



# Meter Reading Robot

— makes meter reading easier



**Wudao Water Co. Ltd**



**020-38057154**



**[www.iowater.com.cn](http://www.iowater.com.cn)**

# A Brief Introduction of Our Company

- hi-tech startup company
- 15 patents of invention
- core product --meter reading robot
- an elite team, specializing in fields of Internet of Things(ioT),  
artificial intelligence(AI) and intelligent hardware



# COMPANY APTITUDE



- More than TEN patents
- Top ten in Global IoT Competition
- RedDot Design Award



# 奖状

广州物道水务科技有限公司

恭喜贵公司获得“2017全球物联网大会  
及创新成果点映”

第九名

全球物联网大会组委会  
中关村物联网产业联盟  
国家物联网产业技术创新战略联盟



GIC-IoT Award TOP10  
GIC 全球物联网艾欧特大奖  
“十强企业”

北京云狐时  
Beijing Yunhu

科技  
Pion  
Co., L  
works  
公



reddot design award

Your result in the Red Dot Award: Product Design 2018:

The Red Dot jury awarded the title “Red Dot” for high design quality to:

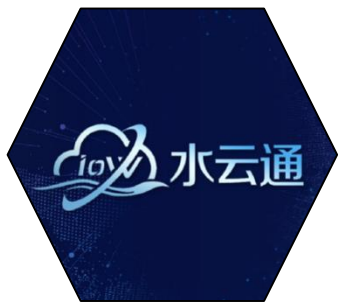
33-02641-2018PD Meter reading robot

# Certificates of Patent for Utility Model



# The Components of Our Brand

## Company brand



icloud of water



**Intelligent meter reading robot: an intelligent monitoring terminal installed on a variety of instruments**



***icloud of water* Wechat official account: a mobile tool for meter reading provided to our clients**



***icloud of water* Wechat mini program: a mobile tool for installation**

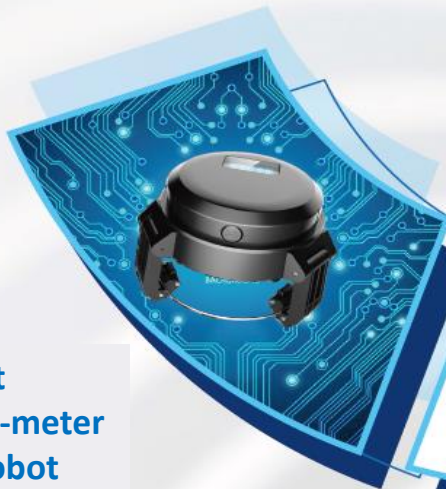


***icloud of water* Web application: a management platform offered to our corporate clients.**

# SYSTEM COMPOSITION

Meter Reading Robot + Cloud Platform + APP

- Intelligent terminal --meter reading robot



- Cloud platform



- Mobile APP



- PC Web Application



# how our product works

## meter reading robot

- ◆ Install the meter reading robot, and bind it to the id of the water or gas meter.
- ◆ The robot takes pictures of the dial and uploads the pictures to our Cloud platform.

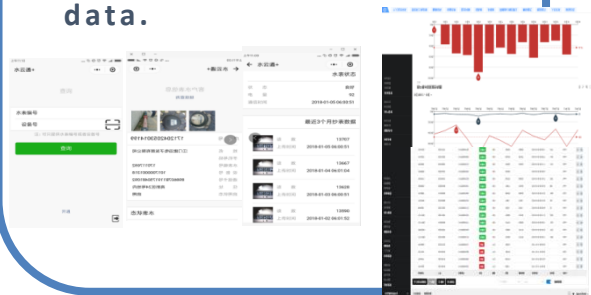


## Cloud platform

- ◆ Cloud platform activates AI identification when receiving terminal image data.
- ◆ Identified data will be transmitted to relevant application platforms.

## APP

- ◆ Wechat mini program allows clients to check the data from each robot at anytime.
- ◆ Web application manages the database.
- ◆ Client's platform displays their own meter-reading data.



# INTELLIGENT METER READING

• CHANGE WATER SERVICE •

The launch of meter reading robot brings an intelligent evolution to old water meters.



**Robot**

↓  
never get tired  
always be accurate



**Intelligent meter reading**

↓  
remotely control and  
auto-transmit data



**Artificial Intelligence**

↓  
keep pace with  
the times

**This product designed for water supply companies overturns the traditional modes of meter reading. It combines high technologies such as intelligent identification, Cloud Computing and Internet of Things. It is a historical breakthrough from manual meter reading to intelligent meter reading.**

# A NEW TECHNOLOGY

• THE CLOUD APPRECIATION •

Intelligent meter reading leads water affairs to a new technology era. People would analyze and forecast the statistics collected by meter reading robots. Big Data and Cloud Computing would provide more possibilities as well. Additional value-added services could also be offered:

01

shorten the settlement cycle of water charges and improve cash flow

02

help carry out RNW analysis effectively and improve operating efficiency

03

real-time monitor water consumption of key accounts and improve water supply service

04

make intelligent forecast on water consumption and give advice on water supply scheduling

# CLOUD PLATFORM

## CLOUD DATA, INTELLIGENT MANAGEMENT

• POWERFUL CLOUD PLATFORM •

*icloud of water* application platform has four core features to process cloud data and intelligently manage the meter reading robot.

