



# ***WT-1/WT-1A Setup Guide***



## ***Infrastructure Setup for Windows XP Service Pack 2 or Later***

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First Edition

**[www.pixagent.com](http://www.pixagent.com)**



# Nikon WT-1/1A Transmitter Setup Guide for Windows XP SP2

This document provides step-by-step instructions on how to configure your Nikon WT-1/WT-1A wireless transmitter and computer to communicate with one another. Each step is provided with a screenshot to make the setup process as easy as possible.

## System Requirements

### Operating System:

Windows XP  
Service Pack 2 or later

### Software:

Pixagent ITP 2.0  
.NET Framework 1.1

### Hardware:

IEEE802.11b or IEEE802.11g Card  
Wireless Access Point/Router  
Nikon D2H/D2Hs/D2X  
Nikon WT-1/WT-1A

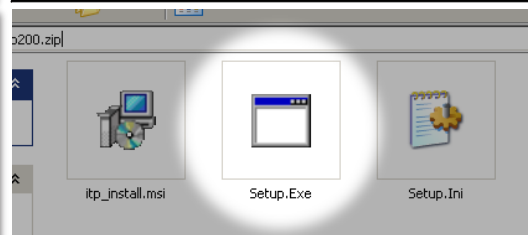
## Internet Links

<http://www.pixagent.com/itp20/>

<http://www.pixagent.com/support/>

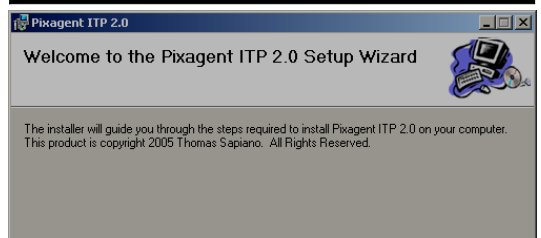
[support@pixagent.com](mailto:support@pixagent.com)

## Step 1



After downloading ITP 2.0 from the Pixagent website, open the compressed file and run 'Setup.Exe' to begin the install process.

## Step 2



Follow the directions in the installation wizard to place the ITP 2.0 files on your computer.

## Step 3



When prompted whether to allow anonymous logins, leave the checkbox empty and click the 'Continue...' button to move on.

## Step 4



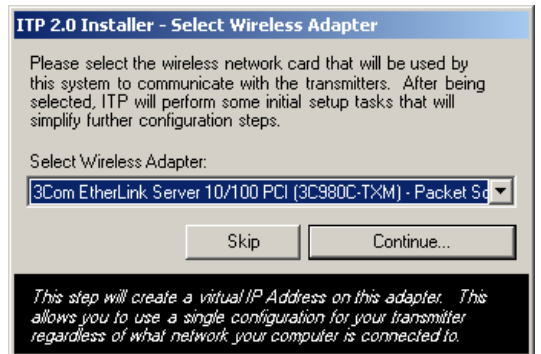
When the 'Create First User' window pops up, enter a new *username* and *password* pair and click the *Create User* button.

## Step 5



Select the location where you would like ITP to place the received image files on your computer. Click the 'Continue' button when you are done.

## Step 6



Select the network adapter that the wireless transmitter will use to communicate with your computer and click 'Continue'.

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### Step 7



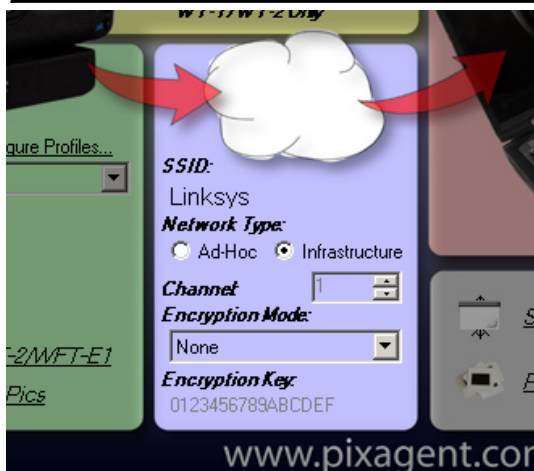
If the Windows Firewall is enabled on your computer, you will be prompted to continue blocking ITP. When this dialog pops up, select the *Unblock* button to allow ITP to receive connections from the camera. This is necessary for proper operation of your system.

