

HF Cascaded Access Control Gate Device

SR-RH-ACS3156

User's Guide



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1 Introduction

1.1 Description

SR-RH-ACS3156 is a high performance ISO/IEC15693 protocol HF tag gate device. Designed upon fully self-intellectual property, it supports fast tag anti-collision operation with high identification rate, 2 line infrared motion sensor with intelligent people movement direction determination and counting, EAS/AFI security surveillance, multiple channel synchronization, RS232/485 interface, remote configuration and management. It is an ideal choice for various HF RFID application systems such as library anti-theft, open access control, conference attendance and logistics etc.

1.2 FEATURES

- ◆Self-intellectual property;
- ◆Support mainstream ISO15693 protocol tag (TI, PHILIPS, ST, INFINEON, FUJITSU, EM...) omni-directional operation;
- ◆Support multi-channel seamless cascade work;
- ◆Use a metal shielding design, strong anti-jamming capability;
- ◆Low power design, 24 v low voltage power supply, safe and reliable;
- ◆2 line infrared motion sensor with intelligent movement direction determination and people counting;
- ◆Article 28600 information storage capacity;
- ◆Configurable alarm Settings;
- ◆RS232/RS485/RJ45 interfaces at option.

2 Function Introductions

SR-RH-ACS3156 gate device has 3 functions: System function, Infrared statistics function, extended function.

2.1 System function

- ◆Device configuration parameters query and modify;
- ◆Device ID number query and modify

- ◆Real-time-clock query and modify;
- ◆Master/Slave panel synchronization parameter query and modification
- ◆Detect user custom AFI tag;
- ◆Alarm, beep, led, relay query and modify;
- ◆Device and reader connect status query;
- ◆Ta-People correlation algorithm;
- ◆Whether write background records query and modify;
- ◆Save configuration information to background or recover;
- ◆Relay signal control;

2.2 Infrared statistics function

- ◆Obtain and empty channel machine cache record tag UID and infrared judgment related message;
- ◆Retrieval, extraction, and delete the backend storage record tag UID and infrared judgment related message;
- ◆Infrared detection set on and off;
- ◆Set or read the direction of infrared detection.

2.3 Extended function

- ◆Device can external entrance guard controller, in realizing the function of entrance guard attendance at the same time realize the network communication.

3 Device external dimensions

SR-RH-ACS3156:L, R and M.

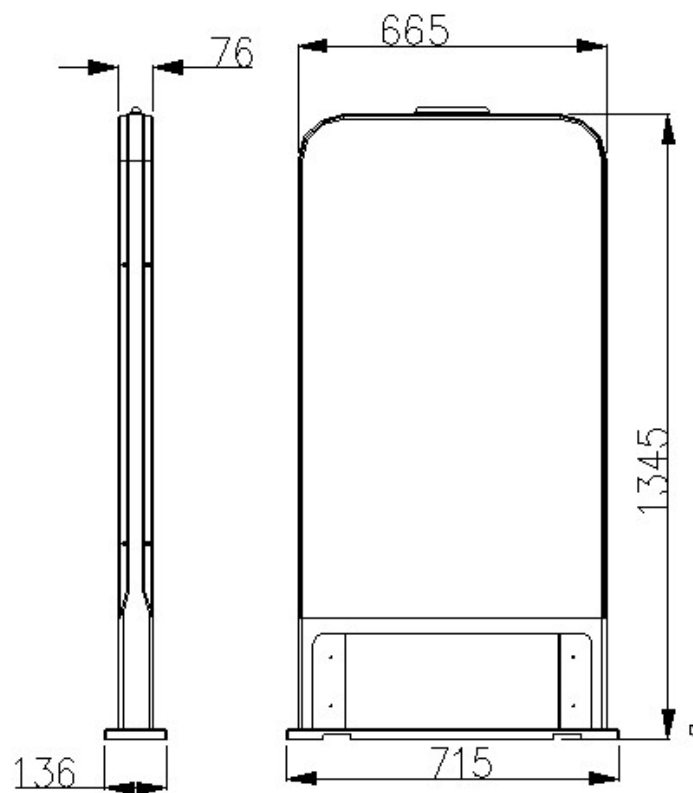
L and R are basically the same

Picture 1:

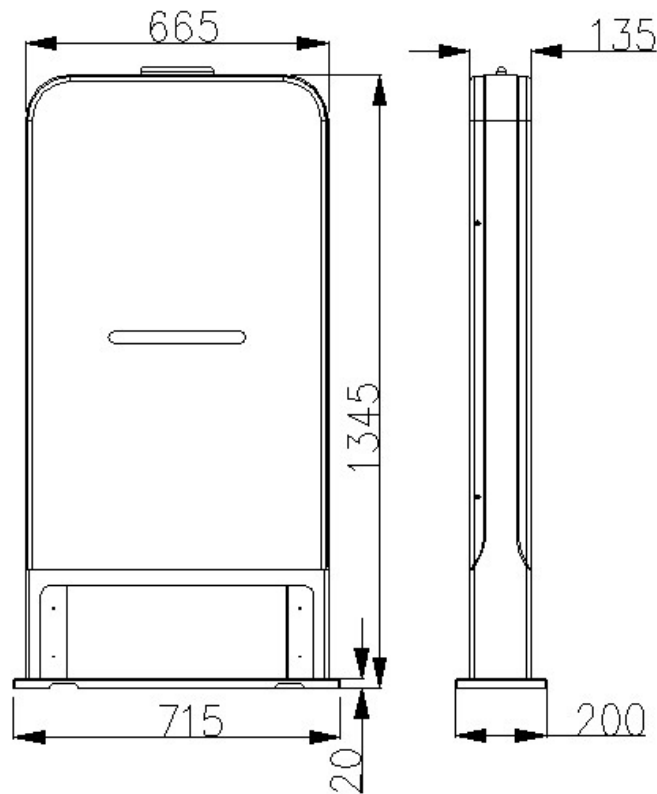


1 external dimension

Picture 2:



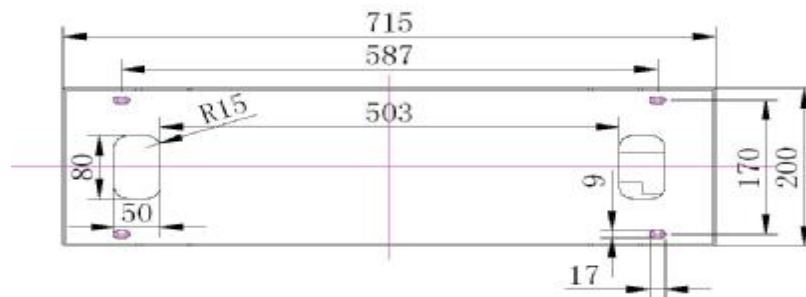
(a) L/R size



(b) M size



(c) L/R pedestal size



(d) M pedestal size

4 Installation Guide

4.1 Cable introduced

Cable	Comm Socket	Remark
AC220V Power cable	3Pin Power socket	
DC24V Power cable(4 pin female)	DC24V Power socket(4 pin male)	
RF cable(BNC male)	RF socket(BNC female)	
Comm cable(8 Pin female)	Comm socket(8 Pin male)	
Reticle	RJ45 Socket	Network interface

RS485 layout	One side 8pin,one side null	 8Pin socket connect device, 2 Pin connect RS485- RS232 module
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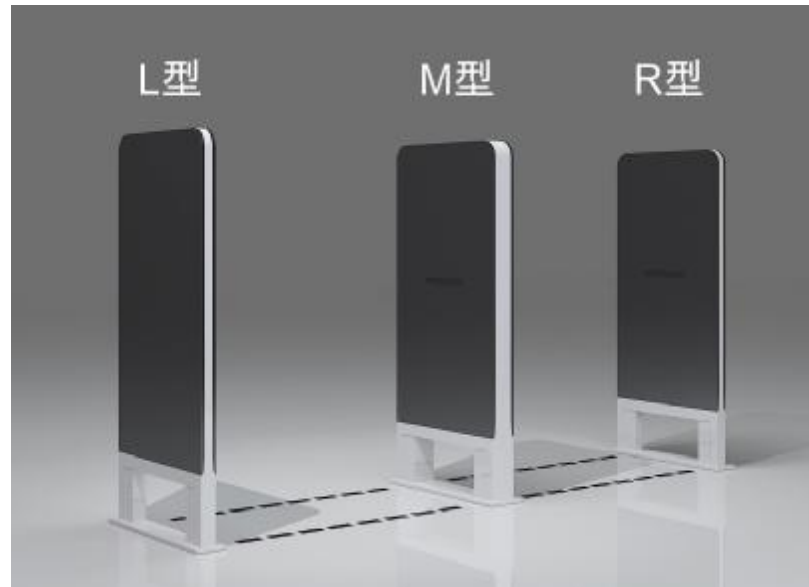
Note: L no pinout , R 4 pinout , M 3 pinout.

