RFID RD-100

RD-100 is an intelligent terminal used to park bicycles/ e-bikes/ scooters at fixed points and standardize parking behaviors. It adopts RFID technology to realize the function of accurate parking and the parking precision can reach centimeter. It can help solve the problem of parking disorder and problems disturbing government departments. As an accessory of intelligent central control, the terminal needs to be used together with intelligent central control to realize functions of bicycles/ e-bikes/ scooters. The product has stable and reliable performance and it can facilitate construction and after-sale management and its identification distance can be adjusted flexibly. Therefore, RD-100 can meet demands of different application scenarios.

Functions:

-- Centimetre parking accuracy

-- Label management

SPECIFICATIONS：

Unity machine parameters

RFID reader	Dimension	length, width and height:(104.5±0.15)mm × (77.76± 0.15)mm × (20.7±0.15)mm
	Input voltage range	Supported broad voltage input: 12V-72V
	Interface Communication Mode	485 Communications/Sport Communications
	power dissipation	Normal work :<10 mA@48V
	Waterproof and dustproof	IP67
	Shell materials	ABS+PC, V0 fire protection grade
RFID label	size	Length, width and height: 100mmx100mmx20mm
	waterproof and dustproof	IP67
	Shell materials	ABS+PC, V0 fire protection grade

RFID RF performance	
Frequency	840MHz--960MHz
Identification distance	0-1m, adjustable within distance
Response rate	ms grade

Functional Description

Function list	Features
Centimeter parking accuracy	The RFID identification distance can be set between 0 and 1 meters, and the identification distance can be set according to the RFID reader

	installed in different positions of the e-bike to meet the requirements of accurate parking.
Label management	RFID label supports separate management and batch management, depending on customer selection, each label has a separate ID number, can unify the management of these labels.If there is a handheld device, the label can be batch management.

Advantage contrast

RFID	NFC
0-1 meter distance, adjustable recognition distance, strong subsequent scalability.	Fixed distance, can not remotely configured
Fast response rate，ms level response rate.	The response rate is slow and there is a certain delay.
Small size, easy to install, good adaptability.	Large size, inconvenient installation
The identification area is a circular area，easy to park.	Point-to-point recognition, inconvenient parking
Label management is convenient.	Label management is difficult.
RFID labels easy to install and late-maintenance.	The label is buried under the glue, and the late-maintenance work is heavy.