## **User Guide**

Default Frequency: 1.4GHz Version: 20240701V3.1



### iVcan.com Version history

Date	Version	Modification description
20231219	V1.0	Initial version
20240315	V2.0	Modified 4.1 Power Supply, 5.4; 5,5; 5.7 Chapters
20240405	V3.0	Modified 5.3, 5.4; 5,5; 5.7 Chapters
20240701	V3.1	Modified interface description in 4.2 and section 5.4
		to add SBUS configuration

### Notes

- 1. Ensure that the correct voltage is used to power the device. 24V@2A is recommended.
- 2. Install the antenna before powering on the device to avoid circuit damage. Place the two antennas of the device at a distance greater than 15cm away from large metal structures to avoid communication obstruction caused by the preceding reasons.
- 3. Make sure that other electronic devices are not placed too close to the antenna. To avoid affecting the ground noise of the device.
- 4. Pull distance as far as possible to make the ground end antenna without obstacles. The height of the ground antenna is greater than 3 meters.
- 5. Before use, please ensure that all the connections are tight and reliable, and all the components work normally.
- 6. Please do not disassemble or modify, otherwise there will be no warranty. If the failure occurs during installation or testing. To solve the problem, please contact the original technical support.

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### **iVcan**.com 1.Product overview

Vcan1933 is a self-developed, Optional 2W, 5W, 8W 10W, 20W power TDD bidirectional graph digital integrated wireless transmission equipment. The product has the functions of real-time interference detection, adaptive frequency selection, adaptive stream, automatic retransmission, and automatic power control, which greatly improves the ability of anti-multipath and anti-interference, and has the characteristics of high reliability, good stability, and low delay.

This product is suitable for fire prevention, inspection, and monitoring. In the case of good air-to-ground visibility, the transmission distance can reach 100KM+.

	Product li	ist (2)	
No	Product	Instructions	Num
1	Vcan1933	TDD wireless transmission radio	2
2	J30J-25pin	30cm cable	2
3	Little glue stick antenna	Gain: 2.5dBi	2
4	Small antenna extension cable	1m cable	2
5		6dBi/9dBi	1
		Omnidirectional antennas	
6	All-in-one ground terminal antenna kit	Omnidirectional antenna 3m	1
	(optional)	extension cable	
7		13dBi flat directional antenna	1
8		Directional antenna 4m	1
		extension cable	
9		3m bracket + hand crank +U-	1
		shaped piece	

### 2 Product accessories



### **iVcan.**com 3 Product connection

### 3.1 Connection diagram(Air)



#### **3.2 Air Connection**

Step1: Connect antenna	The distance between the two antennas must be greater than
	15cm.The tail is connected to the J30J-25PIN.
Step2: Connect serial port	It can be connected to flight control equipment or other serial
	devices. Note the serial port level.
Step3: Connect network port	A single or dual network port will be used to connect the camera.
Step4: Connect power	Power the equipment DC22~30V, typical value: +24V@2A.
Step5: SYNC light	After both the master and slave devices are powered on, check
	whether the SYNC indicator is steady on (synchronous).



### **iVcan**.com 3.3 Connection diagram(Ground)



### **3.4 Ground Connection**

Step1: Connect antenna	The distance between the two antennas must be greater than
	15cm.The tail is connected to the J30J-25PIN.
Step2: Connect serial port	It can be connected to the computer serial port tool or
	other serial port devices.
Step3: Connect network port	Connect the network to the computer, configure the IP address
	of the computer to be in the same network segment as the IP
	address of the device. Then use the WEB or host computer for
	parameter configuration and status query.
Step4: Connect power	Power the equipment DC22~30V, typical value: +24V@2A.
Step5: SYNC light	After both the master and slave devices are powered on, check
	whether the SYNC indicator is steady on (synchronous).
Step6: Play video	Open the video player software. View live transmission video.

### iVcan.com 4 Product use

#### 4.1 Power supply

The device uses DC 22~30V power supply. The typical value is +24V@2A. The average current of the primary and secondary terminals under different voltages is shown in the following table. Slave power consumption  $\leq$ 48W, master power consumption  $\leq$ 12W.

Supply voltage	Air(slave)	Ground(master)		
	Working current (A)	Working current (A)		
22V	1.75A	0.48A		
24V	1.75A	0.44A		
28V	1.72A	0.39A		
Note: It is recommended that customers use the 24V@2A power				
supply for powe	r supply.			

### 4.2 Wiring definition



The device interfaces are divided into power interface and data interface. The power interface is powered separately. The model of the interface is XT30PW-M. The data interface uses the J30JZ-25pin2 connector, which has two 100 Mbit/s network ports and four serial ports. The serial ports are two RS232/TTL channels, one RS-422 channel, and two SBUS or one TTL channel. When SBUS is not used, it can be configured as TTL.



Power interface: XT30PW-M Specific pin definition				
Linear	Pin name	Interface	Interface description	Signal
order		definition		direction
1	+	POWER +	Input power positive	I
2	-	POWER -	Input power negative	

Data interface: J30J-25PIN Specific pin definition					
Linear	Pin name	Interface	Interface description	Signal	
order		definition		direction	
1&2	NC	Reserve	Reserve		
3&4	GND	Ground	Ground	0	
5	422A		Receiving data RX+		
6	422B	Serial port 3	Receiving data RX-		
7	422Z	RS-422	Sending data TX-	0	
8	422Y		Sending data TX+	0	
9	TXD_A	Serial port 1	Sending data TX	0	
10	RXD_A	RS232/TTL	Receiving data RX		
11	TXD_B	Serial port 2	Sending data TX	0	
12	RXD_B	RS232/TTL	Receiving data RX		
13	GND	Ground	Serial port 2 ground	0	
14	SBUS/TTL TX	Serial 4	SBUS only output (Air)	0	
15	SBUS/TTL RX	SBUS*2/TTL*1	SBUS only input (Ground)		
16	TTL GND	(Note4、5)	TTL GND	0	
17	TX1P+		Sending data TX+	0	
18	TX1M-	Ethernet 1	Sending data TX-	0	
19	RX1P+		Receiving data RX+		
20	RX1M-		Receiving data RX-		
21	GND	GND	Serial port 1 ground	0	
22	TX2P+		Sending data TX+	0	
23	TX2M-	Ethernet 2	Sending data TX-	0	
24	RX2P+		Receiving data RX+		
25	RX2M-		Receiving data RX-		

Note1: Signal direction I indicates radio input and direction O indicates radio output.

Note2: When using the device serial port 1/2, check whether it is TTL level or RS232 level.

Note3: The serial port level TTL or RS232 is determined by the factory hardware and cannot be modified by software.

Note4: SBUS 14 and 15 pins are in on the ground end and SBUS14 and 15 pins are out on the air end.

Note 5: If you need to use 2-way SBUS, you need to configure 14-pin >-14pin for the air terminal SBUS mapping. 15pin->15pin。

### **iVcan**.com 4.3 Product indicator meaning



#### Power light PWR (green)

When the PWR light is on, the device is powered on.

#### SYNC (green)

Out of sync state, light flashing.

After synchronization, the light is steady on.

#### Network port light : LAN1, LAN2 (green)

The network port light blinks when data is being sent or received.

#### Receiving signal energy light(RSSI 3 green

#### lights)

The greater the number of energy lights, the greater the signal reception strength.

The RSSI light represents the str	ength of the received signal
Number of RSSI energy lights on	Received energy dBm
3 RSSI lights on	about -55dBm
2 RSSI lights on	about -80dBm
1 RSSI light on	about -95dBm



Module	Mode			light status	
type		PWR	SYNC	LAN 1 LAN 2	RSSI 123
master	Un-sync	Powered on	Flashing	Data sending and receiving, flashing	Off
master	Sync	Powered on	Steady on	Data sending and receiving, flashing	Proportional to the strength of the received signal
slave	Un-sync	Powered on	Flashing	Data sending and receiving, flashing	Searching
slave	Sync	Powered on	Steady on	Data sending and receiving, flashing	Proportional to the strength of the received signal

When the primary and secondary devices are not paired, the PWR indicator of the primary and secondary devices is steady on, the SYNC indicator is blinking, and the RSSI indicator of the primary device is off. The RSSI of the slave device will always be in the search state. After the master/slave synchronization, the SYNC indicator of the master/slave is steady on. The master-slave RSSI lamp displays the received signal energy intensity. When the network port is sending or receiving data, the LAN1 and LAN2 indicators of the primary and secondary devices blink.

### **iVcan.** 5. WEB Parameter configuration

#### 5.1 Device IP

The default IP address of the master (ground) device is 192.168.10.250, the default IP address of the trunk device is 192.168.10.251, and the default IP address of the slave (airborne) device is 192.168.10.252. The alternate IP addresses are 192.192.192.192.192. The default IP address is the one that can be used and modified by the user. The alternate IP, 192.192.192.192.192, cannot be modified. If you forget the IP address, you can use the standby IP address to log in to the WEB page for parameter query and configuration.

#### • Configure the network segment of the PC(192.168.10.xxx)

Open computer network connection and right-click properties. Open the TCP/IPv4 properties as shown in the following figure. Click Advanced, add IP, computer IP can add multiple IP at the same time. The same computer can work in different network segments. For example, add IP address 192.168.10.123 and IP address 192.168.1.123 at the same time. Complete the PC IP configuration and click OK to save the configuration.

ou can get IP settings assigned	automatically if your network supports	IP addresses	
or the appropriate IP settings.	ed to ask your network administrator	IP address	Subnet mask
Obtain an IP address autom	atically	192.168.10.200	255.255.255.0
Use the following IP address	:	<	>
IP address:	192 . 168 . 10 . 200	Add	Edit Remove
Subnet mask:	255 . 255 . 255 . 0	Default gateways:	
Default gateway:	192 . 168 . 10 . 2	Gateway	Metric
Obtain DNS server address a	automatically	192.168.10.2	Automatic
Use the following DNS server	r addresses:		
Preferred DNS server:	114 . 114 . 114 . 114	Add	Edit Remove
Alternate DNS server:	114 . 114 . 114 . 115		
		Automatic metric	
Validate settings upon exit	Advanced	Interface metric:	

### **iVcan**.com 5.2 Web account and password

The default WEB address of the primary (ground unit) device is 192.168.10.250. The default Web input is 192.168.10.251 on the trunk (relay unit)device and 192.168.10.252 on the secondary (air unit) device.

Account:		
admin		
Password:		
•••••		
		Login

Account: admin; Password: 123456

### **iVcan**.com 5.3 System Settings

Settings				
System Settings Serial Settings		System Param	eters	
airing Settings	Operating Mode	Slave	$\sim$	
etwork Settings	Band Width	10MHz	$\checkmark$	
Status	Network Address(ID)	445566		
	TX Power(dBm)	33		
Vireless Status	AES	OFF	$\checkmark$	
Vireless Noise	AES Key	1234577		
erial Status		Wireless Paran	neters	
Advanced	MCS	Adaptive	$\sim$	
	APC	ON	$\checkmark$	
actory Settings	ANT	Adaptive	$\checkmark$	
oftware Update	Group Sync	ON	$\sim$	
Other		Frequency	у	
	○ Fixed:	1405MHz	$\mathbf{v}$	
Products Info	Adaptive:	<ul> <li>✓ 1355</li> <li>✓ 1365</li> <li>✓ 1415</li> <li>✓ 1425</li> <li>✓</li> </ul>	1375 ☑ 1385 1435 ☑ 1445	<ul> <li>✓ 1395</li> <li>✓ 1405</li> <li>✓ 1455</li> <li>✓ 1465</li> </ul>
				Setup

No.	Function	Instructions
1	Operation mode	Configure the device as the master or slave end
2	Band Width	Channel bandwidth: 10MHz
3	Network ID	Network ID number: The same ID number is used for the same
		group.
4	TX Power(dBm)	Up to 39dBm
5	AES	AES Encryption switch
6	AES Key	AES Secret key
7	MCS	Automatic stream control (optional adaptive mode or fixed mode)
8	APC	Automatic power control (optional on or off)
9	ANT	Automatic selection of two antennas (fixed antenna 1 or antenna 2)
10	Multiple sets coexist	Multiple sets of coexisting switches enable multiple sets of devices
		to be used simultaneously
11	Frequency	Automatic frequency selection (optional adaptive or fixed)

Multiple sets of coexistence: When the switch is turned on, a maximum of six pairs of devices can work at the same time, but they need to be used at a fixed frequency.

Frequency selection: Fixed frequency or adaptive frequency can be selected. The adaptive frequency points can be selected all, or you can select any of the frequency points to use.

### **iVcan**.com 5.4 Serial Settings

Settings ettings		Se	erial To Serial			
ring Settings	Remote Serial		Local Serial	Baud Rate		
Settings	Serial 1 V	<>	Serial 1	115200 🗸		
	Serial 2 🗸	<>	Serial 2	115200 🗸		
	Serial 3 🗸	<>	Serial 3	115200 🗸		
		Se	rial 4/5 Mode			
	Mode	SBUS 🗸	Baud	115200 ~		
		Serial To Ethernet				
	Protocol	TCPServer	~			
	Serial	Local Port	UDP Active Send IP	UDP Destination Po		
	Serial 1	3001	192.168.10.123	3001		
	Serial 2	3002	192.168.10.123	3002		
	Serial 3	3003		3003		
	Serial 4	3004		3004		
	Serial 5	3005		3005		
		SBU	S Port Mapping			
		(Va	lid On Slave Mode )			
	Master M	ode SBUS		Slave Mode SBUS		
	Serial 4(SBUS-	line15) 🗸	>	Serial 4(SBUS-line15		

The device has four serial ports, among which serial port 1 and serial port 2 are RS232 or TTL level, and serial port 3 is RS-422 interface. Serial port 4 is SBUS/TTL. When serial port 4 is configured with TTL, you can change its baud rate. The device supports the function of serial port to serial port and serial port to network port. At the same time, the status of the serial port can be viewed in real time to help customers determine whether the function of the serial port is normal.

#### 5.4.1 Serial-to-Serial

The mapping between the remote serial port and the local serial port can be flexibly configured. By default, remote serial port 1 is paired with local serial port 1, remote serial port 2 is paired with local serial port 2, and remote serial port 3 is paired with local serial port 3. You can also configure different mapping relationships based on your requirements, so that the local serial port can communicate with any remote serial port. The series-to-series function also supports asymmetric transmission of serial port

numbers, that is, the input of serial port 1 at the sky end and the output of serial port 2 or serial port 3 at the ground end. Sky serial port 2 Input. Output from serial port 1 or serial port 3 on the ground. Input from serial port 3 on the sky end and output from serial port 1 or 2 on the ground end.

Example 1: Input from serial port 1 on the sky (slave) and output from serial port 2 on the ground (master).

Serial To Serial			
Remote Serial		Local Serial	Baud Rate
Serial 1 🗸	<>	Serial 1	115200 🗸
Serial 1 🗸	<>	Serial 2	115200 🗸
Serial 3 🗸	<>	Serial 3	115200 🗸
Serial 4 Mode			
Mode	SBUS 🗸	Baud	115200 🗸
Serial To Ethernet			
Protocol	TCPServer	~	

Step 1: Open the terrestrial web page - Serial Port Settings bar

Step 2: Change serial port 2 in the second column to remote serial port 2< - > local serial port 2. Remote serial port 1< - > Local serial port 2. Indicates that the input of serial port 1 on the sky side corresponds to the ground. Output from serial port 2 of end. Change the baud rate of serial port 2 to be output.

Example 2: Input from serial port 1 on the sky (slave) and output from serial port 3 on the ground (master).

Serial To Serial					
Remote Serial		Local Serial	Baud Rate		
Serial 1 🗸	<>	Serial 1	115200 🗸		
Serial 2 🗸	<>	Serial 2	115200 🗸		
Serial 1 🗸	<>	Serial 3	115200 🗸		
	Serial 4 Mode				
Mode	SBUS 🗸	Baud	115200 🗸		
Serial To Ethernet					
Protocol	TCPServer	~			

Step 1: Open the terrestrial web page - Serial Port Settings bar

Step 2: Change serial port 3 in the third column to remote serial port 3< - > Local serial port

3 to remote serial port 1 < - > local serial port 3. Indicates that the input of serial port 1 at the sky end corresponds to the output of serial port 3 at the ground end. Change the baud rate of serial port 3 to be output.

#### 5.4.2 SBUS configuration

- Open the WEB of the Air Unit and click Serial Port Configuration on the left. (The configuration of the ground terminal is invalid)
- 2) Modify the mode to SBUS mode.
- Input PIN 15 corresponds to PIN15 output, and input PIN 14 corresponds to PIN14 output.

The SBUS configuration is valid only if the serial port configuration of the air terminal web is configured. The SBUS configuration of the ground unit is invalid. The module supports two-channel SBUS operation. And the 14 pins and 15 pins on the ground side are SBUS inputs. The 14-pin and 15-pin of the air terminal are both SBUS outputs. and the 14 pins of the air terminal correspond to the 14 pins of the ground terminal. The 15 pins of the air terminal correspond to the 15 pins of the ground terminal.

Settings
System Settings Serial Settings Pairing Settings Network Settings
Status
Wireless Status Wireless Noise Serial Status
Advanced
Factory Settings Software Update
Other
Products Info

Sellar to Sellar			
Remote Serial		Local Serial	Baud Rate
Serial 1 🗸	<>	Serial 1	115200 🗸
Serial 2 🗸	<>	Serial 2	115200 🗸
Serial 3 🗸	<>	Serial 3	115200 🗸
	Se	rial 4/5 Mode	
Mode	SBUS 🗸	Baud	115200 🗸
	Ser	ial To Ethernet	
Protocol	TCPServer	$\sim$	
Serial	Local Port	UDP Active Send IP	UDP Destination Port
Serial 1	3001	192.168.10.123	3001
Serial 2	3002	192.168.10.123	3002
Serial 3	3003		3003
Serial 4	3004		3004
Serial 5	3005		3005
	SBU	S Port Manning	
	(Va	lid On Slave Mode )	
	de CRUC		Slave Mode SBUS
Master Mo	ae SBUS	Serial 4(SBUS-line15) V	
Master Mo Serial 4(SBUS-I	ine15) V	>	Serial 4(SBUS-line15)

### **iVcan**.com 5.4.3. Series-to-network / Network-to- series

The function of serial switching, or network switching is mainly serial port input, network port output or network port input, serial port output, etc. The serial port on the sky end is configured as TCP or UDP for transmission. The following is an example of a Mission Planner ground station performing TCP/UDP protocol transmission.

Settings		Se	erial To Serial		
y Settings	Remote Serial		Local Serial	Baud Rate	
rk Settings	Serial 1 🗸	<>	Serial 1	115200	$\sim$
	Serial 2 🗸	<>	Serial 2	115200	$\sim$
Status	Serial 3 🗸	<>	Serial 3	115200	$\sim$
ss Status		S	erial 4 Mode		
ss Noise	Mode	SBUS 🗸	Baud	115200	$\sim$
tatus		Serial To Ethernet			
	Protocol	TCPServer	🗸 🔶 ste	p2	
vanced	Serial	Local Port	UDP Active Send IP	UDP Destination	n Por
/ Settings	Serial 1	3001	192.168.10.205	3001	
re Update	Serial 2	3002	192.168.10.205	3002	
	Serial 3	3003	192.168.10.205	3003	
ther	Sorial 4	3004	192 168 10 205	3004	

Settings	
System Settings	
Serial Settings	step1
Pairing Settings	
Network Settings	
Status	
Wireless Status	
Wireless Noise	
Serial Status	
Advanced	
Factory Settings	
Software Update	
Other	
Products Info	

#### Air unit Web Setting : UDP Mode

Serial To Serial				
Remote Serial		Local Serial	Baud Rate	
Serial 1 🗸	<>	Serial 1	115200 🗸	
Serial 2 🗸	<>	Serial 2	115200 🗸	
Serial 1 🗸	<>	Serial 3	115200 🗸	
Serial 4 Mode				
Mode	SBUS 🗸	Baud	115200 🗸	
Serial To Ethernet				
Protocol UDP 🗸 🔶 step2				
FIOLOCOI	UDP	• • Ju	-pz	
Serial	Local Port	UDP Active Send IP	UDP Destination Po	
Serial 1	Local Port 3001	UDP Active Send IP	UDP Destination Po 3001	
Serial 1 Serial 2	Local Port           3001           3002	UDP Active Send IP 192.168.10.xxx 192.168.10.205	UDP Destination Po 3001 3002	
Serial 1 Serial 2 Serial 3	Local Port           3001           3002           3003	UDP Active Send IP 192.168.10.xxx 192.168.10.205 192.168.10.205	UDP Destination Po 3001 3002 3003	

#### • MissionPlanner (TCP mode)

#### TCP configuration (Air serial port)

Step 1: Open the - Serial Settings bar of the sky side web page

Step 2: Change the serial-to-network protocol to TCP server

Step 3: Determine the port number. The default port number of serial port 1 is 3001, serial port 2 is 3002, and serial port 3 is 3003. Finally click the Settings button.

#### **MissionPlaner TCP configuration**

Step 1: Open the Mission Planner

Step 2: MP Select TCP mode, do not use the serial port baud rate, click the Connect button.
Enter host name/IP: 192.168.10.252(Default IP address of the sky end). Enter remote port: 3001 (serial port 1). 3002 (serial port 2); 3003 (Serial port 3).

### • MissionPlanner (UDP mode)

#### UDP configuration (Air serial port)

- Step 1: Open the Serial Settings bar of the sky side web page.
- Step 2: Change the serial-to-network protocol to UDP server.
- Step 3: Enter the active UDP IP address of the serial port. It is the IP address of the computer on which MP is installed.
- Step 4: Determine the UDP target port number. The default target port number of serial ports 1 to 4 is 3001-3004. You can also set the target port number to different ones based on customer requirements. Finally click the Settings button.

#### MissionPlaner UDP configuration

Step 1: Open the Mission Planner ground station

Step 2: MP select UDP mode, the serial port baud rate is not required, click the Connect button. Enter Local port: 3001 (serial port 1). 3002 (serial port 2); 3003 (Serial port 3).

### **iVcan**.com 5.5. Pairing Settings

Pairing Mode			
Hardware Pairing	Not Enabled V The corresponding serial port is invalid!		
Network Address(ID) Mode	Fixed         Valid in master mode		
	Setup		
	Software Pairing Mode		
Software Pairing	Start Pairing		

The pairing function can be realized by hardware configuration and software configuration. The ID number can be configured on the primary end to determine whether to use the random ID number or the fixed ID number of the original primary end for automatic pairing. This parameter is invalid for configuring ID mode on the secondary end.

#### Pairing premise:

The pair device can be paired only when it is a primary device and a secondary device. If both devices are primary devices or secondary devices, the pair cannot be paired.

#### Hardware pairing conditions:

- 1. Effective within 60 seconds after starting, invalid after 60 seconds.
- 2. Invalid in connected (synchronized) state.
- 3. The pairing mode has been entered once after startup, and it is invalid even if the time is still within 60s.

# Hardware pairing Settings: (The Air unit and the ground unit are configured independently)

- Web configuration: Select serial port 1 or serial port 2 or serial port 4 as the paired serial port.
- After the configuration, short connect the TX and RX of the corresponding serial port for at least 2 seconds. Customers can solder a switch button themselves by long pressing it for more than 2 seconds. TX and RX can also be looped together.
- If the RSSI indicator blinks and turns off, the device enters the pairing mode.
   Wait until the peer device also enters the pairing mode.

#### Software pairing Settings:

Click the "Start Pairing" button inside the page to start pairing. After 2 minutes, if the pairing fails, the device displays the status before the pairing again.

#### 5.6 IP configuration Network Settings

	Network Settings
IP Address	192.168.10.252
Alternate IP Address	192.192.192.192
Remote IP Address	192.168.10.250
	Setup

- The default local IP address of the primary node is 192.168.10.250.
- $\equiv$  The default local IP address of the repeator node is 192.168.10.251.
- $\Xi$  The default local IP address of the slave node is 192.168.10.252.
- 四、 The Alternate IP address is 192.192.192.192.(cannot be changed)

### **iVcan**.com 5.7 Wireless Status

ings					
Settings ettings		Wireless Status			
Settings	Operating Mode	Master	Status	Sync	
rk Settings	Frequency	1455MHz	Ranging	0.0KM	
tatus	Net Recv(Kb/s)	0	Net Send(Kb/s)	0	
	Local St	Local Status(Master)		Remote Status(Slave)	
Status	MCS	QPSK 3/4 (8.4Mbps)	MCS	QPSK 3/4 (8.4Mbps)	
Noise htus	TX Power(dBm)	-4	TX Power(dBm)	-8	
	ANT	ANT2	ANT	ANT1	
ced	RX1 RSSI	-54	RX1 RSSI	-50	
	RX2 RSSI	-42	RX2 RSSI	-58	
y Settings nre Update	RX1 SNR	29(27)	RX1 SNR	30	
	RX2 SNR	30(27)	RX2 SNR	29	
her	BER	0	BER	0	
	PER	0			
•				Clear	

Wireless status is mainly to display channel information, such as master and slave nodes, whether to synchronize, working frequency points, distance display and network data volume statistics. It also displays the status of the local device and some information about the remote device. For example, MCS (stream mode), transmit power, two-channel received energy, two-channel received signal-to-noise ratio and error packet PER display.

The distance display can only be displayed by the master. The detection of background noise is carried out when the master is powered on. The slave does not detect background noise before synchronization. The slave detects background noise only after synchronization.

The network transmission of the master indicates the amount of data sent by the master to the PC. The network reception of the slave indicates the amount of data received by the slave from the camera.

### **iVcan**.com 5.8 Wireless Noise

Background noise detection is mainly used to detect ambient interference of master and slave equipment. The red line represents the bottom noise at the primary end and the blue line represents the bottom noise at the secondary end. And the lower the absolute value, the cleaner the floor noise, that is, the smaller the interference source. For example, -100dBm is better than -90dBm. Floor noise detection can quickly help customers determine whether there is interference in the test environment.

#### Wireless Niose(Master) -O- Master Niose -O- Slave Niose dBn -60 -70 -80 -90 -100 -100 -110 <del>|</del> 1355 Frequency 1365 1385 1395 1405 1415 1425 1435 1445 1455

#### • Floor noise detection in clean environments

#### • Floor noise detection when there is interference



Factory Reset	
	Restore the factory settings?
	Factory Reset

The default factory Settings of the device are the secondary (airborne) parameters, and the default network IP address after factory restoration is 192.168.10.250.

### 5.10 Software Upgrade

File Selected
Undate

System update, for customers to update the firmware, click select file, select the corresponding burn file, after the successful upgrade, please power on again. Do not power off during the upgrade to avoid firmware loss.

### **iVcan.**com 5.11 Products Info

Products		
Product Type	S01A-B100-J39	
Serial Number	202310070001	
Hardware Version	169C-S01AB060J33S224	
Software Version	P240118V3	
Firmware Version	20240119vB100	
FAULT CODE	NO ERROR	

This section describes the serial number, software and hardware version number of the device.