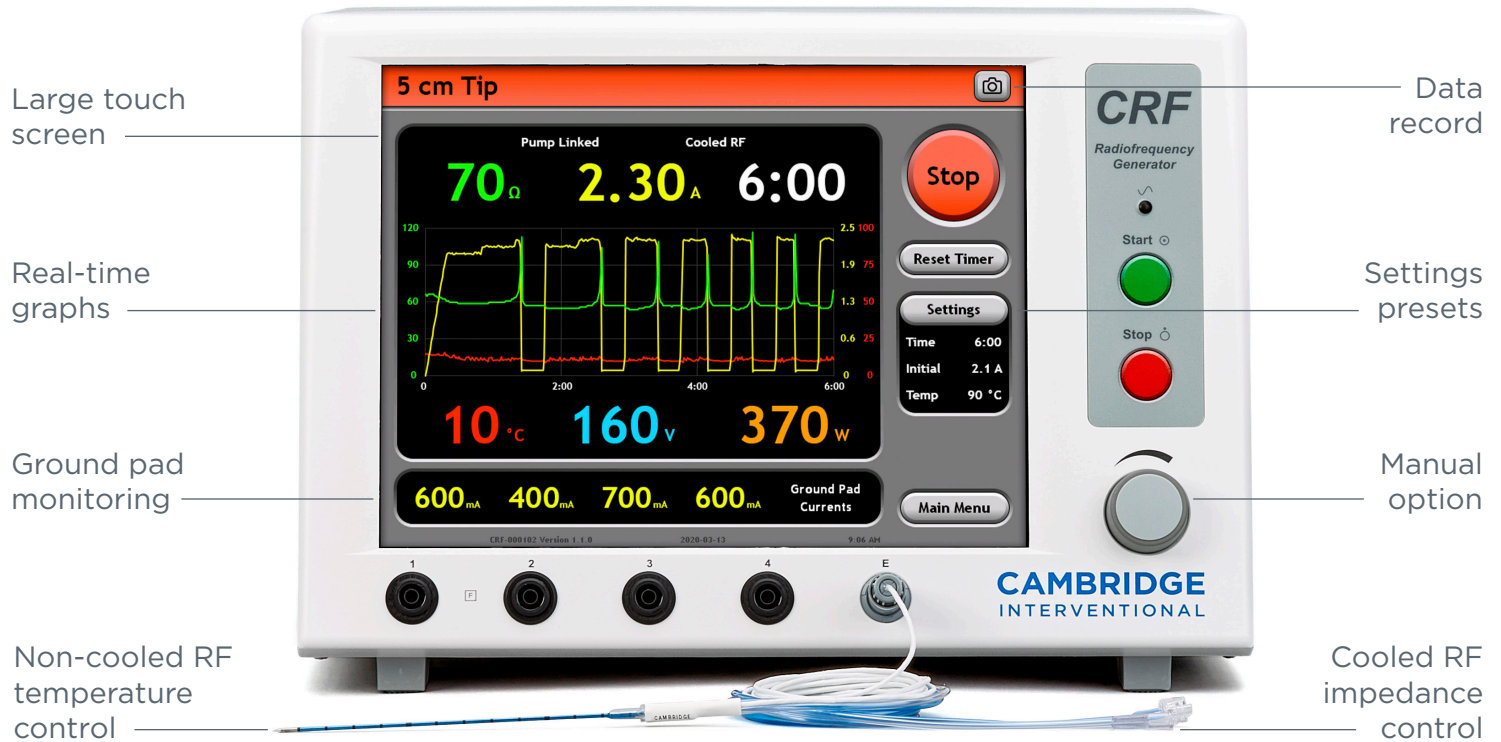
CRF Radiofrequency  
Ablation System

[cambint.com](http://cambint.com)

