

# **IRREVERSIBLE** ELECTROPORATION(IRE)

Therapy System









The system is indicated for the surgical ablation of soft tissue.

## **IRE GENERATOR**

Irreversible electroporation (IRE) is a new tissue ablation technique in which micro to millisecond electrical pulses are delivered to undesirable tissue to produce cell necrosis through irreversible cell membrane permeabilization.

#### The IRE Generator



#### IRE & RF dual energy platform

Switching to RF mode to do needle track ablation with same probes after IRE procedure, effectively eliminates the potential implant metastasis and reduces the risk of bleeding.

#### Selective Targeting

The IRE system selectively targets the tumor cells and spare surrounding blood vessels, nerves, and other critical structures.

#### Non-thermal ablation

The IRE system does not depend on heat to destroy tumor cells. Instead, it utilizes electrical pulses to induce irreversible electroporation, then leads to apoptosis. It has no heat sink effect, also no thermal damage to surrounding tissues.

### Induction of apoptosis

Irreversibly damaged cells may undergo apoptosis followed by necrosis with time after electroporation. 1

#### Activate immune system

IRE could be regarded as a potential immunomodulatory treatment and might induce extensive changes of immune cells or indexes after ablation.<sup>2</sup>

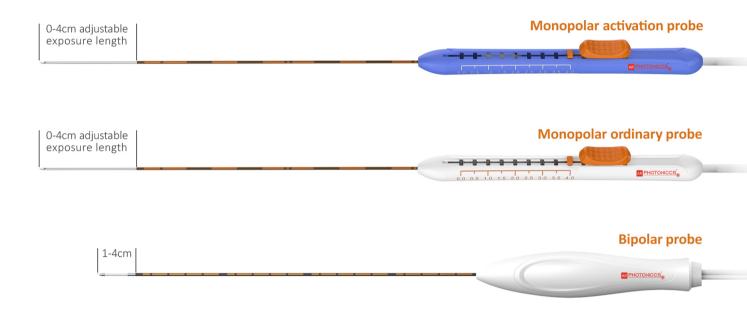
#### **Build-in ECG synchronization module**

Protect against arrhythmia.

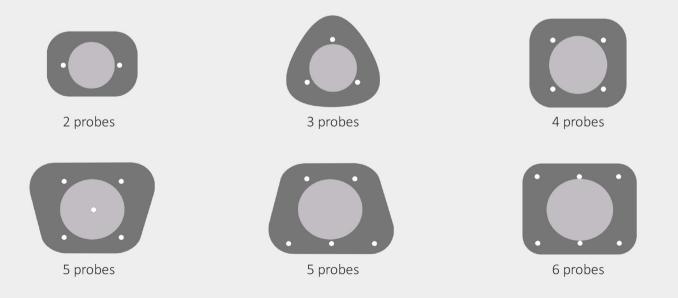
# **IRE PROBES**

The Irreversible Electroporation(IRE) Probe is used in conjunction with IRE Generator indicated for the surgical ablation of soft tissue, which includes two monopolar probes and one bipolar probe.

#### The IRE Probes



#### **Probes Placement**



#### **IRE Generator**

Specification Description

An IRE generator, with 6 probe outputs, max. output voltage 3000v, rated output current 50A.

#### **Model Name**

Pulse - IRE

#### **IRE Probes**

Specification	Needle gauge	Needle length	Working length	Probe type
	19 G	25 cm	0-40 mm adjustable	Monopolar ordinary probe
	19 G	18 cm	0-40 mm adjustable	Monopolar ordinary probe
	19 G	15 cm	0-40 mm adjustable	Monopolar ordinary probe
	19 G	13 cm	0-40 mm adjustable	Monopolar ordinary probe
	19 G	25 cm	0-40 mm adjustable	Monopolar activation probe
	19 G	18 cm	0-40 mm adjustable	Monopolar activation probe
	19 G	15 cm	0-40 mm adjustable	Monopolar activation probe
	19 G	13 cm	0-40 mm adjustable	Monopolar activation probe
	15 G	25 cm	40 mm	Bipolar probe
	15 G	25 cm	30 mm	Bipolar probe
	15 G	25 cm	20 mm	Bipolar probe
	15 G	25 cm	10 mm	Bipolar probe
	15 G	15 cm	40 mm	Bipolar probe
	15 G	15 cm	30 mm	Bipolar probe
	15 G	15 cm	20 mm	Bipolar probe
	15 G	15 cm	10 mm	Bipolar probe
	18 G	25 cm	40 mm	Bipolar probe
	18 G	25 cm	30 mm	Bipolar probe
	18 G	25 cm	20 mm	Bipolar probe
	18 G	25 cm	10 mm	Bipolar probe
	18 G	15 cm	40 mm	Bipolar probe
	18 G	15 cm	30 mm	Bipolar probe
	18 G	15 cm	20 mm	Bipolar probe
	18 G	15 cm	10 mm	Bipolar probe

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