HD-VWT8006 Vehicle-mounted wireless terminal User Manual



Yantai Huadong Electron Technology Co., Ltd.

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Preface

Dear customer,

Thank you for purchasing our product HD-VWT8006. Please read this manual carefully before using, and mind all notes and warnings mentioned in it. Please keep this manual properly for further reference.

This equipment should be placed onto a stable platform before using.

Please check voltage value before connecting line. The line should be put in a place that the line won't be trampled.

Please disconnect power before plugging in or pulling out any modules or connecting line.

Please keep the equipment dry. Any water inside may cause circuit break or other serious damage.

If any of the following happens, please contact the specialists:

Power cord damage, keyboard damage, or socket damage, water leakage;

The equipment can't work in normal or can't return to normal with the guidance of user manual.

The equipment can't work because of falling down or other

unexpected damage.

Obvious damage occurs in equipment.

1 Product Introduction

HD-VWT8006 is a voice and data integrated vehicle-mounted wireless terminal, with high-strength body design and strong shock resistance. It can be used in different conditions of environment, and satisfies the specific requirements of heavy vehicles used in port, warehouse and logistics.



2 Function Introduction

Graphical display and touch screen make the operation simpler. It is featured in easy and simple operation, anti-friction, long-life, high Yantai Huadong Elec-Tech Co., Ltd. www.huadong.net brightness.

Support Windows 7/Windows 10.

Support WIFI.

Support USB2.0, for better connection with other device.

It is full sealing aluminum design without fan, and reaches IP65 with good anti-shock, waterproof, and anti-dust performance, and is suitable for bad environments, such as terminal and yard, etc.

3 Product Features

3.1 Processor and memory

It adopts Intel Celeron N2807, with DDR3 4G memory.

3.2 Hard Disk

Built-in SSD 32G.

3.3 Display screen and touch screen

12.1" LCD, resolution: 1024x768, color: 16.2M/262K, brightness: 500cd/m2, contrast ratio: 700: 1. Resistance-type touch screen featured in firm and anti-friction performance. It is equipped with brightness adjustment button to adjust brightness.

3.4 Wireless communication

Support 802.11/b/g/n(20M).

2.4GHz Frequency Bands: 2412MHz-2462MHz

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www.huadong.net - 5 - Transmit Power ≤18dBm

The antenna of the product, under normal use condition is at least 4cm away from the body of the user.

2.4GHz Antenna characteristics

Frequency Range 2400-2483MHz Impedance 50Ohm Polarization Vertical Elevation Coverage 360° Gain of Antenna 5dBi

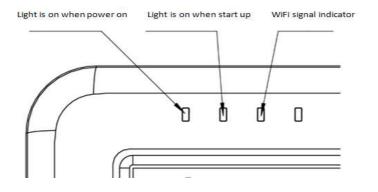
3.5 External Interface

2xUSB Host connecting mouse, keyboard or storage device.

RJ45 connecting Ethernet.

Power input 24V power supply.

4 Use Instructions



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4.1 Use environment

Temperature -20° C \sim 50° C; relative humidity 5 \sim 95% (non-condense).

4.2 Input power

Input power: DC24V.

4.3 Start-up, shut-down, and brightness

adjustment

To start the equipment, we only need to press power key for 1 second; when it breaks down, we needs to press power key for 6 seconds to shut it down.

Two brightness adjustment keys are placed above the power key. " \uparrow " is used for brightening brightness, while " \downarrow " is used for darkening brightness. We can see a successive change of brightness if we keep pressing the key for long.

4.4 Two-balls bracket installation

At first, use the screw to fix one end of bracket to the back of terminal, and then, fix the other end of bracket to appropriate position, and put the screw, turn-knob and nut into bracket arm as following picture, and finally adjust the angle and tighten the turn-knob.

4.5 Installation process of touch screen drive

4.5.1 Drive installation

At first, use mouse left to double-click ^(G) of PenMount Universal Driver2.1.0.207, to open installation interface, and then use mouse left to click "Next (N)".



Secondly, use mouse left to click "I Agree(I)" in the following interface.



Thirdly, use mouse left to click "Install(I)" in the following interface.

