

Basic User Manual KS-60 USB WiFi Antenna



1. Introduction

Thank you for purchasing the Scout KS-60 USB WiFi antenna, a professional marine antenna with 100% waterproof technology (learn more on **www.scoutantenne.com**). The KS-60 is specifically designed for the marine environment and for outdoor installation, to allow long range WiFi connectivity for any computer with a USB port.

The KS-60 is compatible with the following operating systems:

- Microsoft Windows XP, Windows Vista, Windows 7 and Windows 8
- Apple Mac OS X 10.4, 10.5, 10.6, 10.7 and 10.8

Attention: do not plug in the KS-60 to the USB port of your computer before you have installed the drivers.

2. Installing the KS-60 on Windows

To operate the KS-60 on Windows you need first to download the drivers and the Realtek Wireless Lan Utility, following the steps below.



If the operative system installed on your computer is Windows Vista, Windows 7 or Windows 8 and you are connected to the internet you can skip the following procedure and directly plug in the KS-60 to the USB port, it will detect the driver automatically and start the download.

Step 1 - go to www.scoutantenne.com > Products > WiFi Antennas > KS-60 and select the Windows driver from the driver list (Figure 1).

	_	
Specifiche tecniche		Download
Bus Type	USB Version 2.0	Desis Lleas Manuel
USB Cable Length	5 m	Basic Oser Manuar
IEEE Protocol	802.11b/g/n	
Operating Frequency	2400 to 2484 MHz	► Driver
Data Rate	Up to 300 Mbps	Windows XP / Vista / Win7 / Win8
Operating Power	5.0V (USB Only)	MAC OSX 10.4
Gain	12 dB	MAC OSX 10.5
Security	WPA, WPA2	MAC OSX 10.6
Height	1,2 m	MAC OSX 10.7

Figure 1

Step 2 - save the file to your desktop and open it, then launch the Setup.exe (Figure 2).

nganize + 🔟 Open Si	nare with + burn New folder				3== *	
Favorites	Name	Date modified	Type	Size		
🧮 Desktop	👪 DATA	07/11/2012 23:10	File folder			
〕 Downloads	🕌 EAP	07/11/2012 23:10	File folder			
🔛 Recent Places	🔉 IM	07/11/2012 23:10	File folder			
💝 Dropbox	🎉 Release notes	07/11/2012 23:10	File folder			
	RTWLANU_Driver	07/11/2012 23:10	File folder			
🗃 Libraries	🚳 _Setup.dll	10/05/2008 14:27	Application extens	326 KB		
Documents	🔚 data1	07/11/2012 17:55	Archivio WinRAR	8.416 KB		
👌 Music	🗟 data1	07/11/2012 17:55	HDR File	63 KB		
E Pictures	🔚 data2	07/11/2012 17:55	Archivio WinRAR	16.442 KB		
😸 Videos	🚳 Install	07/11/2011 11:32	Windows Batch File	1 KB		
	isConfig	05/03/2015 10:06	Configuration sett	6 KB		
🍕 Homegroup	ISLangUni	02/02/2012 21:41	Configuration sett	86 KB		
	ISSetup.dll	11/09/2008 19:26	Application extens	543 KB		
Computer	layout.bin	07/11/2012 17:55	BIN File	1 KB		
🏜 Local Disk (C:)	Setup	10/11/2010 16:46	Application	391 KB		
👝 Local Disk (D:)	😹 setup	07/11/2011 11:32	Icon	2 KB		
🖵 meropew (\\User2) (Z:)	Setup	26/09/2012 10:45	Configuration sett	1 KB		
	💼 setup	07/11/2012 17:55	InDesign XML Inte	357 KB		
📮 Network	setup.iss	07/11/2011 11:32	ISS File	1 KB		
	🚳 UnInstall	07/11/2011 11:32	Windows Batch File	1 KB		
	Uninstall.iss	07/11/2011 11:32	ISS File	1 KB		

Step 3 - press "Next" to start the installation process, that takes only few seconds. When the installation is finished you need to Restart the computer (Figure 5).