**CAMBRIDGE**  
INTERVENTIONAL

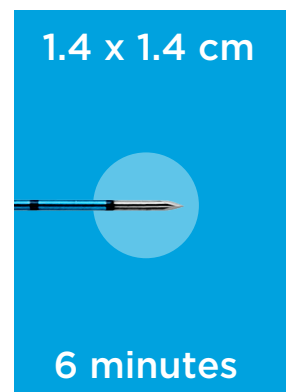
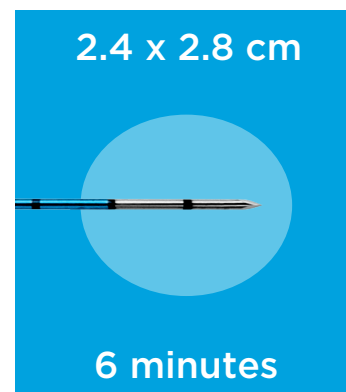
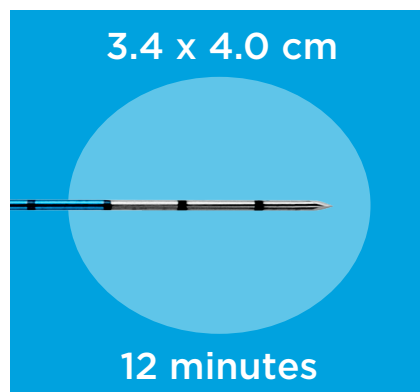
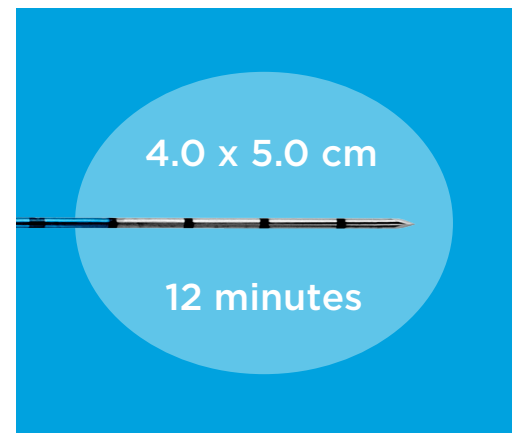
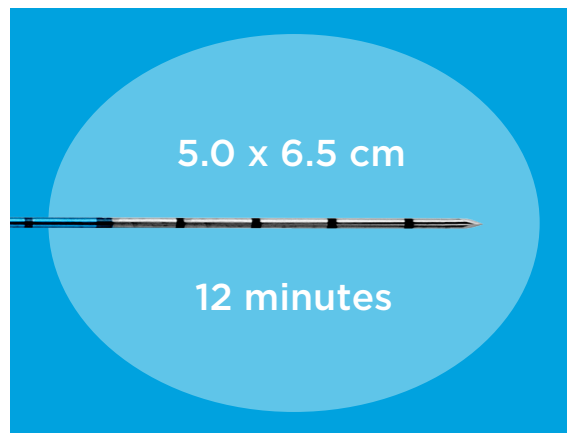
# CRF GENERATOR

## POWERFUL AND EASY TO USE



### LARGE RAPID SPHERICAL REPRODUCIBLE ABLATION VOLUMES<sup>1,2</sup>

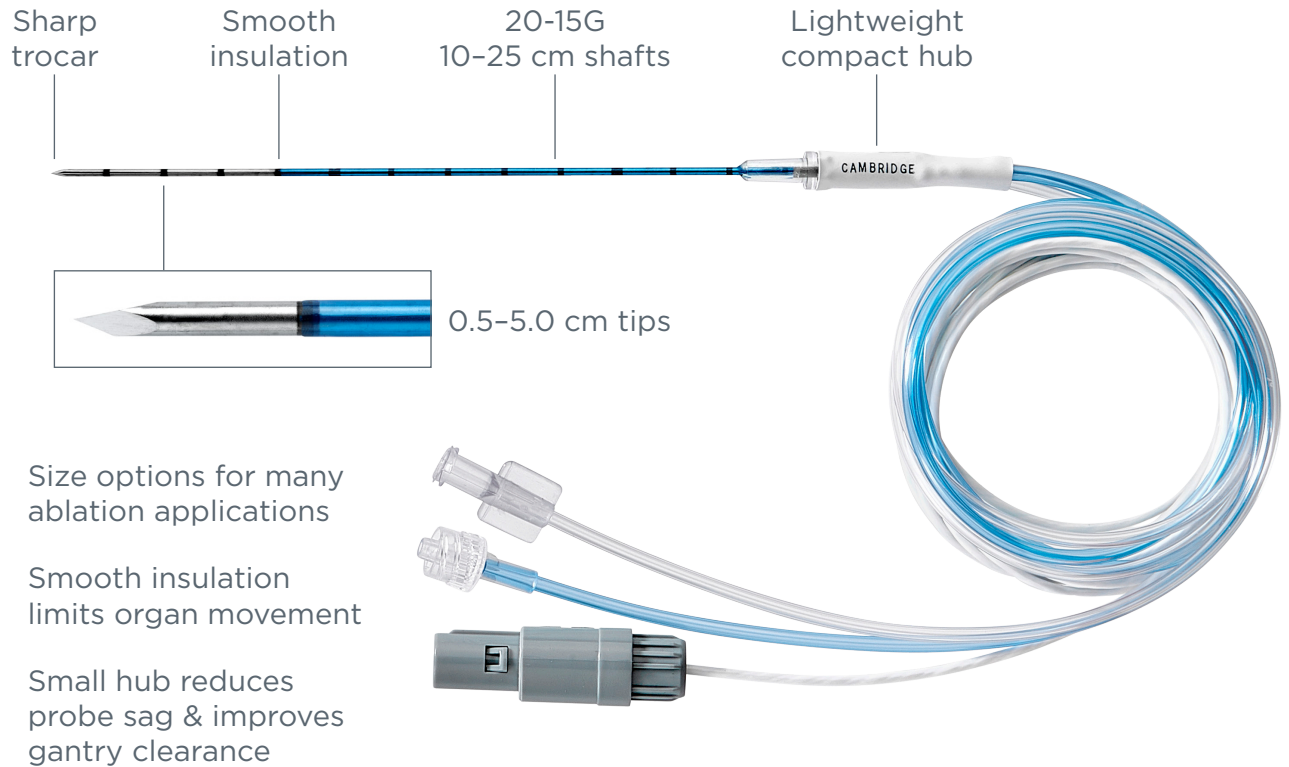
1. Ben-David E, Nissenbaum I, Gurevich S, Cosman ER Jr & Goldberg SN. Optimization and characterization of a novel internally-cooled radiofrequency ablation system with optimized pulsing algorithm in an ex-vivo bovine liver. International Journal of Hyperthermia 2019; 36(2):81-88.



