



Company Profile

**CONNECT THE WORLD.**

# About Raynool

Raynool Technology Co., Ltd. is a provider of antenna solutions for wireless communication products, providing antenna design, sales, manufacturing and production services. Jointly founded by a senior technical team in the industry, and has accumulated rich experience in antenna design and manufacturing.

It cooperates with the board end wiring and circuit design of wireless communication products and passes various strict test requirements And standardized production process, to ensure the consistency of products, to ensure the wireless radiation performance of products.

We focus on Internet of things+, smart home, automotive electronics, digital home, industrial control, wireless power grid and portable network communication devices and other fields to provide customers with all-round antenna design, EMI and RF solutions; according to different application areas of customers, customized development, to provide customers with complete and professional services.

# Development

## Pass the ISO Audit

- Set up production lines.
- The company passed ISO9001 quality management system certification.

2017.04

## Introduce new antenna materials

- Introduce TEFLON high frequency PCB material into customized antenna production line

2018

## Added outdoor antenna product line

- Add outdoor beautification antenna, Fiberglass antenna
- Miniature base station antenna product line

2019.06

2016.10

## Establishment

- Company established.

2018.03

## Company expansion and relocation

- Move to Yinlong Industrial Park.
- Expanded to 6 product lines.

2019.05

## Increase Customer Base

- Expanded product lines.
- Introduce Customers including Skyworth, Johnson Controls, Security Companies etc.

2020.06

## Expanding R&D and testing capabilities

- Established microwave darkroom R&D equipment; 4G/WIFI Active Test+WIFI6E Test.
- Expanded to 8 product lines

# Main Customer



# Our Value

- **Customer First**

All cooperation are customer-centered, customer's achievement is our only motivation.

- **Integrity**

Integrity and win-win cooperation. Staffs, supply chains, shareholders, are the guarantee of our development.

- **Hard Work**

Hard work is our working principle as well as the only source of our rewards.

- **Innovation**

Continuous rethinking, improving, progressing and innovating is the only way we survive.

# Mission



RF-Antenna

RF Antenna



RF-CABLE

RF Cable Assembly



RF-CONN

RF Connector

Services  
➔



➔  
Vision



**The Interconnection of Things** - We're working towards wireless smart home, wireless networking, auto autopilot, smart audio/video, mobile wearable devices, IOT+, smart security and other wireless fields.

# Advantages

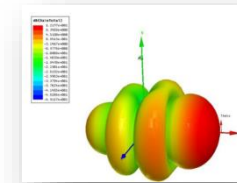
## Frequency

- Frequency: 13.65 MHz - 7150 MHz
- Gian: 0~30 dBi

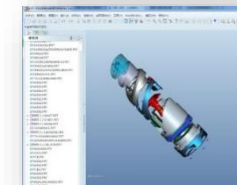


## Capacity

- Product design capabilities
- Antenna simulation capacity
- Automated Production
- Extensive antenna production experience
- Extensive antenna management experience



HFSS Simulation



PROE Design

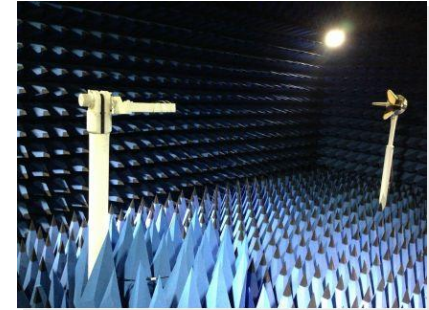


Automated Welding

# Advantages

## Microwave Chamber

- **Frequency:** 600MHz-7.15GHz
- **Size:** 5\*3\*3 M
- **Function:** CTIA OTA test, including TRP and TIS of the mobile station
- **Mobile Station:** (Mobile phone、laptop、 Small mobile communication terminal etc.) antenna test, including gain、 efficiency、 radiation pattern

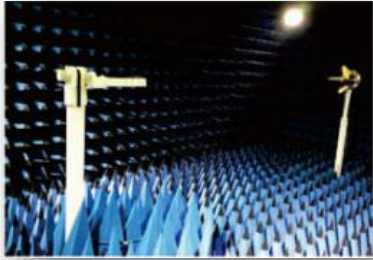


## Product Test

- **Passive Test:** 0.6~7.15GHz ■ Radiation Pattern ■ Gain ■ Efficiency
- **Active Test:** TDR TIS ■ GSM ■ WCDMA ■ TD-CDMA ■ LTE(4G) ■ Wi-Fi6E
- **Test Equipment:** ■ CWM500 ■ Agilent 8960 ■ Agilent 8753ES