23

Cancel

REALTEK USB Wireless LAN Driver and Utility	REALTEK USB Wireless LAN Driver and Utility
REALTEK USB Wireless LAN Driver and Utility The InstallShield Wizard will install REALTEK USB Wireless LAN Driver and Utility on your computer. To continue, click Next.	y REALTEK USB Wireless LAN Driver and Utility is configuring your new software installation Installing C:VPROGRA~2\REALTEK\USBWIR~1\ReStart.exe InstallShield InstallShield Cancel
Figure 3	Figure 4
REALTEK USB Wireless LAN Driver and Utility	
InstallShield Wizard Complete The InstallShield Wizard has successfully installed REALT USB Wireless LAN Driver and Utility. Before you can use program, you must restart your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.	EK the

Figure 5

< Back

Finish Cancel

Step 4 - once the computer has fully rebooted, plug in the KS-60 to the USB port. A pop up window will inform you that the device driver software is going to be installed (Figure 6). When the installation is completed another pop up window informs you that the device driver software has been installed successfully (Figure 7). The KS-60 is now ready to use.

Installing device driver software * × Click here for status.	Realtek RTL8188CU Wireless LAN 802.11n USB 2.0 Network Adapter 🔌 🗙 Device driver software installed successfully.
□ □ □ □ □ □ □ □ □ □ 12:27 □ □ □ □ □ □ □ □ □ □ 05/03/2015	T - 😼 🖻 🗐 🕼
Figure 6	Figure 7

3. Operating the KS-60 on Windows

To operate the KS-60 on Windows you can use either the Windows Wireless Connection Manager (Figure 8) or the Realtek Wireless LAN Utility, which you downloaded together with the driver (Figure 9). Both options are fine, just consider that the Realtek Wireless LAN Utility offers more features than the tool supplied by Windows.



Attention: to avoid confusion with using the KS-60 is always better to disable the internal wireless adaptor on your laptop. You can do it through the Network and Internet functions of the Control Panel (Figure 10).



Figure 10

Operating the KS-60 with the Windows Wireless Connection Manager

Click on the Wireless Networks icon in the task bar and a list of available wireless networks will be displayed. Your laptops internal wireless adaptor is usually named "Wireless Network Connection" and he KS-60 will automatically be named "Wireless Network Connection 2" or possibly another number if other adaptors have been used previously.

It is always a good idea to rename this connection by going in to the "Network and Sharing Center" and change its name to something more meaningful (for example "KS-60"), so that you can be certain of which wireless adaptor you are using (Figure 11).

Select the network you would like to connect by clicking on it. If the network lists an encryption type or Network authentication you will need a network key or password to gain access.



Operating the KS-60 with the Realtek Wireless LAN Utility

To connect to a wireless network you must run the "Realtek USB Wireless LAN Utility" from your desktop icon (Figure 9) or Program Folder in the Start Menu. You must have your KS-60 connected to your PC's USB port to open the utility. The utility will not open if it does not detect the antenna.

The screen that will appear when the utility has been opened is the one displayed in Figure 12, which shows that you are not connected to a wireless network. To begin, select the "Available Network" tab and select the network you would like to connect by double clicking on it (Figure 13).

