



Family of **MaxBlate™** Microwave Ablation Systems  
A New Portable Generation of  
**XphereTip™ - ThyTip™ - SureTip™** Antennas



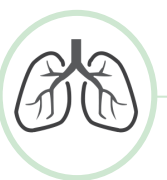
**Liver**



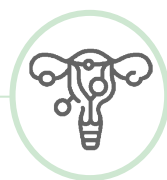
**Thyroids**



**Kidneys**



**Lungs**



**Uterus**

# MaxBlate™ Microwave Ablation Generators

## About Mermaid Medical Group

Mermaid Medical Group is a privately owned company founded in 2007. With our Nordic roots and headquarters in Denmark, we value cooperation, helpfulness, and openness.

We develop, manufacture, and distribute medical devices to hospitals and end users across Europe, the United States and Asia.

Our primary focus is solutions for vascular diseases as well as other devices used in interventional radiology.

We strive to be the preferred partner for manufacturers as well as hospitals and healthcare professionals so that together we can help even more patients.

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30 years with over  
500.000 successful cases



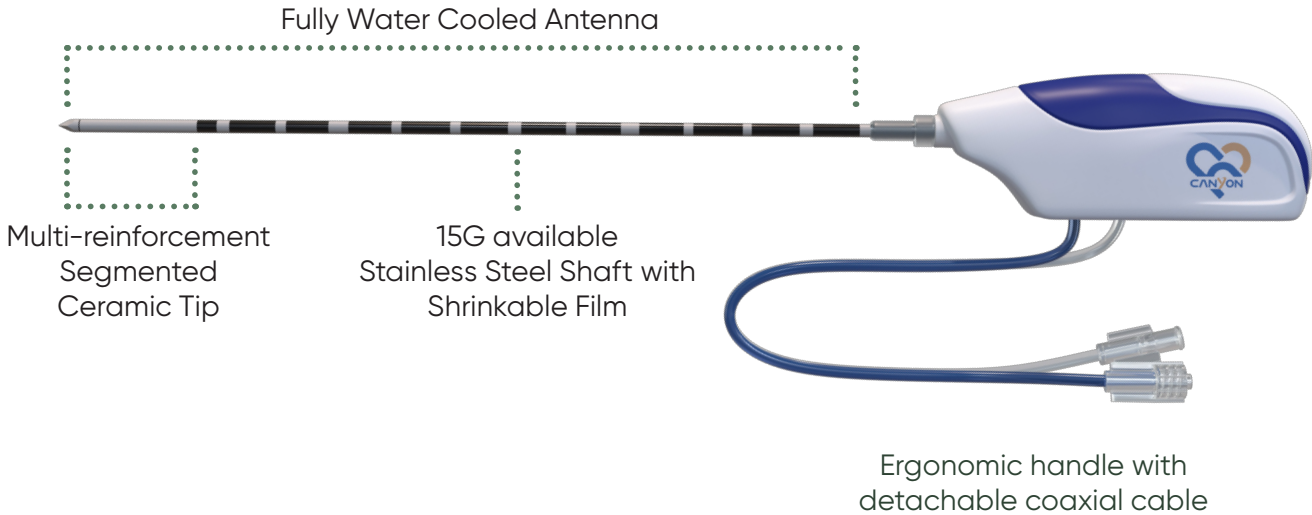
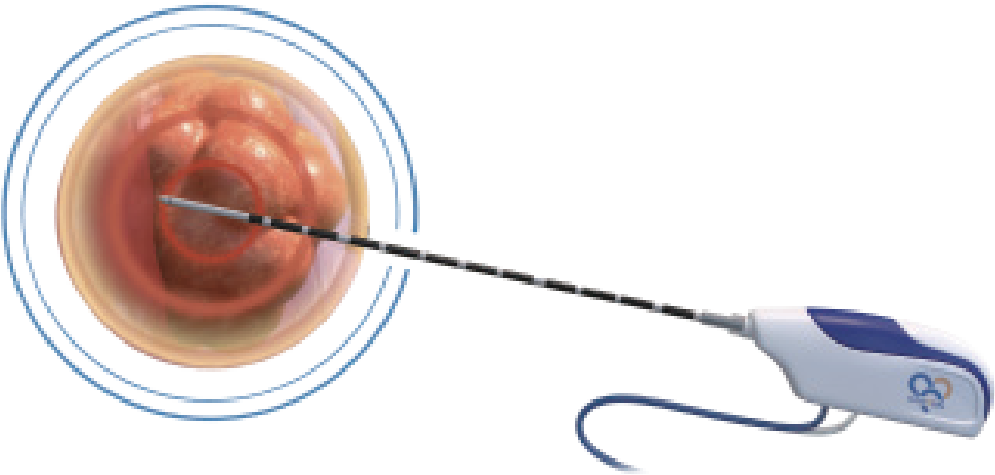
## Features:

- Powered by proprietary MaxCore™ inside with ACLC technology and PID algorithm to provide precise and stable microwave output.
- IEC 60601-1 compliant for enhanced electrical safety.
- Portable and compact design for convenient transportation, installation, operation and service maintenance.
- Responsive touchscreen interface with adjustable power and time settings.
- Cooling and real-time temperature monitoring as well as other incorporated multiple built-in safety controls.
- Continuous and pulsed modes are available for different clinical options.

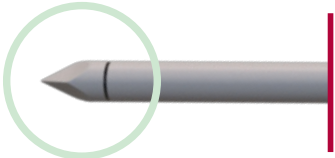


Precise – Efficient – Stable

Spherical – Less invasive



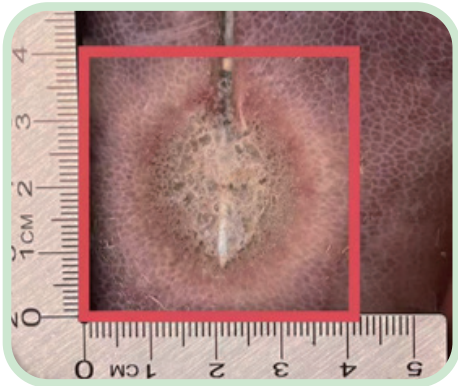
Trocar tip with reinforced ceramic window allows for less friction and improved mechanical strength



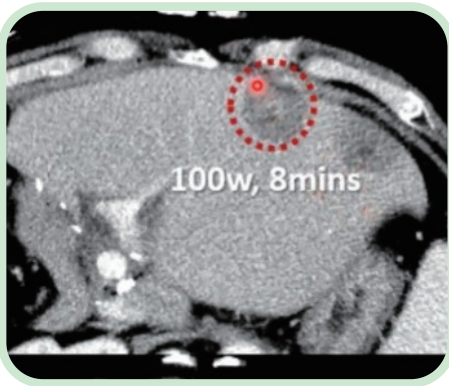
Triangular Design

Features:

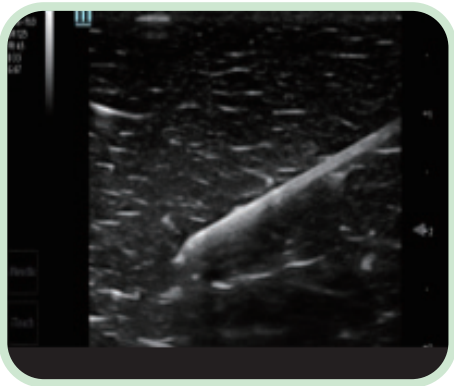
- Patented radiation field control technology as well as full-antenna water cooling technology brings a spherical ablation zone.
- Sharp and multi-reinforcement ceramic tip, as well as high-performance stainless-steel shaft, bring an excellent benefit of stiffness and strength in puncture and operation.
- The comparatively slim 15G option offers a less invasive approach.
- Excellent echogenicity and tip visibility for accurate guidance to the target area under ultrasound.
- Special antenna shaft surface treatment enables smooth puncture movement, and effectively avoids tissue adhesion.
- Ergonomic handle with detachable cable improves operational convenience and maneuverability.