### Step 8



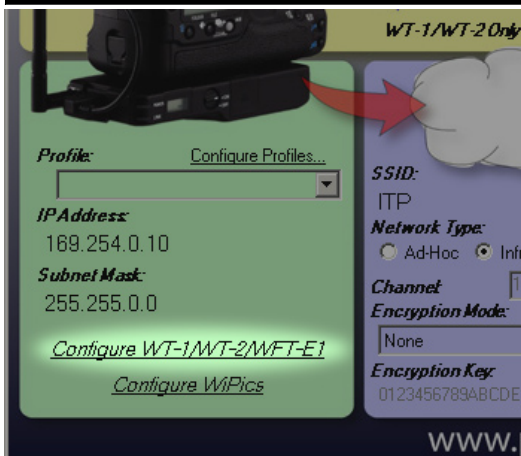
Now that the installation process is complete, ITP is now set up and operational on your computer. Your next task is to configure the camera so that it knows how to communicate with your computer. To begin this process, double click on the ITP tray icon (shown above) in order to launch the Control Centre interface.

### Step 9



Once the *Control Centre* interface comes up, enter the wireless settings that you are currently using in the blue section. Please refer to the settings used in your access point/router for the correct values.

### Step 10



Once the specified settings have been selected, click the *Configure WT-1/WT-2/WFT-E1* link to begin the process of configuring your camera. Follow the provided directions to load these settings onto a memory card.

## Firewalls

Firewalls are designed to protect computers from outside threats. One of the mechanisms used to do this is to block any connection that does not originate from the computer/network. For normal users this typically isn't a problem as the tasks they perform are initiated by the user.

These image transmitters work in a different manner, however. When an image is ready to be transmitted, the camera is the one that initiates the connection. As such, in their default configuration, most firewalls will attempt to prevent this action from taking place. When that happens, the camera will be unable to connect to your computer.

If you are using firewall software other than the one supplied with Windows XP you may need to perform additional steps. In order for the camera to function correctly, the firewall must be configured to allow incoming FTP traffic (TCP/IP port 21). The way that you do this depends on the firewall being used, so please read the instructions that came with it.

## Selecting your wireless network adapter.

During the installation process, you are prompted to select the network adapter used for your transmitter. Whenever ITP is started, it will automatically take steps to configure this adapter to operate with your transmitter. As such, if you switch to using another adapter you should change your selection in the 'Configure Adapter' entry in the ITP tray menu to ensure that these features continue to operate.



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### Preferred Networks

Windows XP wireless networking subsystem allows you to maintain a list of preferred networks. This list allows you to control the priority of different access points that you typically connect to. Once a network has been added to this list you can select it and move it up and down with respect to the other networks.

### FTP User Accounts

In order to connect to an FTP server, the camera must supply login information to identify itself. The installation process will create the first user for you, however if you would like you can create more users by clicking the *Add User* link in the *red* section of the *Control Centre*.

In addition to providing a basic layer of security, user accounts also allow you a greater degree of control. For instance, the files transmitted using each account are saved in different locations. This allows you to easily keep images from different cameras and/or shooters separate from one another.

### Step 11



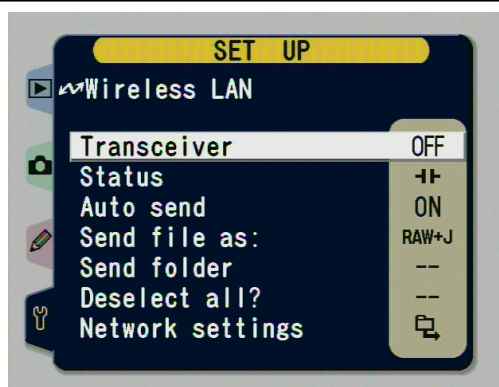
Remove the CF card from your computer and insert it into the camera with the WT-1 attached. Wait for the green light to go out, then press the *Menu* button. Navigate to the *Set Up* tab (the bottom tab) and continue on to the next step...

