

Presto!

WMS

Wireless Multimedia System



 **NewSoft**

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User's Guide

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A perfect presentation can be ruined if it can't be seen by all participants, or if setup delays cause the audience to lose interest. Presto! WMS (Wireless Multimedia Presentation System), included with your wireless multimedia card will keep things moving. You need a projector or monitor for the adapter, and a computer to act as Sender. The Sender can be easily changed without reconnecting any wires. It's all very easy to set up and the hard choices like channel and serial number selection are made automatically.



If you buy more than two devices, the one-to-many transmission mode will not be supported for Ethernet connections.

- [System Requirements](#)
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System Requirements

Presto! WMS requires hardware in the form of a wireless card. Here is a list of the system requirements that must be met before installing the programs.

- Intel Pentium III processor, 800 MHz or faster.
- Windows 2000 or XP with DirectX 8.1 or later.

- A minimum of 256 MB RAM and 200 MB free hard disk space.
- A display card supporting 16-bit high color or true color with 800 x 600 or above resolution. (1024 x 768 is recommended.)
- At least 200 MB hard disk space for running the program. At least 500 MB of available working space.
- A Windows-compatible sound card and speakers.
- CD-ROM or DVD-Rom drive.
- Wireless card.
- For transmitting desktop images, the following resolutions are supported: 800 x 600, and 1024 x 768.

Hardware Box Requirements

The WMS-R hardware box supports the NewSoft Wireless Multimedia System Protocol.

- Power: 5 V, 1 A for Asia and the U.S.A (5V, 1.7 A for Europe).
- LAN supported: Ethernet, WLAN 802.11 a/b/g.
- Processor: TF-530 or TF-522.
- Flash ROM: 1 MB.
- SDRAM: 128 KB.
- Graphics Processor: ASIC or FPGA.
- DRAM: 2 x 32 MB.
- Output: D-Sub 15 pins.

- Graphics resolution: 800 x 600 and 1024 x 768, for ASIC design, 1280 x 1240 will also be supported.
- Color Quality: 16-bit (Normal), 24-bit (Better), 32-bit (Best)

Features

- Mouse movement on the Sender computer can be seen on the projected screen.
- Low transmission error rate.
- Automatic channel selection and serial number assignment.
- Automatic scanning for Senders and Adapters, and a list to select from.
- WEP (Wired Equivalent Privacy) protection for added security.

Installation

Before you begin, make sure the hardware is correctly set up. The installation will be done in two parts: one for the Presto! WMS program and one for the hardware driver. Follow the steps below.

1. Insert the disc into the disc drive. The installation program will automatically open and guide you through the process.
2. After installing the software, the system will detect the related hardware and install the driver.

Presto! WMS is now ready to use.

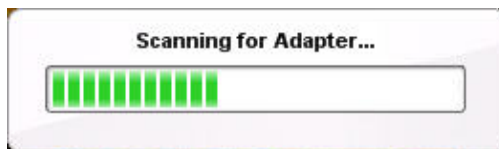
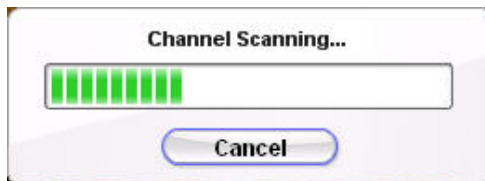
Chapter 2 Setting Up the System

Here is how to prepare the program for a presentation.

1. Start Presto! WMS. Presto! WMS will automatically display any network devices. Select one from the list.



2. Click **OK** to start scanning for channels, and then scanning for the adapters.





This scanning process only happens when (1) opening Presto! WMS the first time (2) the adapter has been modified.



Presto! WMS will recognize the previously connected device when opening and skip the device scanning. If the previously connected device has been removed, a message will open and device scanning will be done again.



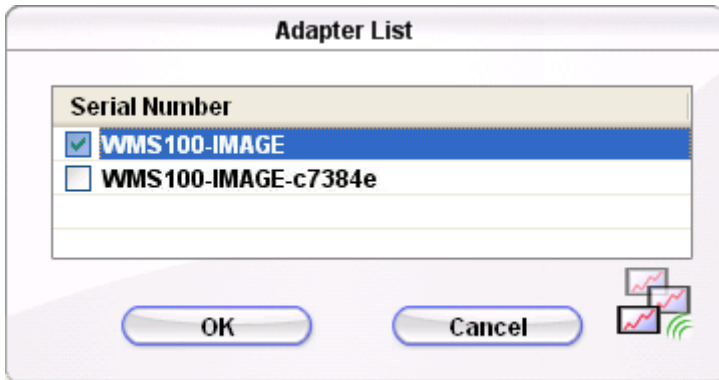
*For WLAN cards that have yet to pass the Windows certification, the scanning process won't find the adapter. This message will appear to help you find a solution: "WMS is unable to connect to the WMS receiver with the Windows Standard Utility. To begin using the software, please use your Windows WLAN card utility to manually locate a wireless connection to the WMS receiver". After you click **OK**, the main control panel will open. If you used the WLAN Card utility to manually locate a wireless connection to the WMS receiver, you can start to play. Otherwise an adapter won't be found."*


For Ethernet, the scanning process won't start and the main control panel will open.