😯 PenMount Universal Driver 2.1.0.207 Setup	0
Choose Install Location Choose the folder in which to install PenMount Universal Driver 2, 1, 0, 207,	
Setup will install PenMount Universal Driver 2.1.0.207 in the following folder. different folder, click Browse and select another folder. Click Install to start t	
Destination Folder California Files/PenMount Universal Driver E	irowse
Space required: 3.2MB Space available: 39.8GB	
Nullsoft Install System v2:28 - Sack Install	Cancel

Fourthly, the drive will be installed automatically after enter into the following interface.

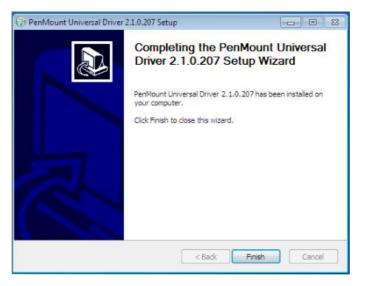
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🔀 PenMount Universal Driver 2.1.0.207 Setup	- I B S
Installing Please wait while PenMount Universal Driver 2.1.0.207 is being installed.	3
Execute: "C: \Program Files\PenMount Universal Driver\INSTALL.exe"	
Show (Pen	_
Nullsoft Install System v2.28	
<back next=""></back>	Cancel

Fifthly, use mouse left to click "Finish (F)" in the following

interface, which means the drive is installed successfully.



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4.5.2 Touch screen calibration

At first, use mouse to click "Start", and then click the "PenMount

Control Panel" to open the software.



Secondly, use mouse left to click the menu "Device" in following interface, and then click "Configure".



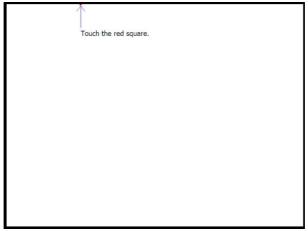
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Thirdly, use mouse left to click "Standard Calibration" in following interface.

Z Device 0 (PenMount 6000 USE	0	
Calibrate Setting About		
	G	
	Standard Calibration	
Turn off EEPROM storage.		
		OK]

Fourthly, follow the instruction to click "Red Square".



Fifthly, click "OK" in the following interface, which means the

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touch screen is corrected successfully.

Z Device 0 (PenMount 6000	USB)	
Calibrate Setting About		
l i		
	1	
	Standard <u>Calibration</u>	
Turn off EEPROM storag	P.	
+		[[]]
		U. OK

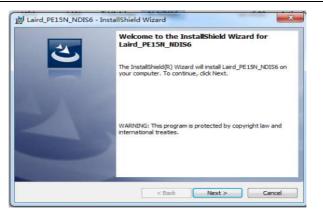
4.6 WIFI network card drive installation and

configuration

Please uninstall old version drive if there was one.

Click the new drive "Laird_PE15N_NDIS6" and click "NEXT" in popup window.





Click "NEXT".

	tion Folder	۸.,
CICK IVE	xt to install to this folder, or click change to install to a dimerent folder.	
P	Install Laird_PE15N_NDIS6 to:	
-	C:\Program Files\Laird\ Change	····
tallShield -		

Click "NEXT".

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Setup Type			4
Choose the s	etup type that best si	uits your needs.	
Please select	a setup type.		
Typical			
1	A typical set of pro	ogram features will be installed	
Custom			
1	Choose which prog will be installed. Re	ram features you want installe commended for advanced use	d and where they rs.
tallShield			
CONTRACTOR			ext > Cancel

Click "Install".

Ready to Install the Program			
The wizard is ready to begin installa	ation.		C
Click Install to begin the installation	٦.		
If you want to review or change ar exit the wizard.	ny of your installation	settings, dick Back. C	lick Cancel to

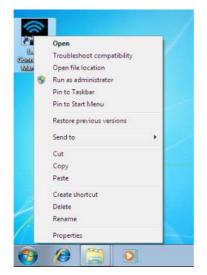
Click "Finish".

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Select "Laird Connection Manager", and use mouse right to open "properties".



Select "Run this program as an administrator" in "compatibility" and click "ok" (this program must run as administrator"). Yantai Huadong Elec-Tech Co., Ltd. www.huadong.net

Securty	Details	1	hevious Versia
General	Shortou	t II	Compatibili
f you have probler in earlier version o natches that earlie Help me choose Compatibility mot	f Windows, selec ir version the settings	am and it w it the comp	orked correctly atibility mode th
		10 1.302	
The second second second	igram in compaté	vity mode f	917
Windows XP (Senice Pack 31		1.17
Settinge			
10 Run in 256	colors		
Run in 640	x 480 screen res	olution	
Deable visu	al themes		
Disable deel	ktop composition		
Disable dap	itay scaling on his	th DP) setti	nga l
Privilege Level			
🕑 Run this pro	igram as ari admi	ristrator	
Change set	tings for el users		
	ОК	Can	al A

Open "Laird Connection Manager".