### Step 12



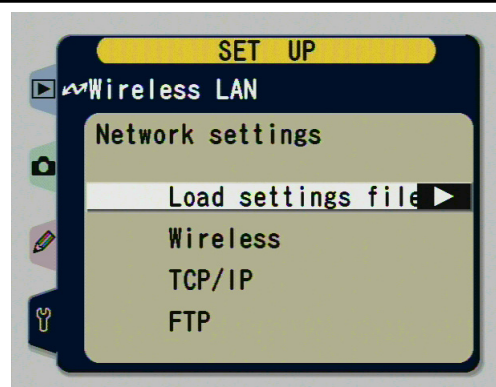
Select the *Wireless LAN* entry and press the controller pad right to configure the WT-1 transmitter.

### Step 13



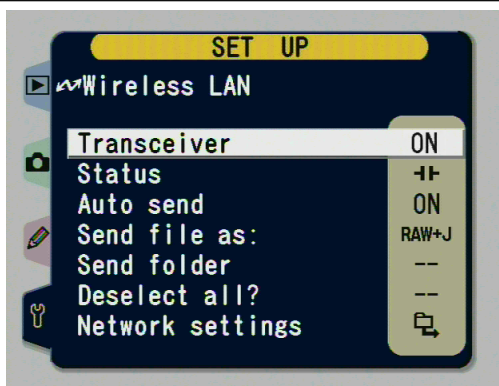
Once the *Wireless LAN* menu appears select the *Transceiver* entry and switch it to the OFF position.

### Step 14



Select the *Load settings file* entry and instruct the camera to retrieve the settings from the card.

### Step 15



When the settings have been loaded, return to the *Wireless LAN* menu. Return to the *Transceiver* entry and switch it back to *ON*.

### Step 16



## Complete

If everything has worked correctly, the transmitter will now be functional. If you haven't done so yet, take a picture to ensure that it is transmitting correctly. If it is *not* working, please see the troubleshooting section.

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### Wireless Network Settings

During step nine of the setup process, you were asked to enter the wireless settings into the blue section of the control centre. In order for the WT-1 to function properly, these values must be entered correctly and completely. If you are unsure about any of these values, please read on for a quick summary of the required information and how to obtain it.

#### SSID (Network Name)

The SSID (Service Set Identifier) is a unique name that identifies a wireless network. All devices operating on your network use this name to find and connect to the correct access point. It is important to note that this value is *case sensitive* so make sure that you enter it *exactly* as written.

If you are unsure of the name of your network, simply right-click on your wireless network adapter's tray icon and select *View Available Wireless Networks*. This will list all of the networks in range, as well as tell you the name of the network that your computer is currently connected to.

#### Network Type

This field selects the type of WiFi network that you would like to connect to. Infrastructure networks (the type covered in this guide) are wireless networks based around dedicated access points. Ad-Hoc networks are a simpler form of wireless networking where devices can communicate directly with one another.

#### Channel

Specifies the frequency at which the wireless network will operate. When used with Infrastructure networks, the channel is automatically determined so this field cannot be modified in this mode.

#### Encryption Mode & Key

Wireless networks can optionally be configured to encrypt data travelling over them to prevent third parties from intercepting private information. In order to use this, all devices on the network must be configured with the same encryption mode and key.

For instructions on configuring your network to operate in this mode, please see the documentation that came with your wireless access point/router. Please note that the WT-1 does *not* support WPA or WPA2 encryption.

#### Encryption

The Nikon WT-1/1A supports a form of security called WEP. When enabled in both the camera and the laptop, all transmitted images will be encrypted to prevent anyone from intercepting them.

For simplicity sake, this guide leaves this feature disabled. For most people this encryption is not necessary - however if you are concerned about this you can turn it on.