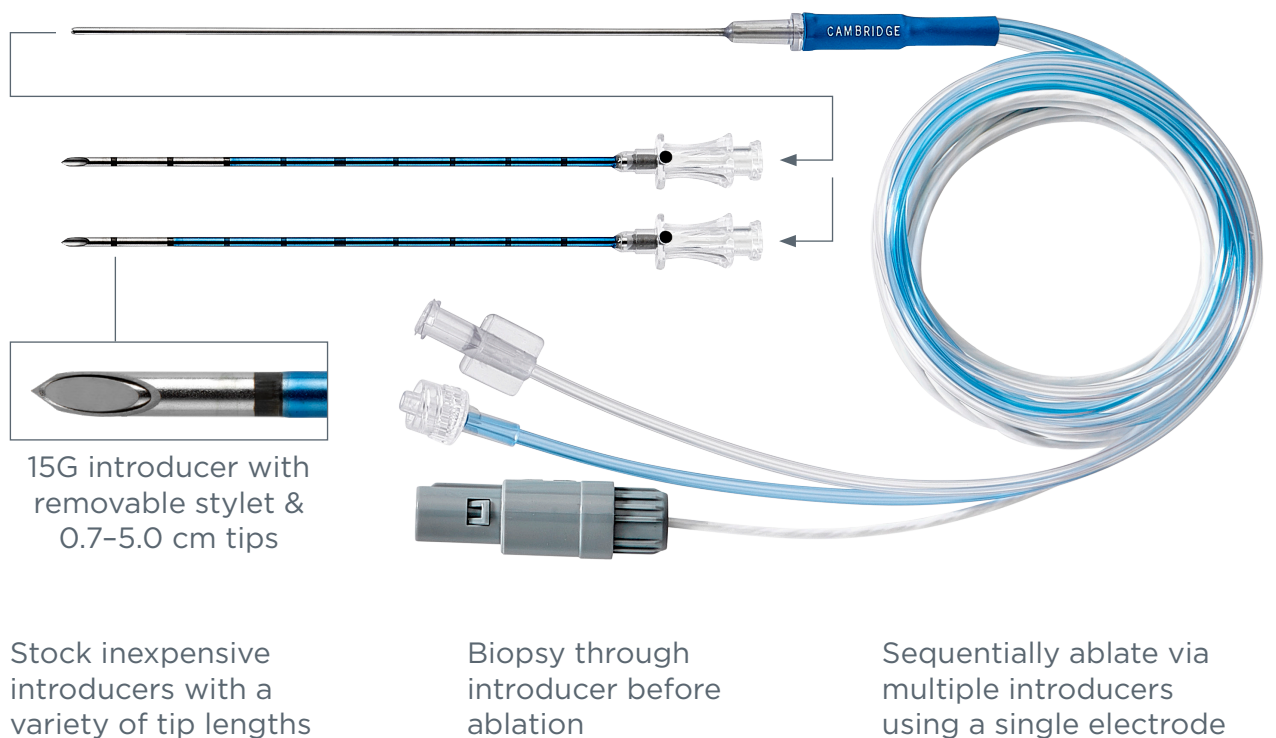
# CRF ELECTRODES

## VERSATILE AND COST EFFECTIVE

### One-Piece Electrodes

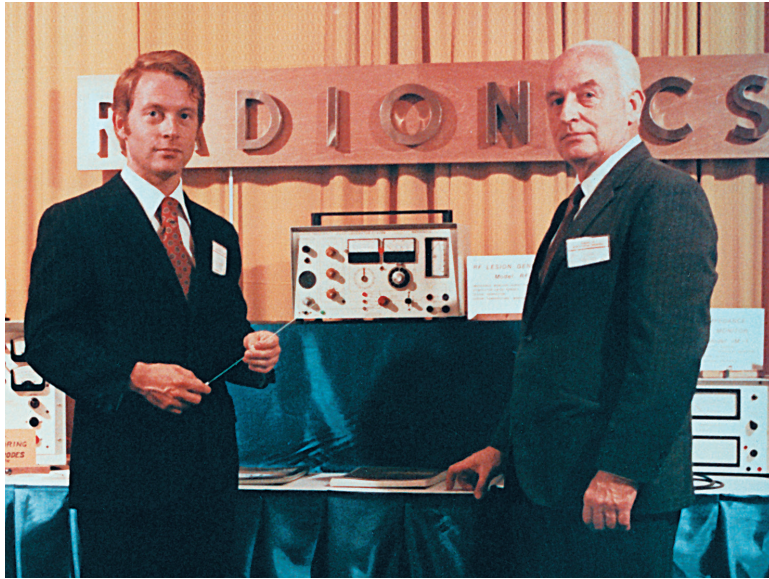


### Two-Piece Electrodes





# RFA INNOVATION SINCE 1952



1971 AANS: Bernard J Cosman, MS (MIT) founded Radionics® and was the first to market an RF generator in 1952. MIT Professor Eric R Cosman, Sr, PhD, developed the Cool-tip® RFA system for tumor ablation in the 1990's.<sup>7</sup>



2007 SIS: Prof. Cosman founded Cosman Medical<sup>7</sup> in 2004 and invented myriad RFA devices for neurosurgery and pain. His son, Eric R Cosman, Jr, PhD (MIT) founded Cambridge Interventional and developed the CRF system.

## INTENDED USE & REFERENCES

The CRF radiofrequency ablation system is intended for use in percutaneous, laparoscopic and intraoperative coagulation and ablation of tissue. Read the Instructions for Use before use. Radiofrequency ablation is a well-established and reproducible method for performing percutaneous, minimally invasive, thermal ablation of neoplastic disease.<sup>1</sup> Below are selected literature current at the time of this publication.

1. Ben-David E, Nissenbaum I, Gurevich S, Cosman ER Jr & Goldberg SN. Optimization and characterization of a novel internally-cooled radiofrequency ablation system with optimized pulsing algorithm in an ex-vivo bovine liver. International Journal of Hyperthermia 2019; 36(2):81-88.
