

DEDICATED GENERATOR FOR A COMPLETE AND CONFIDENT ENDOBILIARY ABLATION








**STARMED**

**ELRA™**

ENDOLUMINAL RADIOFREQUENCY  
ABLATION ELECTRODE

**VIVA** combo  
RF Generator

## System Advantage: ELRA™ + VIVA combo RF Generator

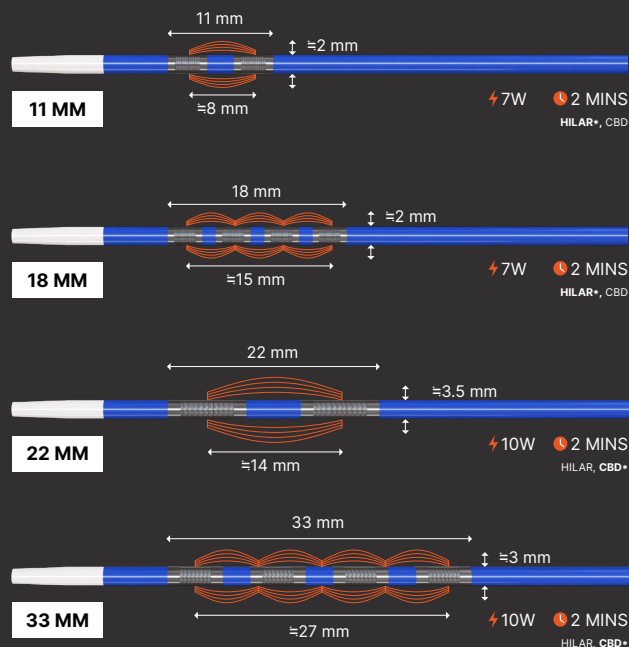
-  **Temperature Control**  
Prevents overheating & duct injury
-  **Real-Time Impedance Monitoring**  
Confirms complete ablation
-  **Automatic Shutoff**  
Upon improper contact or completion of ablation
-  **Slim 7 Fr Tapered Tip**  
Navigates complex anatomy with ease
-  **Portfolio of 4 Sizes**  
11, 18, 22, and 33 mm exposure lengths for a tailored treatment

### ABLATION IMAGE (BOVINE LIVER)



Setting Condition: 75°C | 10 Watts | 2 Min

## ELRA Ablation Zone



DISCLAIMER: Bovine ex-vivo ablation results may vary from in-vivo test or clinical results due to different conditions. Animal Data is not necessarily indicative of human clinical outcomes.

## Ordering Information

Percutaneous Approach			
Item Code	Length (cm)	Exposure Length (mm)	Diameter
7-2B11L	40	11	7Fr (2.31mm)
7-4B18L		18	
7-2B22L		22	
7-4B33L		33	

### IMPORTANT SAFETY INFORMATION

#### INDICATION

The VIVA combo RF System is intended for use in percutaneous and intraoperative coagulation and ablation of tissue.

The ELRA Electrode is a radiofrequency (RF) catheter which provides bipolar energy to perform partial or complete ablation of tissue in the pancreatic and biliary tracts.

#### CONTRAINDICATIONS

There is a risk that error may result due to the radiofrequency current on patients who have pacemakers and other active implants. Do not use the radiofrequency lesion generator and electrode on these patients.

**POTENTIAL COMPLICATIONS:** burning by overheating of surgical unit, dangers from inexperienced operator's use, side effects or cross infection from reuse, weakness of liver functions, delayed bleeding in the operated body parts, recurrence of cancer, symptoms after RFA treatment include, perforation, respiratory depression or arrest, (abdominal) pain, fever, nausea, headache, right shoulder joint pain and chest discomfort might occur. The potential complications are not limited to the above, other complications may occur by using endoscope.

#### REFERENCES

1. A new intraductal radiofrequency ablation device for inoperable biliopancreatic tumors complicated by obstructive jaundice: the IGNITE-1 study by Wim Laleman et al [Endoscopy. 2017 Oct;49(10):977-982]
2. Efficacy of endobiliary radiofrequency ablation for malignant distal biliary obstruction: multicenter experience of temperature controlled radiofrequency ablation by Euijoo Kim et al

### REFERENCES CONT.

3. Novel temperature-controlled RFA probe for treatment of blocked metal biliary stents in patients with pancreaticobiliary cancers: initial experience by Nayar Manuk et al [Endosc Int Open. 2018 May;6(5):E513-E517]
4. Temperature controlled intraductal radiofrequency ablation for hilar cholangiocarcinoma by Dong Uk Kim [2015 DOW Abstract]
5. Safety and effectiveness of endobiliary radiofrequency ablation according to the different power and target temperature in a swine model by Jae Hee Cho et al Li Gastroenterol Hepatol. 2017 Feb;32(2):521-526]

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