# R&D Equipment



**Microwave Chamber**



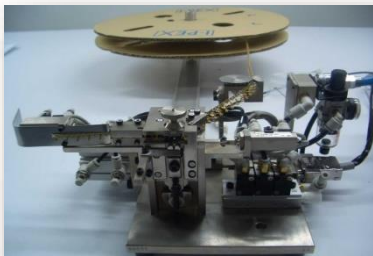
**Network Analyzer**



**Cutting Wire Machine**



**Steel Cutting Wire Machine**



**I-PEX Terminal Machine**



**RF Connector Riveting  
Machine**



**Ultrasonic Equipment**



**Automatic Soldering  
Machine**

# Company Demeanor



**Factory Sites**



**Factory Sites**



**Factory Sites**



**Factory Sites**



**Meeting room**



**Office**



**Quality assurance room**



**Warehouse**

# Products

- Antenna



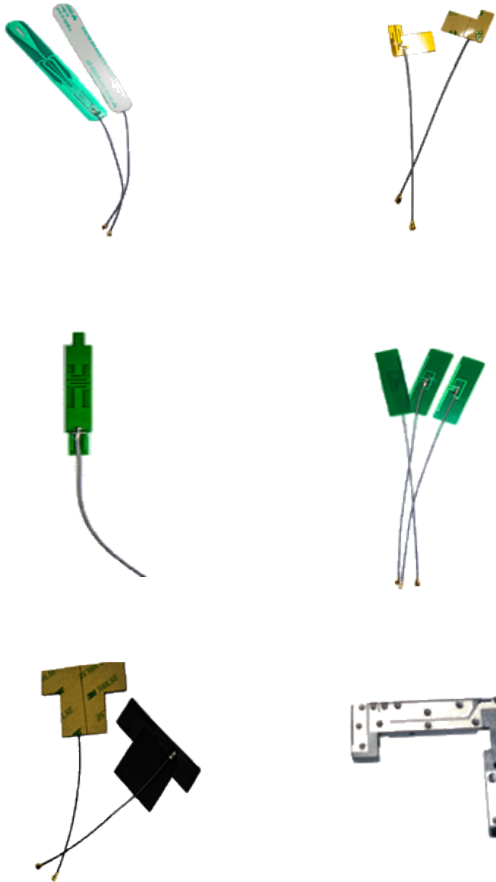
- Cable Assembly



- RF Connector



# Product – Internal Antenna



## • Mechanical Specifications

Size	General or customized
Cable	RF1.13 RF1.32 RF1.37 RF1.78
Connector	I-PEX SMA MMCX MCX
Operating Temperature	- 40 ~ + 60 °C
Operating Humidity	5 - 95%

## • Technical Specifications

Frequency	13.65 - 6000 MHz
Gain	0 - 5 dBi
VSWR	< 2.0
Impedance	50 Ohm
Polarization	Linear

# Product – External Antenna



- **Mechanical Specifications**

Size	General or customized
Cable	RF1.13 RF1.32 RF1.37 RF1.78 RG316 RG174 RG178
Connector	I-PEX SMA MMCX MCX
Operating Temperature	- 40 ~ + 60 °C
Operating Humidity	5 - 95%

- **Technical Specifications**

Frequency	400 - 6000 MHz
Gain	0 - 5 dBi
VSWR	< 2.0
Impedance	50 Ohm
Polarization	Linear

# Product – Sucker Antenna



- **Mechanical Specifications**

Size	General or customized
Cable	RF1.13 RF1.32 RF1.37 RF1.78 RG174 RG178
Connector	I-PEX SMA MMCX MCX
Operating Temperature	- 40 ~ + 60 °C
Operating Humidity	5 - 95%

- **Technical Specifications**

Frequency	DVB-T / GSM / 3G / 4G / Wi-Fi
Gain	0 - 5 dBi
VSWR	< 2.0
Impedance	50 Ohm
Polarization	Linear

# Product – GPS Antenna



- **Mechanical Specifications**

Size	General or customized
Cable	RF1.13 RF1.32 RF1.37 RF1.78 RG174 RG178
Connector	I-PEX SMA MMCX MCX
Operating Temperature	- 40 ~ + 60 °C
Operating Humidity	5 - 95%

- **Technical Specifications**

Frequency	GPS / LTE / Wi-Fi / GSM
Gain	0 - 30 dBi
VSWR	< 2.0
Impedance	50 Ohm
Polarization	Linear

# Product – GPS Antenna



- **Mechanical Specifications**

Size	General or customized
Connector	N or customized
Operating Temperature	- 40 ~ + 60 °C

- **Technical Specifications**

Frequency	4G / 2.4G / 5.8G / 470MHz
Lightning Protection	DC Ground
VSWR	< 1.5
Impedance	50 Ohm
Polarization	Vertical



# Product – Cable Assembly



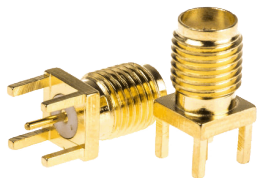
- **Mechanical Specifications**

Size	General or customized
Cable	RF1.13 RF1.32 RF1.37 RF1.78 RG316 RG178
Connector	I-PEX SMA MMCX N TNC
Operating Temperature	- 40 ~ + 60 °C
Operating Humidity	5 - 95%

- **Technical Specifications**

Frequency	0 - 6000 MHz
Impedance	50 / 75 Ohm
VSWR	< 2.0

# Product – RF Connector



- **Mechanical Specifications**

Size	General or customized
------	-----------------------

Model	I-PEX SMA SMB MMCX/MCX TNC N
-------	------------------------------

Operating Temperature	- 40 ~ + 60 °C
-----------------------	----------------

Operating Humidity	5 - 95%
--------------------	---------

- **Technical Specifications**

Frequency	0 - 6000 MHz
-----------	--------------

Impedance	50 / 75 Ohm
-----------	-------------

VSWR	< 2.0
------	-------

# Production Applications

Wireless LAN



Smart Audio / Video



Wireless Network



LoRa IoT



Grid/Wireless meter-reading



Smart TV



Drones & Security Surveillance



Internet of Cars





# Raynool Technology Co., Ltd

**Antennas & Antenna Design**

**RF Connector, RF Cable Assembly, R&D and Manufacturing**

*A7-507 Creative City, Nanshan District, Shenzhen*

*[www.raynool.com](http://www.raynool.com)*