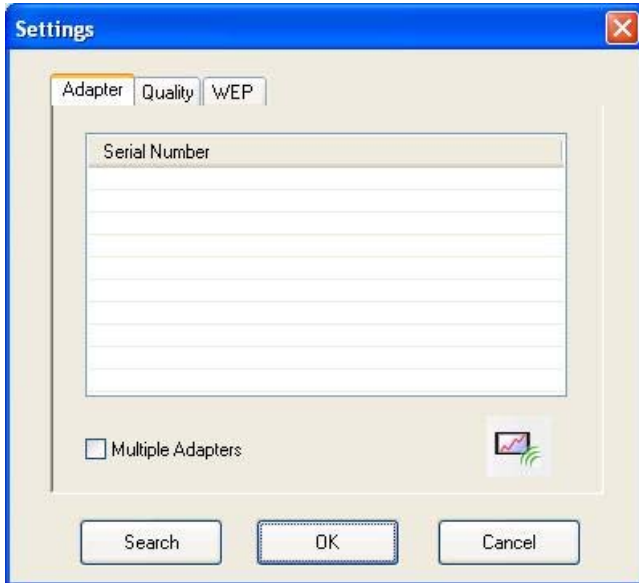
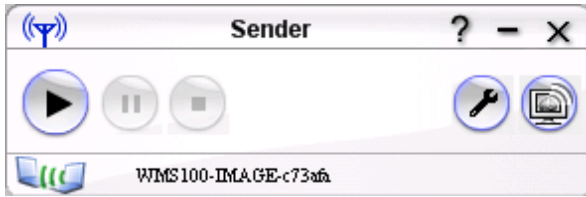
3. The scanned adapters will be shown on the **Adapter List**. Click one to select it.



You can select more than one adapter. If **Multiple Adapters** is selected, there will be a check box for each device on the **Adapter List**. The selected adapters will receive the same source from Presto! WMS .



4. Click the  button on the control panel to open the **Settings** dialog box.



5. Click the **Adapter** tab and make the following settings.

Serial Number: Shows the available adapters.

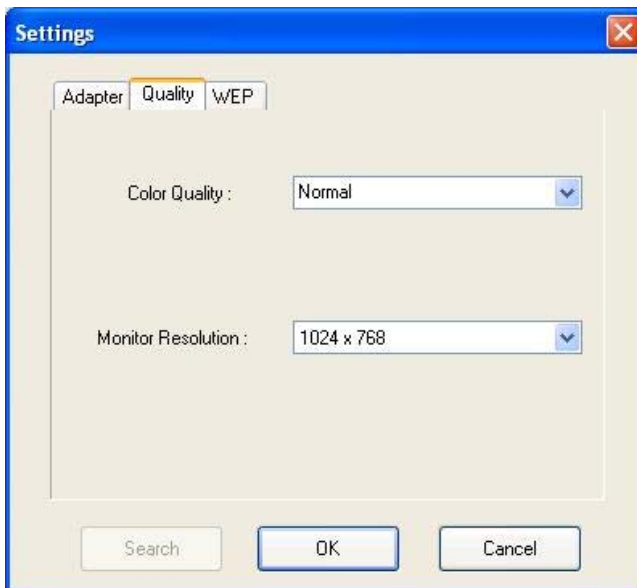
Multiple Adapters: Enable this option to select more than one adapter for transmission. There won't be a check box in front of the listed adapters if this option is not enabled.

Search: Click this button and the program will scan again for available adapters.



*If the network device is Ethernet or the WLAN card has not passed the Windows NDIS certification, the functions on the **Adapter** tab will be disabled.*

- Click the **Quality** tab to set up the screen capture quality supported by Presto! WMS.