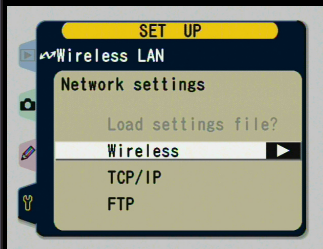


# Troubleshooting Guide

The WT-1 is a complex device and problems may arise when trying to set it up the first time. This section is designed to guide you through the process of identifying those problems and rectifying them.

## Troubleshooting

If the profile was not properly loaded onto the card the 'Load settings file?' entry will be greyed out as shown in the following screen capture:



If this happens, please replace the Compactflash card back into the computer. Return to the Control Centre and press the *Configure WT-1/WT-2/WFT-E1* link to reload the profile on the card.

Repeat steps 10 through 15, taking special care to ensure that the drive letter specified in step 10 is correct. It is advised that you verify your selection in Windows Explorer before going on.

If everything was done correctly this time, the entry should be available and you will be able to continue on.

## Symptom: Flashing Power LED



*This scenario usually occurs when there is a conflict between settings that have been uploaded into the camera. There are a number of issues that can cause this problem and the following section covers a number of them and their solutions.*

### Step 1: Ensure settings have been loaded properly.

Sometimes the WT-1 will not properly load all of the settings from the memory card. It can be very sensitive to the manner in which you *leave* the menus after loading the settings file. Please carefully repeat steps 13-15 in the instructions in order to reload the settings.

If it is still not connecting properly, please check the settings in the camera and compare them to the ones listed in the instructions contained in this document.

### Step 2: Verify that the correct settings are selected.

The Control Centre should automatically load the network settings from the host computer. Return to the 9<sup>th</sup> step and reselect an IP Address in the red section to trigger the reloading of the rest of the settings. If the only available address is 0.0.0.0, then return to the wireless configuration and ensure that your computer is attached to a wireless network.

### Step 3: Check software firewalls running on the laptop.

If you are running any software firewalls on your laptop, check the settings to ensure that they are not blocking incoming FTP traffic. Each product works in a different way so detailed directions are beyond the scope of this document.

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### Symptom: Solid Link LED



When the camera is trying to connect to the server but has not run into an error yet it will display this pattern with its LEDs. This can happen because of a number of problems that are covered in the following paragraphs.

### Step 1: Ensure settings have been loaded properly.

Sometimes the WT-1 will not properly load all of the settings from the memory card. It can be very sensitive to the manner in which you *leave* the menus after loading the settings file. Please carefully repeat steps 13-15 in the instructions in order to reload the settings.

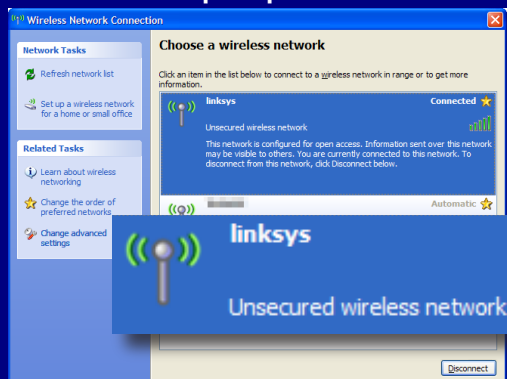
If it is still not connecting properly, please check the settings in the camera and compare them to the ones listed in the Control Centre.

### Step 2: Double check SSID values.

The SSID settings in the computer and camera are sensitive to things like case and leading/trailing spaces. Return to step 9 and verify that the Network name (SSID) value that has been entered is identical to that of the network you will be working with.

### Step 3: Verify that laptop is connected to the network.

Return to the *View Available Networks* dialog and verify that the laptop is connected to the correct network. If



it is not, then simply select the network you would like to use and click the *Connect* button.

### Troubleshooting

If you are having problems, the three LEDs on the back of the WT-1 are the best way to diagnose them. This legend describes the various patterns to help you troubleshoot the source of the problem.



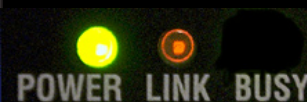
#### Transmitting

The WT-1 has successfully connected to your computer, and is currently transmitting images.



#### Connected

The WT-1 has successfully connected to your computer, but is not currently transmitting images.