Ex Vivo Testing



<sup>1</sup>In Vivo Results



Echogenicity

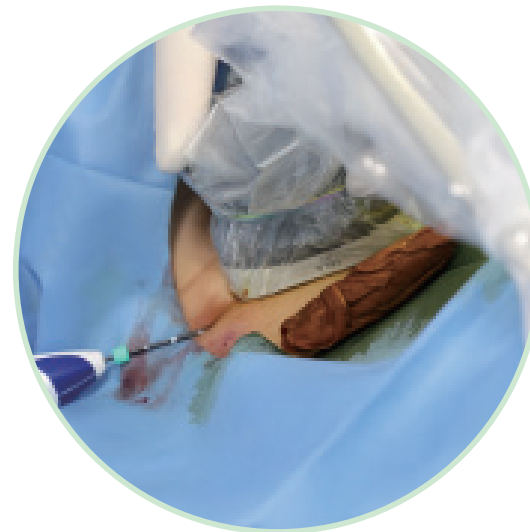
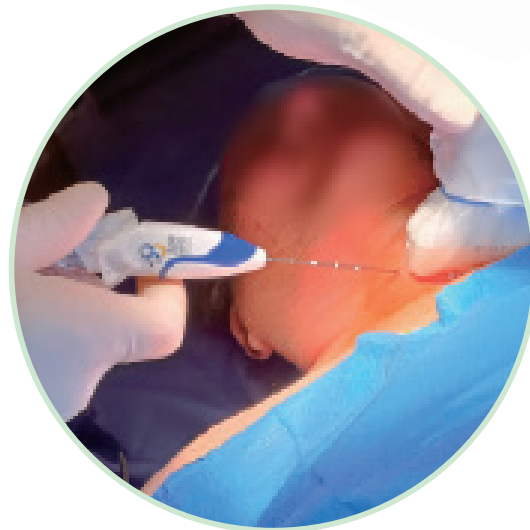
<sup>1</sup> 71-year-old male with cholangiocarcinoma, status post right hepatectomy with recurrence, case done by MaxBlate™ Microwave Ablation Generator, XsphereTip™ 15G antenna.

## ThyTip™ Antennas

Efficient & Controllable



Ergonomic handle with detachable coaxial cable

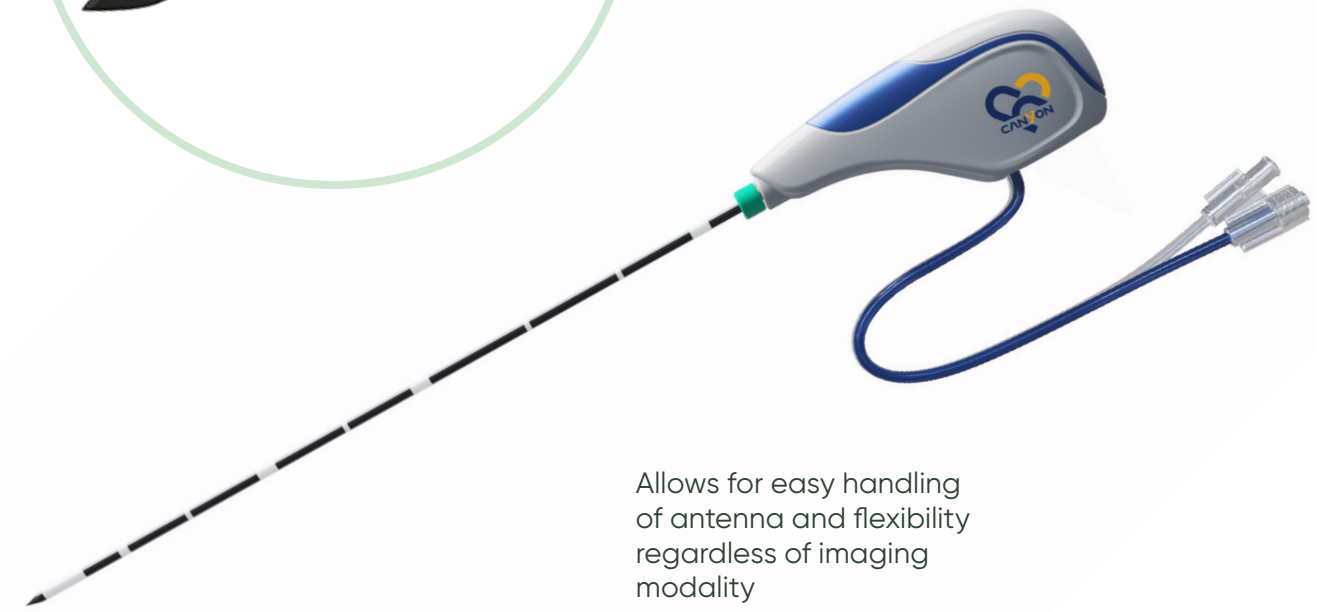


### Features:

- 3mm active tip optimized for the ablation of superficial and small and superficial thyroid nodules with a uniform and well controlled result.
- Excellent echogenicity and tip visibility for accurate guidance to the target area under ultrasound.
- Internally water cooled and designed for the moving-shot technique moving shot to avoid tissue overheating.
- As thin as 19G for a less invasive approach.