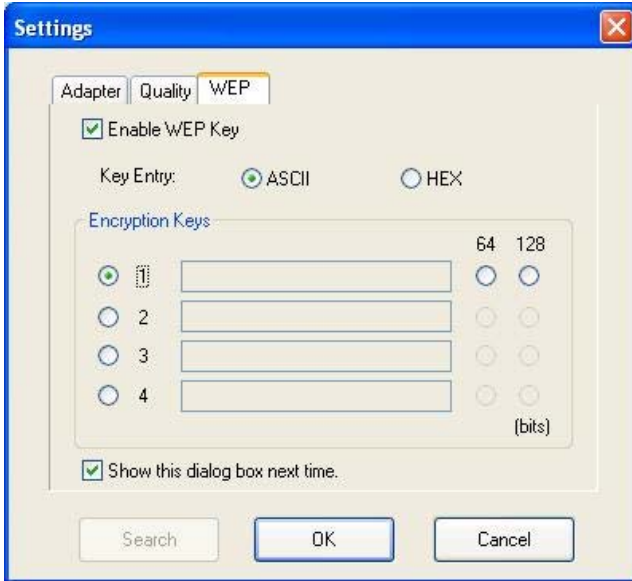
Color Quality: Click to choose **Best**, **Better**, or **Normal**. The better the quality is, the more likely the stream transmission will be slowed.

Monitor Resolution: Click to choose the screen capture resolution.



The default Color Quality is Normal, and the default Monitor Resolution is 1024 x 768.

7. Click the **WEP** tab to use Wired Equivalent Privacy and add protection to your data. Click **Enable WEP Key** to activate the encryption function. You can specify any of the four keys to protect your data transmission.



After you have finished, click **OK**.



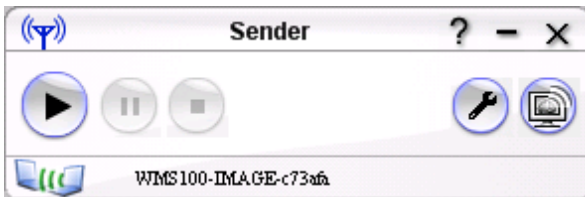
*If you type the encryption keys and then change to the **Adapter** tab without clicking **OK** first, the protected devices won't be found when searching for adapters.*



*If the network device is Ethernet or a WLAN card that hasn't passed the Windows NDIS certification, the functions on the **WEP** tab will be disabled.*

After you have set up and opened all the programs, you are ready to experience the wonder of wireless multimedia communications.

You can project the desktop of the Sender. The audience can watch the mouse move across the screen and view any images you open on the desktop. This is a perfect way to get your point across to your audience. Slide show or PowerPoint presentations come off really well.




Here are the Sender controls and an explanation of the available buttons.







- Click the play button  to broadcast the desktop image.
- Click the pause button  to suspend the broadcast.



This button may not be available in all versions of the program because it works only when the data is a video file.

- Click the stop button  to quit transmitting data (but the connection will not be broken).
- Click the setup button  to open the **Settings** dialog box.
- Click the **Live Update** button  to connect to the NewSoft website.

The operation status can be seen in four different modes.

	Data is being transmitted between computers.
	Data is being transmitted between computers using the WEP key settings.
	A connection is being provided by the Access Point.
	A connection is being provided by the Access Point using the WEP key settings.



The connection status icons and the connected device name will only appear when using a WLAN card that has passed the Windows NDIS certification. If not, or the connection device is Ethernet, the status bar will be blank.

Appendix Channel Specifications

This program is based upon the IEEE 802.11 standards. For 802.11a, it uses the 5 GHz band, and for 802.11 b and g, it is the 2.4 GHz band. Here is the channel list.

Channel No.	Frequency	USA-Canada	ETSI	Japan
1	2412MHz	X	X	X
2	2417MHz	X	X	X
3	2422MHz	X	X	X
4	2427MHz	X	X	X
5	2432MHz	X	X	X
6	2437MHz	X	X	X
7	2442MHz	X	X	X
8	2447MHz	X	X	X
9	2452MHz	X	X	X
10	2457MHz	X	X	X
11	2462MHz	X	X	X
12	2467MHz		X	X
13	2472MHz		X	X
14	2484MHz			X

For 802.11a, there are 3 segments of channel allocation. The list is shown below:

Channel No.	Frequency	USA-Canada	ETSI	Japan
34	5170MHz			X
36	5180MHz	X	X	X
38	5190MHz			X
40	5200MHz	X	X	X
42	5210MHz			X
44	5220MHz	X	X	X
46	5230MHz			X
48	5240MHz	X	X	X
52	5260MHz	X	X	X
56	5280MHz	X	X	X
60	5300MHz	X	X	X
64	5320MHz	X	X	X
100	5500MHz		X	
104	5520MHz		X	
108	5540MHz		X	
112	5560MHz		X	
116	5580MHz		X	

120	5600MHz		X	
124	5620MHz		X	
128	5640MHz		X	
132	5660MHz		X	
136	5680MHz		X	
140	5700MHz		X	
149	5745MHz	X		
153	5765MHz	X		
157	5785MHz	X		
161	5805MHz	X		