#### Trying to Connect

The WT-1 is trying to connect to the FTP server but has not been able to do so.



#### Connection Failure

The transmitter has run into a problem that is preventing the connection from being formed.



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### Connection Status

#### Connected

When the laptop has associated with a network, this icon will be shown beside its name in the list of networks. This signals that the computer is now ready to communicate with other devices using the same SSID.

#### Available

The laptop has detected the presence of this network. It has not associated with it, however it is available to connect to.

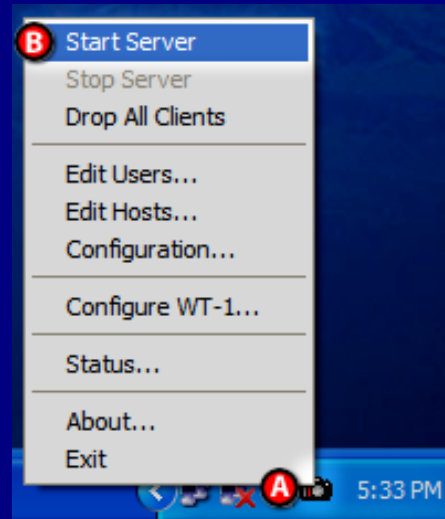
#### Unavailable

This icon is displayed beside networks that the laptop cannot find in the vicinity. You may be out of range or the camera may not be turned on.

### Step 4: Check security settings in access point.

If you have enabled any security settings such as *MAC Address Filtering*, verify that the WT-1 has been granted access to the network. See the documentation for your wireless access point/router for instructions on how to perform this task.

### Step 5: Verify that ITP is running properly.



Right-click on the ITP icon (A) in the system tray. If the Start Server entry (B) is not greyed out, select it. Try the WT-1 again to see if it is working.

If ITP is already running then try to connect to 127.0.0.1 with FTP client software. If you are unable to connect then double check your settings in ITP and any firewall software you are running.



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### Still having problems...

If the above troubleshooters still have not resolved your problems, please feel free to contact us at [support@pixagent.com](mailto:support@pixagent.com). Some problems need more complex debugging steps that will require personal attention. You can also visit us at:

<http://www.pixagent.com>

### ITP Registration

If you have not already done so, please register your copy of ITP 2.0 so that we can notify you of any future updates to the software. Our registration data is not shared with any outside parties and will only be used as you specify on the registration form.

This information helps us keep our customers up to date on any improvements made in our products. If you wish, you may also be placed on the list of potential beta-testers for upcoming versions of our software.

The screenshot shows a Mozilla Firefox browser window displaying the Pixagent website. The browser's address bar shows <http://www.pixagent.com/>. The website features a navigation menu with links for Products, Services, Support, News, and Company. A prominent banner for 'ITP 2.0 Pro Now Available' includes a list of features: Automatic processing of incoming images, Live image review and slideshow functions, and Memory card synchronization system. Below this, there are buttons for Features, Screenshots, Manual, and Download. The page also highlights 'ITP Features' and 'PocketITP 1.2' with their respective feature lists. A copyright notice at the bottom reads '© Copyright 2004 Thomas Sapiano. All Rights Reserved.' The browser's status bar at the bottom shows 'Done', 'GP', and 'Adblock'.

### ITP 2.0 Pro Now Available

**New!** Make the Most of your Wireless Workflow

- Automatic processing of incoming images.
- Live image review and slideshow functions.
- Memory card synchronization system.

[Features](#) [Screenshots](#) [Manual](#) [Download](#)

### ITP Features

- Assisted Camera Configuration
- Memory Card Synchronization
- Automated Processing Features
- Live Image Review & Analysis
- Live Slideshow System
- Centralized Control Interface
- Adapter Management System
- Batch Renaming & More...

[More Information](#)

### PocketITP 1.2

- Assisted Camera Configuration
- Battery and Card Space Readouts
- Instant Preview of Images
- Simple, one Handed Operation
- Full Administration from PDA
- Automatic Memory Card Failover
- Power Saving Features
- Compact Footprint

[More Information](#)

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