

# 3DSP-WiFi-Radar User Manual

## Introduction

### Welcome

This help manual documents the 3DSP® 3dsp-wifi-radar, version 0.2.7. Please e-mail any questions you have to the following address:

[help@3dsp.com](mailto:help@3dsp.com)

We will try to respond to inquiries within one to two business days.

If you have any comments or suggestions, please e-mail them to:

[support@3dsp.com](mailto:support@3dsp.com)

For the latest information, check out our home page:

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Get all the latest information about 3DSP products in a single monthly e-mail newsletter. Every issue keeps you up to date on the latest product releases and provides valuable tips on using our chips and software to enjoy your network.

Thank you! The 3DSP WiFi Radar Product Team



## Major Features

- ✓ **Full Graphic User Interface**  
No need to edit any text configuration file, very friendly user interface for easy using. It is convenient to view all wireless network status (network SSID, working mode, signal strength, etc), and configure IP address or DNS.
- ✓ **Supporting WEP, WPA/RSN(WPA2) Encryption**  
The [Key Dialog](#) will prompt the encryption mode AP using when connecting to an encrypted AP. There is no need to input keys again if connect to the same AP using encryption NOT the

first time, because 3DSP WiFi Radar is able to remember keys using before, and it's very convenient to change keys in user interface.

- ✓ **Supporting IBSS(only support WEP encryption)**

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# Getting Started

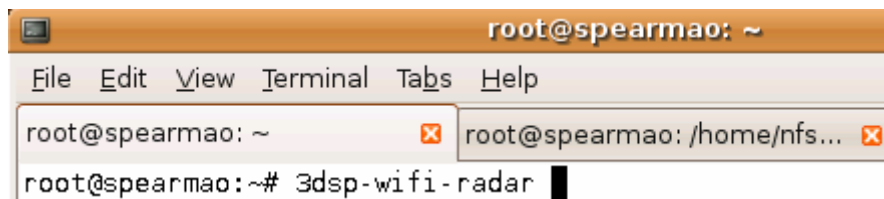
## Start 3DSP WiFi Radar

Click system menu “Applications” on top slider bar of Desktop, select “Accessories”, and “3DSP WiFi Radar” to run **3DSP WiFi Radar**.



### OR

you can run 3DSP WiFi Radar on X-terminal, just input “3dsp-wifi-radar” in terminal:



## Overview of User Interface

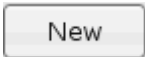


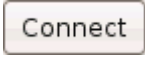
### Main Window



When you start 3DSP WiFi Radar, you will see the 3DSP WiFi Radar main window as blow:



The Main Window (shown above) allows you to view all wireless networks status and connect to one of them easily. You can also create, configure or delete profile for each wireless network at your convenience.

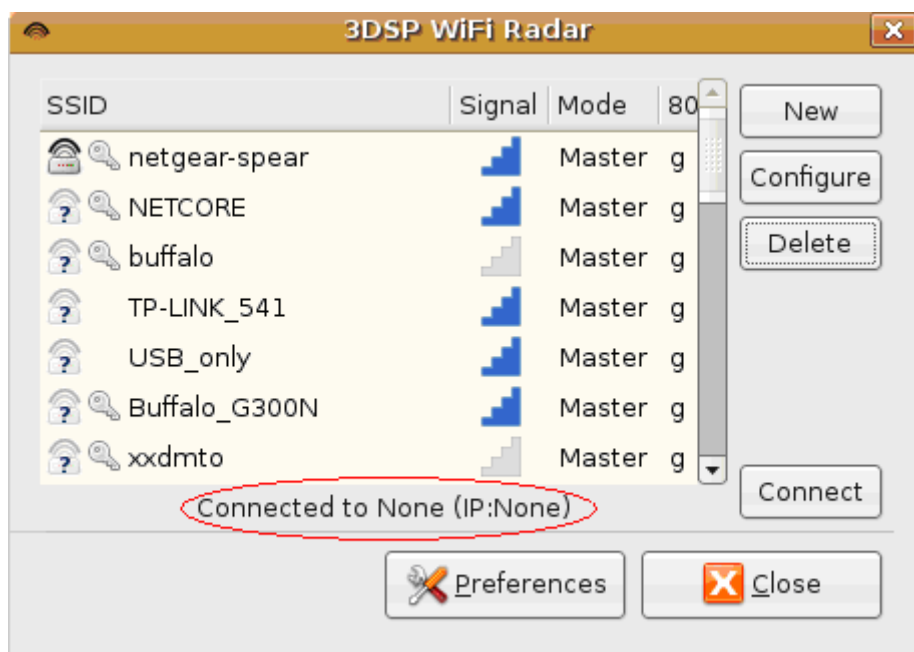
The Main Window provides several buttons to the following actions:

Button	Description
	New ( <b>Profile Dialog</b> ): Create new profile of a network ( BSS or IBSS )
	Configure( <b>Profile Dialog</b> ): Edit profile and display the current settings of wireless network
	Delete ( <b>Profile Dialog</b> ): Delete profile
	Connect: Connect to the selected Wireless Network


 Preferences	Preferences( <b>Preference Dialog</b> ): Set global settings
 Close	Close: Minimize the WiFi Radar main window to system tray.

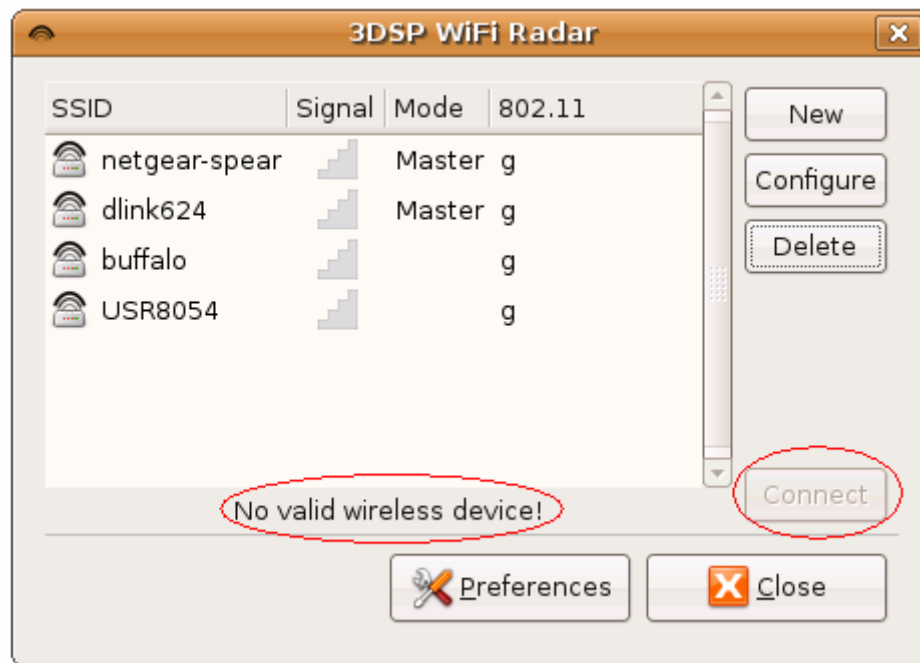
## Status Bar

The main window also contains a status bar as blow:



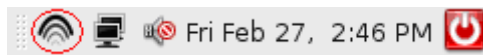
The status bar shows the current wireless status(which network is connected) and the current IP address.

**Note:** If starting 3DSP WiFi Radar without 3DSP wireless card or without loading 3DSP wireless card driver, the status bar will show message “**No valid wireless device!**” and the “” button would be disabled, and main window would only show the networks which we had created a profile only, with empty signal.



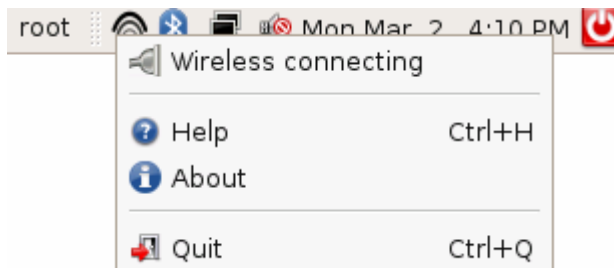
## System Tray

After 3DSP WiFi Radar is started, a small icon would be added to system tray on top-right of desktop as blow:



The 3DSP WiFi Radar tray would shows wireless interface name and the current connecting status. if move mouse on it and stay a little moment.

Right click the small icon, menu shown as blow would pop up:



Click menu "Wireless connecting", [Main Window](#) would popup on top of desktop.

Click menu "Help", 3dsp help document would be showed.

Click menu "About", [About Dialog](#) would be showed.

Click menu "Quit", 3DSP WiFi Radar would be terminated.

If click “” button on [Main Window](#), main window will disappear, but 3DSP WiFi Radar is still running. Click menu “” to show main window again.

## Quit 3DSP WiFi Radar

Right click 3DSP WiFi Radar icon on [System Tray](#) and click menu “” ,3DSP WiFi Radar will be terminated.

# Using the Software

## Getting to Know the Windows

### Main Window

3DSP WiFi Radar main window displays the list of networks it had searched and update their information at intervals.



The meaning of sections of each row in main window is demonstrated in the image below:




#### Profile Icon

Icon in first column is “?” it means that the wireless network(which SSID is displayed in second column) has no corresponding profile.


Select that line in main window, click “Configure” button or click “Connect” button, [Profile Dialog](#) will pop up, profile dialog allows you configure a profile for an wireless network.



After creating a profile, the icon in first column would be changed to “”, that means the wireless network has been configured and has a profile. Please refer to the following image:



### Encryption Icon

If the wireless network use encryption(WEP,WPA orWPA2 (RSN) ), a small key icon “” will be displayed on column 2 of current wireless network. If connecting to wireless network using encryption, [Key Dialog](#) will popup, shows encryption mode of wireless network and prompt input security password.

### SSID

Column 3 displays SSID of current wireless network.


**NOTE:** If wireless network hides it's SSID, it would NOT be displayed in main window.

In this example, wireless network's SSID is “dlink624”.

### Signal Strength Icon

Column 4 displays signal strength of wireless network, there are five signal strength level:



If signal strength icon is: “”, it probably means this wireless network is power off.

All wireless networks signal strength are updated at intervals.

### Wireless Network Type

There are two wireless network types: “**Master**” and “**Ad-Hoc**”.

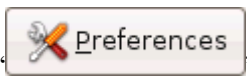
“Master” means wireless network is **Infrastructure BSS**, “BSS” for short. (In BSS, all communications between stations must be forward by access point). “Ad-Hoc” means wireless network is **Independent BSS**, IBSS for short (in IBSS, all stations could communicate to each other directly).

### Wireless Network Protocol

There are two wireless network protocol: “802.11b” and “802.11g”.

## Preference Dialog

Preference dialog allows you to set some global settings.

Click button “” on **Main Window**, the preference dialog will popup, shown as blow:

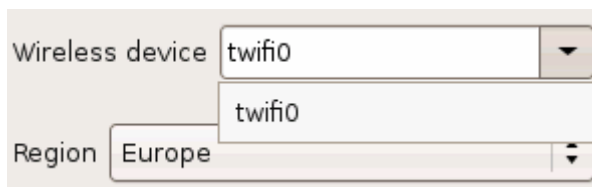


The **Preference Dialog** contains the following options:

1. ☐ Auto-detect wireless device

If select this option, Wireless device combo box will be disabled. It means 3DSP WiFi Radar will select wireless device automatically itself from it's detection.

If this option is unselected, you could select wireless device form combo box shown as below:

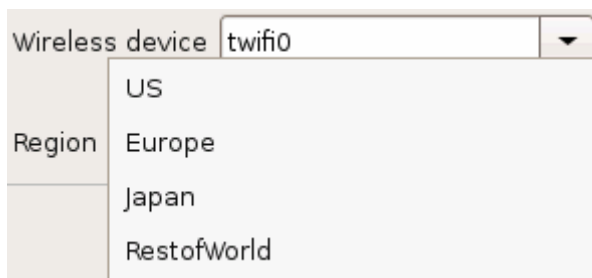


2. Select Region

You should select proper region form combo box shown as below, different region determines different channels when scanning wireless networks.



There is four category regions shown as below:

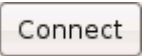


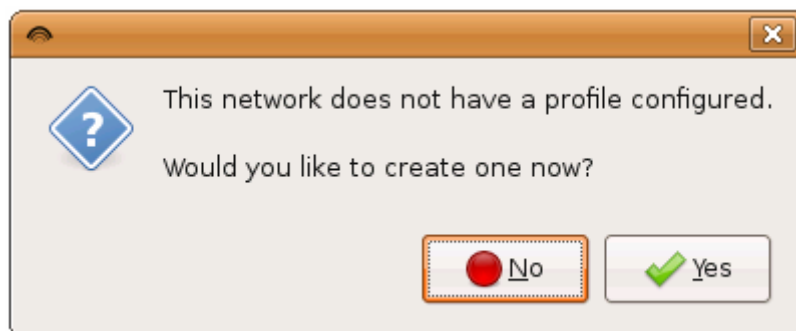
## Profile Dialog

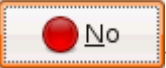
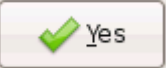
The Profile dialog (shown below) allows you to create a new profile or edit exist profile, the profile contains wireless settings for a specified AP.




### Create New Profile

Click “” button to connect to wireless network which has no profile, a message box would be shown to prompt creating profile for wireless network to be connected.:




Click “” to cancel creating profile and connecting, or click “”, profile dialog would be displayed.

The **Quick Connect** dialog can be also accessed by clicking on “” button on main window to create a new profile forwardly.


There are two situations to create new profile forwardly:

1. Starting an IBSS.
2. Create a profile for wireless network who hides it's SSID, then connect to it.

## Edit Profile

Select an network already configured (has corresponding profile), Click “” button on [Main Window](#) to edit profile.

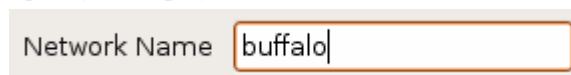
## Delete Profile

Select an network already configured (has corresponding profile), Click “” button on [Main Window](#) to delete profile.

The **Profile Connect** dialog contains the following options:

### 1. Network Name

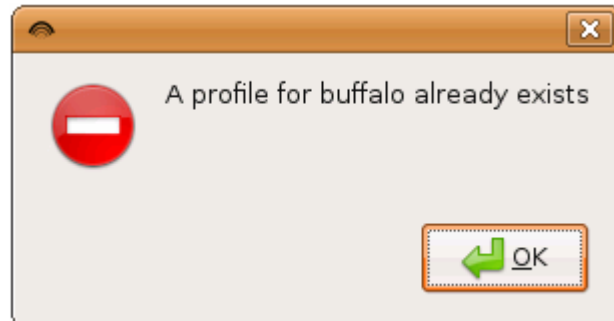
Specify or display SSID of wireless network



In picture shown above, SSID of wireless network is ”buffalo”.

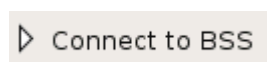
Note:

1. If create a new profile(starting IBSS or connecting to AP hiding it’s SSID),you could specify wireless network in text box in picture shown above. If configure a profile created before, the SSID displayed in text box is fixed, could not edit it.
2. Creating two profile with same SSID is NOT allowed, otherwise a warning message box would show up as below:






### 2. Network Type

Specify or display network type of wireless network



If **create a new profile**, the default network type is BSS as picture shown above, this profile can be used to connect to wireless network that hiding it’s SSID.

If create a new profile to star our own IBSS, click””, title after ”” will be changed to “Staring IBSS”, and ”” will be expended to show current network type and you can select channel number for IBSS network, This is demonstrated in the image below:



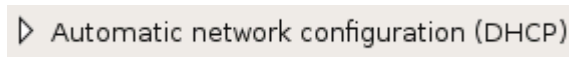
If **configure a profile**, click "▶", title would NOT changed. If network type is Master, the channel number is displayed in "Channel" combo box, but fixed. If network type is Ad-Hoc, channel number could be changed.

Note: the channel scope is limited by "Region" setting in [Preference Dialog](#).

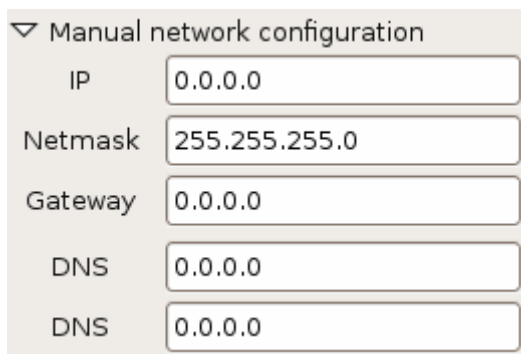
### 3. Network Configuration

This section is used to configure IP address and DNS.

Acquire IP address automatically from DHCP server by default, shown as below:



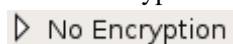
If use static IP address and DNS, click "▶", the user interface will be shown as below:



### 4. Encryption

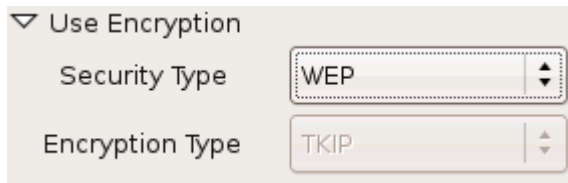
If create a new profile, you should determine using encryption or not. Encryption mode need to be specified if encryption is used.

Use no encryption is default setting shown as below:



If connect to wireless network that use encryption and hiding it's SSID or start an IBSS using

encryption, click”▶”, the user interface will be shown as below:



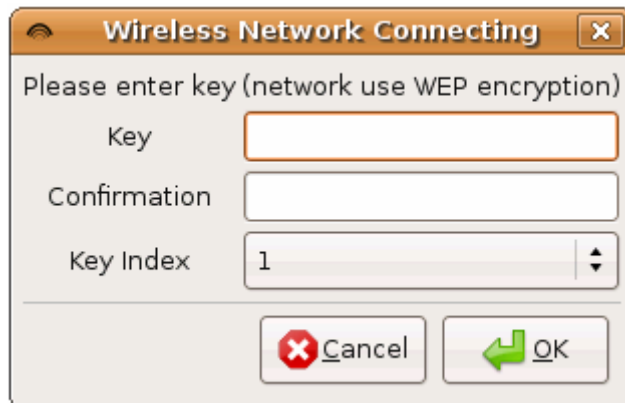
You can select security type and encryption type shown as below:



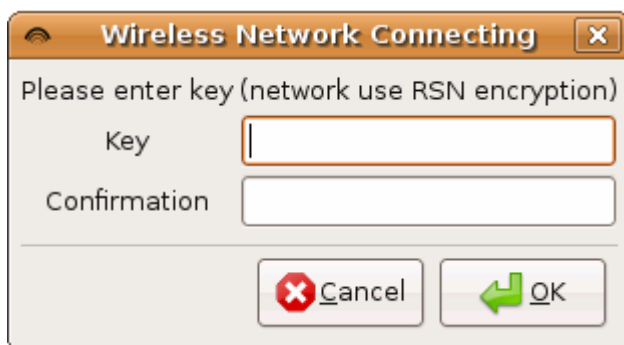

Note: Only WEP encryption is available when starting an IBSS.

## Key Dialog

When you connect to a wireless network using encryption, key dialog will pop up shown as below:

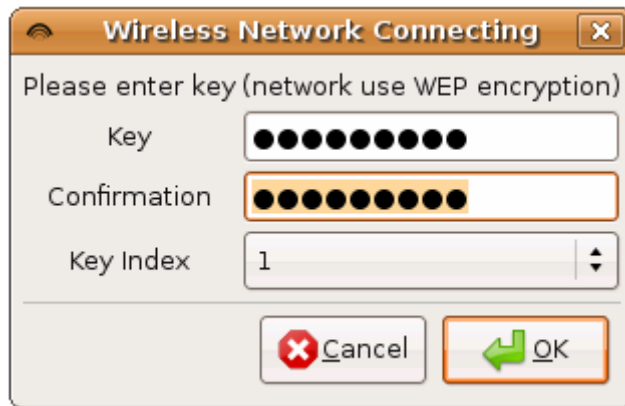


The first line of this dialog will prompt the current encryption mode of wireless network. In image shown above, wireless network uses WEP encryption. The image below shows the key dialog pops up when connecting to wireless network using RSN (WPA2) encryption:




If connect to wireless network using encryption first time, the "Key" text box is empty, input key and key confirmation and click button to connect to wireless network. If wireless network using WEP encryption, key index need to be specified, default key index is 1.

3DSP WiFi Radar is able to remember key if the same wireless network has been connected before and fill the key in "Key" text box automatically, this is demonstrated in the image below:



If you need to change key in “Key” text box, just activate Key text box by mouse or keyboard, key filled in text box will be cleared automatically to make you input key again for convenient.

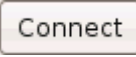
## About Dialog



Right click 3dsp wifi radar icon on [System Tray](#) and click menu “ About”, about dialog will pop up as below:





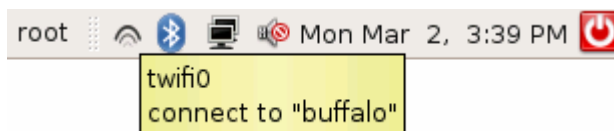
## Connect to Wireless Network

Select an wireless network in [Main Window](#), and click”  ” button to connect to it. If you haven’t create a profile for this network, [Profile Dialog](#) will be shown, connecting will be automatically started after saving the profile settings, if wireless network using encryption, [Key Dialog](#) will be shown up, key and key confirmation is required.


If successfully connected to wireless network, ”  ” button would changed to  ” button and the wireless network SSID and current IP will be show on status bar, such as picture below:



When connected, the small 3DSP WiFi Radar icon on system tray is flushing, and tips will be shown if move mouse onto wifi radar icon for seconds, such as the picture below.



## Disconnect from Wireless Network

Just click “” button to disconnect from wireless network..