4.2 Installation regulation

L and R are usually placed in the ends of the device array, a separate L and R can support a single Channel. When Composed of single channel with L and R, the infrared transmission serial port both facing device inside; when using the L and R join M with two-channel, L, R and M outlet direction on the same side; Composed of multi-channel, and so on, add more device piece of M channels .



(a) Single channel

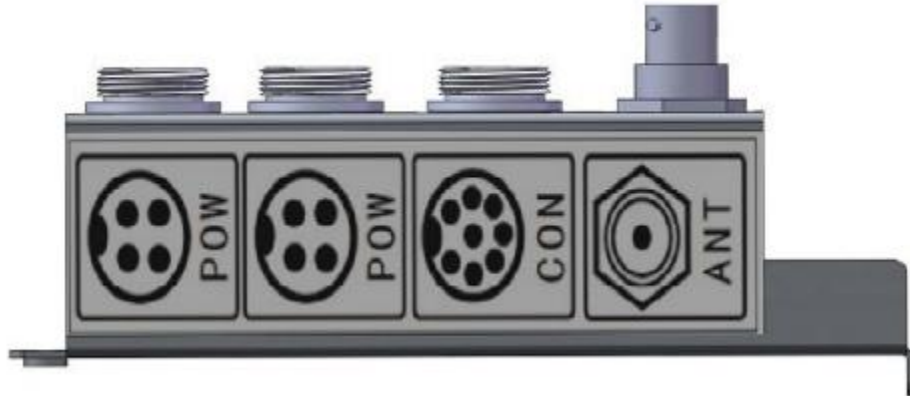


(b) Two channel



(c) Three channel

4.3 Device interface



Picture 4 Interface

From left to right: DC24V Power socket(4 Pin)、DC24V Power socket(4 Pin)、Control socket(8 Pin)、Antenna socket(BNC female).

Interface board is placed within the channel, when installation needs to machine a channel of a structure down to open the interface board. As follow:



Pic 5

4.4 Device connection

Two Channel for example:

(1) Connect RF cable

◆ R BNC RF cable connects to M BNC socket (Ant).

◆ M BNC RF cable connects to L BNC socket (Ant).

(2) Connect control cable

◆ R 8pin cable connects to M 8 pin (CON);

◆ M 8pin cable connect to L 8pin(CON)。

(3) Connect power cable

◆R there are two 4pin cable, one connect to power box, the other connect to M 4pin socket(POW);

◆M 4pin power cable connect to L 4pin socket(POW)

(4) Connect RS485 or TCP

Two method: RS485 or network communication. Note: use RS485,need use RS232- RS485 module, change 485 information to RS232.

◆RS485 communication

RS485 config 8pin cable insert to R 8pin socket. The other two cable connect to RS232-RS485 module, blue R+, brown R-.



Pic 6 RS485config cable

◆Network communication

L device there is a network interface, network communication can be used to use normal wiring PC or other network devices.

(5) External crate power cable

R device DC24V power cable(4 pin)connect to external crate 4 pin, external crate use 3 pin AC220V power cable supply power.



Pic 7 Power crate interface

5 Technical Parameter

Project	Sign	value	unit
Colour	Color	White+black	
Material	Mat	ABS+ zinc sheet meta	
Height	H	136	cm
Width	W	66	cm
Thickness	T	8/15	cm
Weight	Weight	17/25	Kg
VCC	VAC	220/50	V/Hz
Power	W	24	W

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

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.

IC Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired

operation of the device.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage,

et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement