# Single-Target Speed Measurement Radar Quick Guide

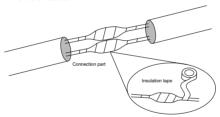
# **Waterproof Requirements**

Please waterproof cables in accordance with the following instructions. User shall assume all responsibility for device damage caused by water due to improper waterproof measures.



#### NOTE!

- Before you start, connect all the needed cables and cut off the copper wires for the cables that you don't use.
- Please use self-adhesive waterproof tape (supplied with some products) to protect the cables.
- Use waterproof components to protect the network cable. Waterproof the power cable separately if you don't use it. The video cable does not need waterproof treatment.
- Use insulation tape (not included in the package) to insulate the connection part
  of each cable.



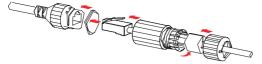
- 2. Waterproof the cables with self-adhesive waterproof tape.
  - (1) Fully stretch the waterproof tape at both ends.
  - (2) Wrap the connection part and the cable ends tightly with waterproof tape. Make sure the tape is fully stretched during the process.
  - (3) Tighten the tape at both ends to prevent water leakage.





Wrap the unused cables together into a bundle

3. Install the supplied waterproof components to the network cable in sequence.

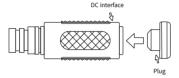


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#### **CAUTION!**

You need to mount the rubber ring onto the network cable interface first.

4. If your camera has a DC cable and you will not use it, insert the plug into the interface.



5. (Optional) After the waterproof treatment is completed, put the cables into a waterproof junction box (purchased separately).



## **CAUTION!**

- The cable connector must not be exposed and must be kept away from water.
- Restore and fasten the device after dismounting.
- Place the power adapter in a power distribution box.

# 1 Packing List

Contact your local dealer if the package is damaged or incomplete. The package contents may vary with device model.

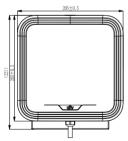
No.	Name	Qty	Unit
1	Radar (with bracket)	1	PCS
2	M6*16 screw	4	PCS
3	Product documents	1	Set
4	Waterproof components	1	Set

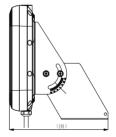
## 2 Overview

This product adopts advanced microwave and high-speed digital signal processing technologies, featuring high precision, easy commissioning, and high stability, used in gantry, tunnel entrance, overpass, especially dangerous roads. It provides accurate, reliable, and real-time traffic information, and ensures the normal traffic management operations.

## 2.1 Appearance

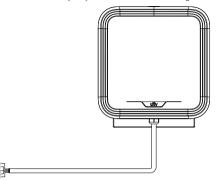
The device dimensions is shown in the figure below. The appearance may vary with device model.





# 2.2 Tail Cable

The tail cables may vary with device model. The figure below is only for illustration.



1. Power input (DC12V)		2. Grounding cable	
	3. RS485A	4. RS485B	
	5. Signal grounding cable		

# 3 Installation

## 3.1 Cable Connection

## 3.1.1 Wiring

Before installation, plan wiring for tail cables.

## 3.1.2 Tail Cable

See the table below for tail cables connection.

Tail Cable	Description
DC +12V	Positive 12V power supply A high-quality power supply is recommended
Grounding cable	Power grounding cable
RS485A (green)	RS485 A (positive terminal)
RS485B (blue)	RS485 B (negative terminal)
Signal grounding cable (brown)	Signal grounding cable, connects RS485 GND terminal

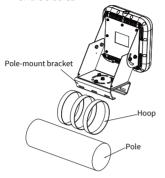
## 3.2 Tools

- ESD wrist strap or gloves
- Electric hand drill
- Pole-mount bracket
- 10mm wrench
- Hoops

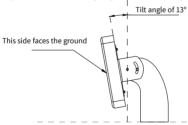
## 3.3 Installation

The radar shall be mounted on the pole. Follow the steps below to install the radar.

 Fix the pole-mount bracket on the pole arm with hoops, and then install the radar on the bracket.



2. Adjust the radar shooting angle, with the tilt angle of 13°±1°.



3. The horizontal shooting angle of the radar should be parallel to the road.



## 4 Startup

After the cable connection is complete, connect the power cable of the radar to the corresponding power terminal of the camera, connect the camera to the mains supply, and then the radar will start up.



## **CAUTION!**

Do not directly connect the radartail cable to the mains supply, otherwise the device may be damaged.

## 5 Access Radar

Communication mode	Note:
RS485	Enter the correct port number to connect the radar to
Default baud rate	the client software.
9600bps	

# **6** FAQ

#### 1 The client software cannot connect to the radar.

Check if the power cable or RS485 cable is connected correctly. For example, make sure that the positive and negative terminals of the power are not reversely connected.

#### 2 The radar cannot detect objects.

Check if the tilt angle of the radar is proper.

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#### About This Manual

- This manual is intended for multiple product models, and the photos, illustrations, descriptions, etc, in this manual may be different from the actual appearances, functions, features, etc, of the product.
- This manual is intended for multiple software versions, and the illustrations and descriptions
  in this manual may be different from the actual GUI and functions of the software.

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  damages for the product described in this manual (other than as may be required by
  applicable law in cases involving personal injury) exceed the amount of money that you have
  paid for the product.