## SureTip™ Antennas

The sharp needle tip and slim diameter make the placement easier due to less friction

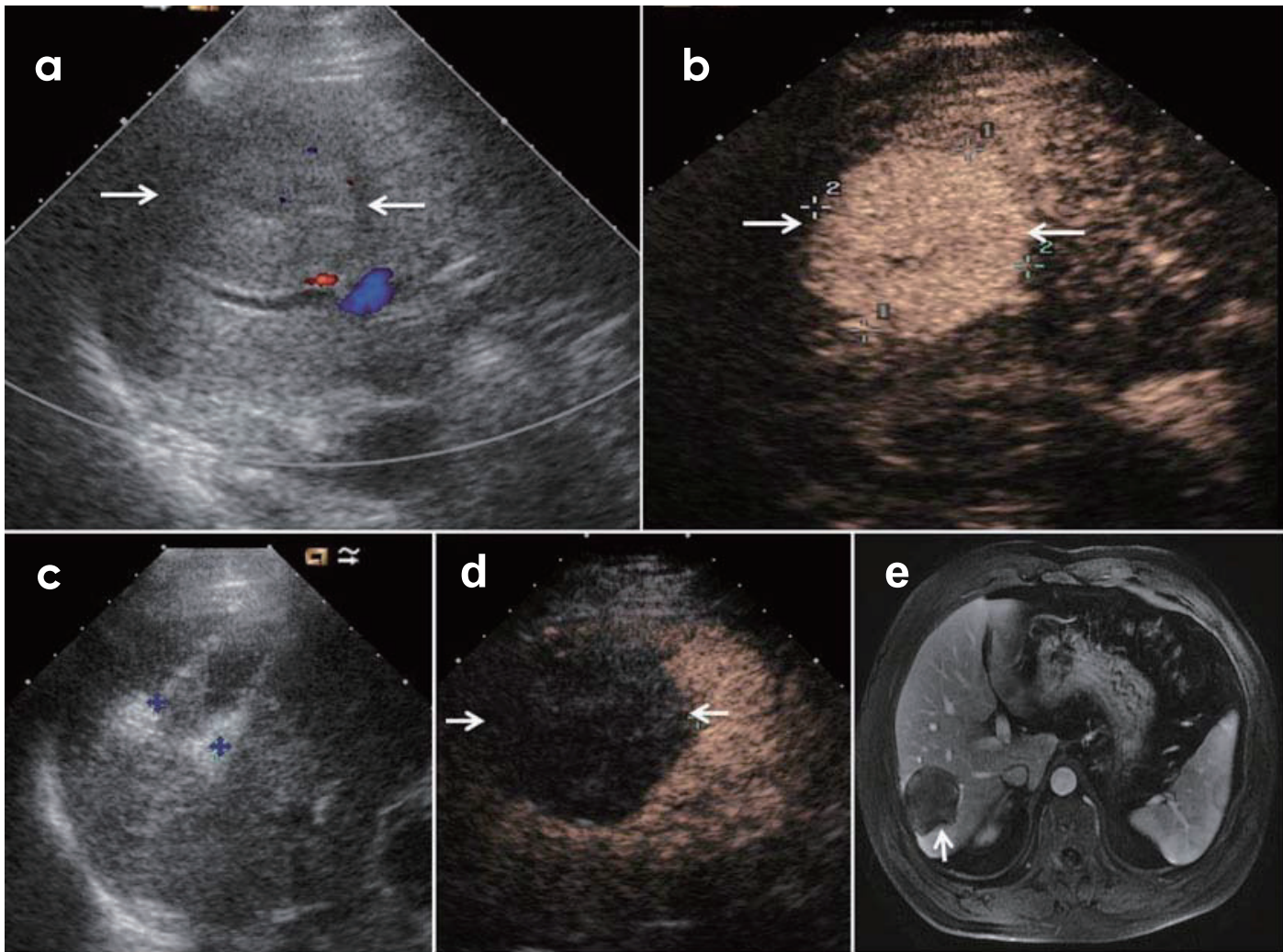


Allows for easy handling of antenna and flexibility regardless of imaging modality