🞇 REALTEK USB Wireless L	AN Utility		🕱 REALTEK USB Wireless LA	N Utility					×
Refresh(R) Mode(M) Al	bout(A)		Refresh(R) Mode(M) Abo	out(A)					
B- VyComputer	General Profile Available Network Status Wi-Fi Protect Setup		B- 💡 MyComputer	General Profile Available Net	work Status Wi-Fi Prote	ct Setup			
Realtek RTL818	Status: Not Associated		Realtek RTL818	Available Network(s)					
	Speed: N/A			CCID	Channel Encountion	Natwork Authoptication	Cignal T	100	DC.
	Type: N/A			19) WIND WIEL0657	1 TKID/AES	WPA Pre-Shared Key	48% Tr	frastructure	24
	Encryption: N/A			1° 101	6 TKIP	WPA Pre-Shared Key/	62% Ir	frastructure	00
	SSID:			PASTWEB-1-YKfI	11 TKIP	WPA Pre-Shared Key	100% Ir	nfrastructure	64
	Signal Strength:			P Telecom-74828777	11 TKIP/AES	WPA Pre-Shared Key/	44% Ir	nfrastructure	00
	Link Quality:			A WGCN	12 TKIP	WPA Pre-Shared Key	10% 1	Indstructure	00
	Network Address:								
	MAC Address: 5C:F3:70:14:95:3E								
				•	m				•
						<u></u>			
					Refresh	Add to Profil	е		
	ReNew IP			Note					
				Double click on item	to join/create profile.				
<	<u></u>		<						
Show Tray Icon	Disable Adapter	Close	Show Tray Icon		Disable Adapter			Clo	se
Radio Off			Radio Off		virtual wiri allowed				

Figure 12



If the network lists an encryption type or Network authentication you will need a network key or password to gain access. If "None" is listed, you can connect without providing a password (Figure 14).

If you click on the "General" tab you will see the window shown in Figure 15 which gives the wireless connection status.

REALTEK USB Wireless	LAN Utility			🧱 REALTEK USB Wireless L	AN Utility	
Refresh(R) Mode(M) A	About(A)			Refresh(R) Mode(M) At	bout(A)	
B- 😼 MyComputer	General Pro	Ne Available Network Status Wi-Fi Protect Setup		B- 🖁 MyComputer	General Profile Available Network Status Wi-Fi Protect Setup	
Realtek RTL818	Anaibhla	~		Realtek RTL818	Status: Associated	
	Available	Wireless Network Properties:			Speed: Tx:54 Mbps Rx:54 Mbps	
	Profile I	This is a computer-to-computer (ad hoc) network; wireless	Add		Type: Infrastructure	
		access points are not used.			Encryption: TKIP	
		Profile Name: FASTWEB-1-YIKfIY1wASgn	Remove		SSID: FASTWEB-1-YIKfIY1wASgn	
		Network Name(SSID): FASTWEB-1-YIKfIY1wASgn			Signal Strength:	98%
		Channel: 11/2462MHz) =	Edit		Link Quality:	100%
		Wireless network security				_
		This network requires a key for the following:	Duplicate			
		Network Authentication: WPA-PSK -			National Address	
		Data encryption: TKIP 💌	Set Default		MAC Address: 5C:E3:70:14:95:3E	
		ASCII PASSPHKASE				
		Key index (advanced): 1 v				
		Network key:				
	1	Confirm network key:				
		OK Cancel				
					ReNew IP	
+ <u> </u>	I			<		
Show Tray Icon		Disable Adapter Mittual WiFi allowed	Close	Show Tray Icon	Disable Adapter	Close
				Radio Off	Virtual WiFi allowed	
		Figure 14			Figure 15	

At this point, you should be connected to the selected network and be able to access the network's resources (i.e. internet, printers, other network devices).

3. Installing the KS-60 on a Mac

To operate the KS-60 on a Mac you need first to download the drivers and the Realtek Wireless Lan Utility, following the steps below.

Step 1 - go to www.scoutantenne.com > Products > WiFi Antennas > KS-60 and select the Mac driver from the driver list (Figure 16).

Specifiche tecniche		Download
Bus Type	USB Version 2.0	Desis Llass Manuel
USB Cable Length	5 m	Basic User Manual
IEEE Protocol	802.11b/g/n	
Operating Frequency	2400 to 2484 MHz	Driver
Data Rate	Up to 300 Mbps	Windows XP / Vista / Win7 / Win8
Operating Power	5.0V (USB Only)	MAC OSX 10.4
Gain	12 dB	MAC OSX 10.5
Security	WPA, WPA2	MAC OSX 10.6
Height	1,2 m	MAC OSX 10.7
Weight	0,50 kilo	MAC OSX 10.8
Weight	0,50 kilo	MAC OSX 10.8

Figure 16

Step 2 - save the file to your desktop and open it, then double click on the Installer.pkg. Follow the installation instructions as shown in Figure 17 and Figure 18.