Click "Scan" in "Configuration" to scan wireless network.

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	iagnostics
V Wi-Fi	ird
Active Profile:	Default 👻

Select SSID to be used and click "Configure".

SSID	RSSI	Security	
hd002	-59	WPA AES PSK	
8006TEST	-36	None	
aabbcc	-43	WPA2 PSK	
7101test	-51	WPA2 PSK	
4 [11	t	- F

There is a pop-up window, input password "SUMMIT", and then click "OK" (don't press Enter key).

SSID	RSSI	Secu	rity	
Admin Login	162	-	401.75	×
Enter Passwo	ord to co	onfigu	re.	
	•			
Ca	ncel		OK	

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www.huadong.net - 18 - Click "yes" to enter into "Manage Profiles".



Select SSID in the pull-down menu of "Profile", and configure the "Profile" and "Globals".

Profile	Globals	Admin Login		
Proper	ty	Value	*	Profile: Default
Profile	e Name	Default	Е	Default 8006TEST
SSID			_	100001251
Client	Nane			Value:
Tz Powe	ir	Maacimaan		Commit
Power S	Save			

Click "Passphrase" in "Profile" interface, and input password.

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ofile Global	s Admin Login		
Property	Value	-	Profile: 8006TEST
WPA	WPA/WPA2		
Encryption	AES-CCMP		New Delete
Authentication	. PSK	h	Passphrase
Fast Reauth	None	Е	Commit

Click "Commit" after inputting password, and close this window.

Profile Globals	Admin Login		
Property	Value		Profile:
WPA	WPA/WPA2		8006TEST
***	in the int the		New Delete
Encryption	AES-CCMP		<u> </u>
	1999		Passphrase .
Authentication	PSK		12345678
Fast Reauth	None	H	Commi
Passphrase	****		

Back to "Configuration" interface, and select SSID in pull-down menu of "ActiveProfile".



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www.huadong.net - 20 - Check whether network is connected via "Status" interface.

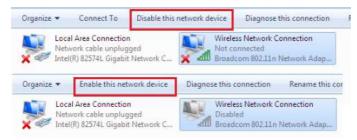


Click "Advanced" in "Diagnostics" interface to check detailed network information.

Status Configuration Di	rd -	>
Wi-Fi Status: Connected	i to 8006TEST	
	About	Advanced
agnostics		×
		X
		X
Wifi Status	AP Hame:	
WifiStatus	10/01/20	•
Nifi Status Profile: 8006TEST	IP:	•
Fifi Status Profile: 8008TEST IP: 192.168.1.100	IP:	•
Wifi Status Profile: 8008TEST IP: 192.168.1.100 MAC: 00.17.23.fl.80.70	IP:	4. 5f. 80. 32. 4
Fifi Status Profile: 8008TEST IP: 192.168.1.100 MAC: 00.17.23.fl.80.70 Channel: 6	IP: D MAC: 50.6	4. 5f. 80. 32. 4

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www.huadong.net - 21 - If network is still not connected after configuration, please restart wireless card or terminal.



5 Troubleshooting

5.1 Unable to start up normally

You can check	Troubleshooting
Whether power cord	To plug power cord into the correct port
connection is correct.	and make sure connection is fastened and
	power supply is OK.
Whether it is able to	To ensure the equipment start up in the
start up and work in	proper temperature, and don't start it
the environment with	immediately when it is just moved from
temperature between -	outside to indoor. For such circumstance,
20°C~50°C.	please wait for about 2 hours in normal
	temperature before starting.

5.2 Abnormal network connection, and unable

You can check		Troubleshooting	
1.	Whether 5db antenna is in	1.	To replace TNC line or
	short circuit or open circuit.		feeder line.
2.	Whether network drive	2.	To re-install network card
	installation and setting is		drive.
	correct.	3.	To correct IP and
3.	Whether IP settings and		wireless network
	network parameter settings are		parameters.
	correct.		

to realize communication

6 FCC Warning

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 Yantai Huadong Elec-Tech Co., Ltd.

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.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

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