### Features:

- High-performance materials to ensure reliable connection and strength.
- Unique shaft coating material to avoid tissue adhesion.
- Sharp needle tip and thin diameter, making it less invasive.
- Internally water cooled antenna with intelligent temperature control.
- Signal enhancement design for better visibility under CT or ultrasound guidance.
- High efficiency detachable cable, unique enhanced connection with the antenna.





Benefits of Microwave Ablation

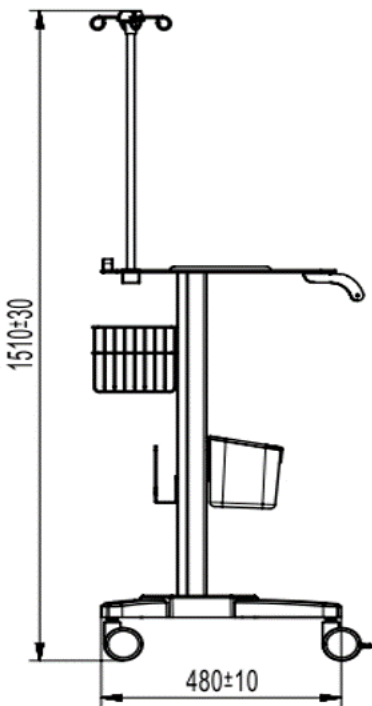
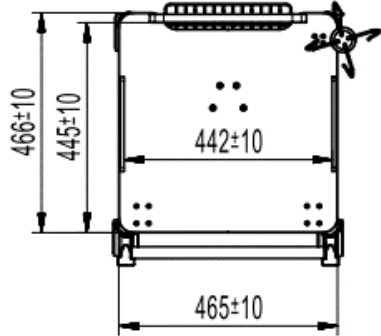
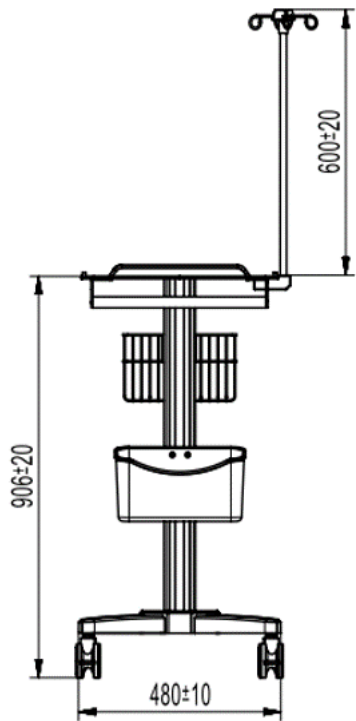
Microwave ablation can generate larger ablation zones in shorter time with less sensibility to heat sink effect. Moreover, MWA radiates all biological issues, such as bone, lung, charred or desiccated tissues. Additionally, multiple antennas can be placed to treat simultaneously for large tumors or multifocal lesion.

With MaxBlate™ New Generation Microwave Ablation System, the achieved ablation zone can be uniform, homogeneous, and predictable. In addition, a choice of antennas and customized settings provides the user with unique opportunities for clinical diversity during treatment.

- (a) Preablation conventional ultrasound (US) scan shows a hypoechoic lesion with blood supply (arrows).
- (b) Contrast-enhanced US before MWA shows tumor enhancement in arterial phase with the size of 5.5 x 4.7 cm. (arrows).
- (c) Conventional US shows two microwave antennas (mark) placed in the tumor.
- (d) Contrast-enhanced US shows no enhancement of the ablation zone at 12 months after treatment (arrows)
- (e) MRI scan obtained 21 months after ablation shows hypoattenuating ablation zone (arrow) without enhancement.

Above statements refers to the following publication  
P. Liang et al. (eds.), Microwave Ablation Treatment of Solid Tomors, DOI 10.1007/978-94-017-9315-5\_4,  
© Springer Science+Business Media Dordrecht 2015,

Custom made trolley and foot pedal for use with MaxBlate™ MWA Generators



# Ordering and Specifications

## MaxBlate™ Pro

|               |                    |
|---------------|--------------------|
| Ref           | KY-2100A           |
| Frequency     | 2450 MHz           |
| Display       | 7-inch touchscreen |
| Energy Output | 5-150W             |
| Time Setting  | 1-30 Minutes       |
| Working Power | 100V-240V 50-60 Hz |
| Weight        | 12 kg              |
| Size          | 46 x 40 x 18 cm    |

Foot pedal included



## MaxBlate™

|               |                    |
|---------------|--------------------|
| Ref           | KY-2000A           |
| Frequency     | 2450 MHz           |
| Display       | 7-inch touchscreen |
| Energy Output | 5-100W             |
| Time Setting  | 1-30 Minutes       |
| Working Power | 100V-240V 50-60 Hz |
| Weight        | 12 kg              |
| Size          | 46 x 40 x 18 cm    |

Foot pedal included



## Custom made trolley for use with MaxBlate™ MWA Generators

| Ref.         | Specifications                            |
|--------------|-------------------------------------------|
| KY-NPTC-1-01 | Trolley for use with MaxBlate™ Generators |

## MaxBlate™ Coaxial Needle with blunt cannula

| Ref         | Diameter | Compatible with....                  | Exposure |
|-------------|----------|--------------------------------------|----------|
| CN-13/78-1  | 13G      | SureTip™-T6 and XphereTip™-QT5       | 45,1 mm  |
| CN-13/128-1 | 13G      | SureTip™-T7 and XphereTip™-QT6       | 45,1 mm  |
| CN-15/78-1  | 15G      | SureTip™-T2 and (XphereTip™ NEW 18G) | 45,1 mm  |
| CN-15/128-1 | 15G      | SureTip™-T3 and (XphereTip™ NEW 18G) | 45,1 mm  |



## XphereTip™ Antennas

| Ref          | Diameter | Active Tip | Total Length |
|--------------|----------|------------|--------------|
| KY-2450B-QT4 | 15G      | 25 MM      | 100 MM       |
| KY-2450B-QT5 | 15G      | 25 MM      | 150 MM       |
| KY-2450B-QT6 | 15G      | 25 MM      | 200 MM       |
| KY-2450B-QT7 | 15G      | 25 MM      | 250 MM       |
| KY-2450B-QT8 | 15G      | 25 MM      | 300 MM       |



## ThyTip™ Antennas

| Ref         | Diameter | Active Tip | Total Length |
|-------------|----------|------------|--------------|
| KY-2450B-5  | 16G      | 3 MM       | 100 MM       |
| KY-2450B-13 | 16G      | 3 MM       | 70 MM        |
| KY-2450B-4  | 18G      | 3 MM       | 70 MM        |
| KY-2450A-14 | 19G      | 3 MM       | 70 MM        |



## SureTip™ Antennas

| Ref          | Diameter | Active Tip | Total Length |
|--------------|----------|------------|--------------|
| KY-2450B-T4  | 15G      | 11 MM      | 100 MM       |
| KY-2450B-T6  | 15G      | 11 MM      | 150 MM       |
| KY-2450B-T7  | 15G      | 11 MM      | 200 MM       |
| KY-2450B-T10 | 15G      | 11 MM      | 250 MM       |
| KY-2450B-T14 | 15G      | 11 MM      | 300 MM       |
| KY-2450A-11  | 16G      | 5 MM       | 130 MM       |
| KY-2450B-T1  | 16G      | 11 MM      | 100 MM       |
| KY-2450B-T2  | 16G      | 11 MM      | 150 MM       |
| KY-2450B-T3  | 16G      | 11 MM      | 200 MM       |
| KY-2BBC-24D  | 16G      | 11 MM      | 300 MM       |
| KY-2450B-T11 | 18G      | 11 MM      | 100 MM       |
| KY-2450B-T5  | 18G      | 11 MM      | 150 MM       |
| KY-2450B-T13 | 18G      | 11 MM      | 200 MM       |



All antennas come with a compatible coaxial cable



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