Once the installation is completed Figure 19 will appear. Restart the computer (Figure 19).



Step 3 - once the Mac has restarted, plug the KS-60 in to the USB port and two things will happen. A new icon will appear in the Dock (Figure 20), a new application will open and a window will be displayed (Figure 21) - this is the Realtek Wireless Network Utility.



Figure 20

Link Status	Profiles	Available Netwo	rk Advanced Setting	WPS	Information
MAC	Address :	5cf37014953e			
	SSID :				
	BSSID :				
	Security :	None			
Cor	nnection :	Disconnected			
Netwo	ork Type :				
	Channel :				
Link Spee	d(Mbps) :	TX RX			
	HT Info :				
Signal	Strength :				0%
				Turn	Radio OFF



Step 4 - turn off your internal Airport wireless adaptor, then click on the Available Networks tab to display a list of the wireless networks or wireless hotspots within range of your KS-60. If the network lists an encryption type or Network authentication you will need a network key or password to gain access. If "None" is listed, you can connect without providing a password (Figure 22). To connect to a network, select the network and click "Connect".

Link Statu	us Profiles Ava	ilable Net	work Advanced	Setting WPS	Informatio
Associated	SSID	Channel	Network Type	Encryption	BSSID
	Alice-55061361	1	Infrastructure	WPA2-PSK TKIP	0025531724a8
	wi-fiTech	6	Infrastructure	WPA2-PSK AES	7cd1c3cdf3b0
	pippo	11	Infrastructure	WPA(2)-PSK AES	0014c1189870
	CONAD	11	Infrastructure	WPA-PSK TKIP	001b11c0eac3
	FASTWEB-1-2Jg2M	1	Infrastructure	WPA(2)-PSK AES	8426152fb492
	TP-LINK	2	Infrastructure	WPA2-PSK AES	a0f3c13de002
	Vodafone-21237379	1	Infrastructure	WPA2-PSK AES	002489c0ace6
	InfostradaWiFi-f80	1	Infrastructure	WPA(2)-PSK AES	84c9b2f8065d
	Refres	h	Connect) Add t	o Profile

Figure 22

Profile Name :
SSID : wi-fiTech
This is a computer-to-computer (AdHoc) network; wireless access points are not used.
Channel : 1 🛟
Wireless Network Security Properties
This network requires a key for the following :
Network Authentication : WPA2_PSK
Data Encryption : AES
ASCII
Key index (advanced) : 1 *
Network key :
Confirm network key :
Cancel OK
Please enter Key strings before clicking on [OK] to connect ==>

Wireless Network Security Properties

Figure 23

The first time your KS-60 connects to any given wireless network, you will need to create a profile that saves the settings (SSID, Network Name, Network Key). If the network requires a password, you will enter it in the "Network Key" field and confirm below. Click "OK" when finished to connect (Figure 23).

At this point, you should be connected to the selected network and be able to access the network's resources (i.e. internet, printers, other network devices) (Figure 24).

Link Status	Profiles	Available Network	Advanced Setting	WPS	Information
MAC Ac	ldress :	Scf37014953e			
	SSID :	wi-fiTech			
	BSSID :	7cd1c3cdf3b0			
Se	curity :	WPA2-PSK AES			
Conne	ection :	Connected			
Network	Type :	Infrastructure			
Ch	annel :	6			
Link Speed(Mbps) :	TX 58 RX 58			
н	T Info :	BW:20MHz GI:shor	t MCS:5		
Signal Str	ength :			* * *	100%
				_	