#### **Network Security**

#### Please take all necessary measures to enhance network security for your device.

The following are necessary measures for the network security of your device:

Change default password and setstrong password: You are strongly recommended to change
the default password after your first login and set a strong password of at least nine characters
including all three elements: digits, letters and special characters.

Keep firmware up to date: It is recommended that your device is always upgraded to the latest
version for the latest functions and better security. Visit Uniview's official website or contact
your local dealer for the latest firmware.

#### The following are recommendations for enhancing network security of your device:

- Change password regularly. Change your device password on a regular basis and keep the
  password safe. Make sure only the authorized user can log in to the device.
- Enable HTTPS/SSL: Use SSL certificate to encrypt HTTP communications and ensure data security.
- Enable IP address filtering: Allow access only from the specified IP addresses.
- Minimum port mapping: Configure your router or firewall to open a minimum set of ports to
  the WAN and keep only the necessary port mappings. Never set the device as the DMZ host
  or configure a full cone NAT.
- Disable the automatic login and save password features: If multiple users have access to your computer, it is recommended that you disable these features to prevent unauthorized access.
- Choose username and password discretely: Avoid using the username and password of your social media, bank, email account, etc, as the username and password of your device, in case your social media, bank and email account information is leaked.
- Restrict user permissions: If more than one user needs access to your system, make sure each
  user is granted only the necessary permissions.
- Disable UPnP: When UPnP is enabled, the router will automatically map internal ports, and
  the system will automatically forward port data, which results in the risks of data leakage.
  Therefore, it is recommended to disable UPnP if HTTP and TCP port mapping have been
  enabled manually on your router.
- SNMP: Disable SNMP if you do not use it. If you do use it, then SNMPv3 is recommended.
- Multicast: Multicast is intended to transmit video to multiple devices. If you do not use this
  function, it is recommended you disable multicast on your network.
- Check logs: Check your device logs regularly to detect unauthorized access or abnormal
  operations.
- Physical protection: Keep the device in a locked room or cabinet to prevent unauthorized physical access.
- Isolate video surveillance network: Isolating your video surveillance network with other service networks helps prevent unauthorized access to devices in your security system from other service networks.

#### Learn More

You may also obtain security information under Security Response Center at Uniview's official website.

## Safety Warnings

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property. Storage, Transportation, and Use

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device.
   Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Uniview first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.
- Take proper waterproof measures in accordance with requirements before using the device outdoors.

#### **Power Requirements**

- Use a power supply that meets LPS/LEC requirements if an adapter is used.
- Install and use the device in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended cordset (power cord) in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.
- Ground your device properly if the device is intended to be grounded.

#### **Battery Use Caution**

- When battery is used, avoid:
  - > Extremely high orlow temperature and air pressure during use, storage and transportation.
  - Battery replacement.
- Use the battery properly. Improper use of the battery such as the following may cause risks of fire, explosion or leakage of flammable liquid or gas.
  - Replace battery with an incorrect type.
  - $\blacktriangleright \quad \text{Dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery}.$
- Dispose of the used battery according to your local regulations or the battery manufacturer's instructions.

#### Avertissement de l'utilisation de la batterie

- Lorsque utiliser la batterie, évitez:
  - Température et pression d'air extrêmement élevées ou basses pendant l'utilisation, le stockage et le transport.
  - Remplacement de la batterie.
- Utilisez la batterie correctement. Mauvaise utilisation de la batterie comme celles mentionnées ici, peut entraîner des risques d'incendie, d'explosion ou de fuite liquide de gaz inflammables.

- > Remplacer la batterie par un type incorrect.
- Disposer d'une batterie dans le feu ou un four chaud, écraser mécaniquement ou couper la batterie
- Disposer la batterie utilisée conformément à vos règlements locaux ou aux instructions du fabricant de la batterie.

#### Personal safety warnings:

- Chemical Burn Hazard. This product contains a coin cell battery. Do NOT ingest the battery. It can cause severe internal burns and lead to death.
- > Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

#### Avertissements de sécurité personnelle:

- Risque de brûlure chimique. Ce produit contient une batterie de cellules. N'ingérer pas la batterie. Si la batterie de cellule est avalée, elle peut causer de graves brûlures internes en seulement 2 heures et peut entraîner la mort.
- > Gardez les batteries nouvelles ou utilisées à l'écart des enfants.
- Si le compartiment de la batterie ne se ferme pas en toute sécurité, cessez d'utiliser le produit et gardez-le à l'écart des enfants.
- Si vous pensez que des piles ont pu être avalées ou placées à l'intérieur d'une partie du corps, consultez immédiatement un médecin.

#### Regulatory Compliance

#### FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

 $\label{thm:comsum} \mbox{Visit http://en.uniview.com/Support/Download\_Center/Product\_Installation/Declaration/ for SDoC.}$ 

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### LVD/EMC Directive



This product complies with the European Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

#### WEEE Directive-2012/19/EU



The product this manual refers to is covered by the Waste Electrical & Electronic Equipment (WEEE) Directive and must be disposed of in a responsible manner.

#### Battery Regulation- (EU) 2023/1542



Battery in the product complies with the European Battery Regulation (EU) 2023/1542. For proper recycling, return the battery to your supplier or to a designated collection point.