2. Shown are average ellipsoidal ablation zone sizes generated using the CRF system in bovine liver ex vivo at nominal initial temperature 20°C. Ablation size and shape may differ clinically and lead to incomplete treatment or unintended damage to nearby structures.
3. Gillams AR, Lees WR. Radiofrequency ablation of colorectal liver metastases in 167 patients. Eur Radiol. 2004 Dec;14(12):2261-7.
4. Goldberg S, Gazelle G. Thermal ablation therapy for focal malignancy: A unified approach to the underlying principles, techniques, and diagnostic imaging guidance. AJR. 2000; 174(2): 323-31.
5. Peyser A, Applbaum Y, Khoury A, Liebergall M, Atesok K. Osteoid osteoma: CT-guided radiofrequency ablation using a water-cooled probe. Ann Surg Oncol. 2007 Feb;14(2):591-6.
6. Solbiati L, Livraghi T, Goldberg SN, Ierace T, Meloni F, Dellanoce M, Cova L, Halpern EF, Gazelle GS. Percutaneous radiofrequency ablation of hepatic metastases from colorectal cancer: long-term results in 117 patients. Radiology. 2001 Oct;221(1):159-66.
7. Radionics® is a trademark of Integra. Cool-tip® is a trademark of Covidien AG. Cosman Medical LLC is owned by Boston Scientific. No affiliation with, or endorsement by, these companies is implied.



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