### robot management

tracks each robot, from its installation, renewal, to status monitoring and damage warning.

### meter reading management

allows users to easily read and export the data of meter reading.

### system management

uses the backend database to log the process.

### user management

allows users to manage roles and permission, and read the log at anytime to maintain the system.

# Three Main Products

Industry



Household



Gas





## For Industry

**Size**

102\*102\*60MM

**Diameter**

> 80DN

**Power supply**

Battery/External power supply

**Mode of Data Collection**

Camera reading

**Mode of Transmission**

2G/NB\_iot/LoRa

**Battery**

Lithium 8500mAh

**Working Temperature**

-50~80°C



## For Household

<b>Size</b>	140*90*90MM
<b>Diameter</b>	< 80DN
<b>Power supply</b>	Battery
<b>Mode of Data Collection</b>	Camera reading
<b>Mode of Transmission</b>	2G/NB_iot/LoRa
<b>Battery</b>	Lithium 8500mAh
<b>Working Temperature</b>	-50~80°C



## For Gas

<b>Size</b>	172*109*85MM
<b>Power supply</b>	Battery
<b>Mode of Data Collection</b>	Camera reading
<b>Mode of Transmission</b>	2G/ NB_iot/LoRa
<b>Battery</b>	Lithium 8500mAh
<b>Working Temperature</b>	-50~80°C



# ADVANTAGE

01

no need to transform the original meters, save labor cost and time for installation

02

adapt to various meters and environment

03

AI identification's accuracy up to 99.8%

04

convenient to read and share data

## Advantage –separate design



- No need to transform the original meter, no need to cut off water supply when installing
- Save time and labor cost of installation
- Easy to maintain



## Advantage

### -AI identification

- Identification accuracy is up to 99.8%
- Identify more than 100 kinds of meters



## Advantage –multiple data applications

- PC application platforms
- Mobile Wechat mini program
- Terminal users may conveniently read shared data.

05 东海  
表盘读数—02210

06 汉元  
表盘读数—00012

07 宁波  
表盘读数—35439

08 宁波  
表盘读数—133698

09 申WPD  
表盘读数—294990

10 宁波股份  
表盘读数—584978

抄表机器人  
微距拍摄各类表盘

适用市面各类表盘  
采用业内最先进的微距拍摄技术  
精准识别捕获表盘数据

## Advantage

—Reading through  
camera

- Using macro camera to take pictures and recognizing various water and gas meters

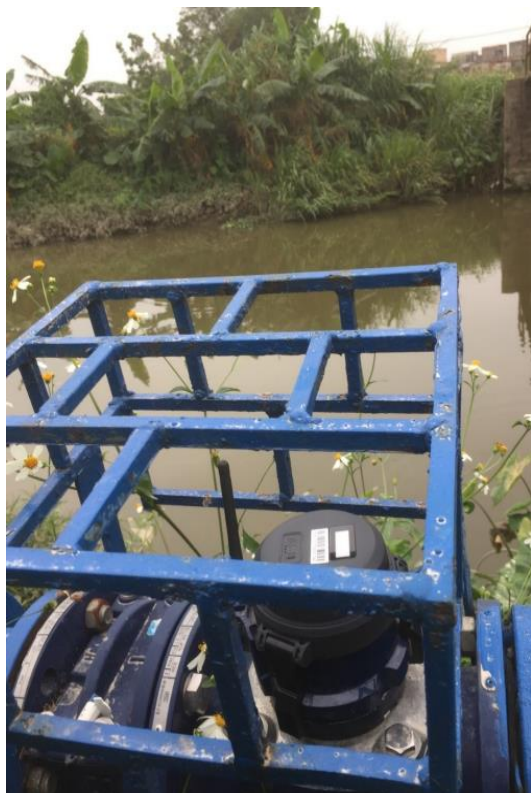
# Cases



# Cases



# Cases





ongres  
城

World Center

World Center

Global Internet of Things Contest  
Finals & Roadshow

“全球物联网创新成果点映”  
总决赛路演

2017年12月10日-11日




### 抄表机器人系列产品及核心优势



抄表机器人&水表智能机芯

优势：业内首创... 智能... 解决方案

10:52

Identifying Future IoT Leaders

# 寻找颠覆者

Intelligent meter reader will usher in its rapid development period

# 智能抄表将迎来爆发期



技有限公司

2018RF  
产业应用及创

场景驱动应用 融合

指导单位  
福建省经济和  
厦门市经济和

主办单位  
福建省物联  
厦门市物联

联合主  
厦门英诺尔  
物联中国团体

协办

厦门市物流协会  
科迈瑞(厦门)智能科技有限公司  
厦门市石牌商会  
厦门市商精英文化交流  
厦门市经济发展研究会

支持