

WINDEO OEM INSTALLATION MANUAL

IP MULTICAST HDTV VIDEO STREAMING APPLICATION

Prepared by **Tho Nguyen**
Applications Engineer
Wireless Product Division
Sigma Designs
Email: tho@sdesigns.com
Phone: 408-957-828

Introduction

This document will show you how to install the software and tool from the software distribution package, setup, and run the IP multicast video streaming application using Winet-UWB wireless PCI devices from Sigma Designs.

This software distribution package includes the following files:

- Sigma UWB driver for Microsoft Window Vista and Window XP:
release-8
- VLC Video 0.7.1

- User manual for Window XP and Window Vista.

- Short sample video clip.

Hardware:

- Windeo Tx board
- Windeo Rx board
- Pika 8622L or Vantage 8634 board.
- 5V power supply for Windeo Tx
- 5V power supply modified to 4V for Windeo Rx.
- 12V power supply for Pika 8622L or Vantage 8634 board
- MiniPCI to PCI adapter

Client Side Installation and setup

Pika 8622L or Vantage 8634 sent to you is pre-installed with Windeo driver and its boot loader. It's very much plug-n-play now. Video output from Pika 8622L or Vantage 8634 is pre-set to HDMI unless there is a request for different output.

To setup Client side:

- Plug Windeo Rx into MiniPCI slot of the Pika 8622L or Vantage 8634.
- Connect HDMI cable from Pika 8622L or Vantage 8634 to the TV.
- Apply 4V power supply to Windeo Rx board then hit **Reset**.
- Apply 12V power supply to Pika 8622L or Vantage 8634 then hit **Reset**

Note: Reset Windeo Rx before Reset Pika or Vantage. For Pika, please hold the Reset for at least 10 seconds.

While resetting Pika 8622L or Vantage 8634, please pay attention to your TV. If you see the flash on your TV screen, this means the Client boot up correctly. If not, please reset the boards again.

Server Side Installation and setup

What do you need?

-You will need a PC machine with quite high computing power. The higher computing power the server has, the better, especially when you'll be running 2 HD streams or more on this server. Therefore, the following system requirements it is strongly recommended:

- At least **Pentium 4 CPU** with **2.2GHz** and **512MB** memory.
- **Microsoft Window XP or Vista**
- **VLC application** version **0.7.1** which is included in the SW package for your convenience.

Hardware Installation:

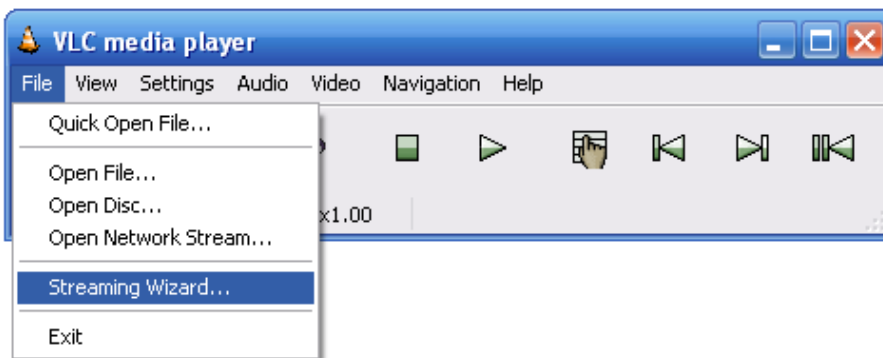
- Insert Windeo Tx board into MiniPCI-PCI adapter then into PCI slot of your computer.
- This version of Windeo board needs a fan, so please have the fan connect to your PC's power supply and blow some air to the Windeo Tx board.
- Apply 5V power to Windeo Tx board then hit **Reset**.
- Power ON your PC.

Software Installation:

- Install Sigma UWB Windeo driver.
To make sure your PC recognizes the Windeo board, please check by looking under Network Adapter from Device Manager to see if the Sigma UWB device is there.
- Install VLC application.
Double click on VLC 0.7.1 to run.
- Copy the video file into your local hardrive.

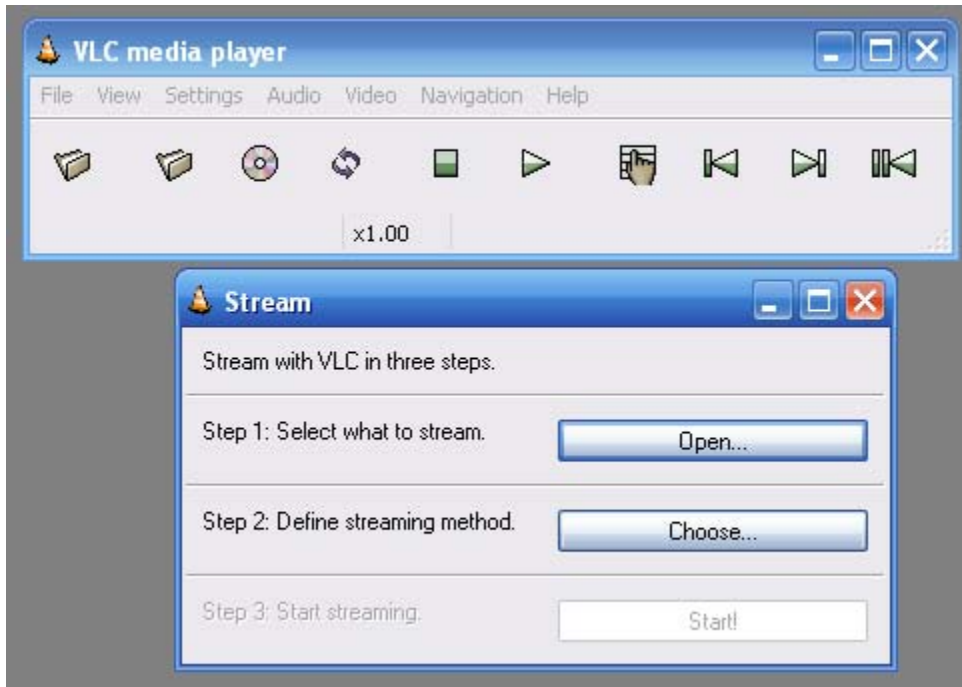
Streaming Video:

To open VLC. Click on VLC 0.7.1

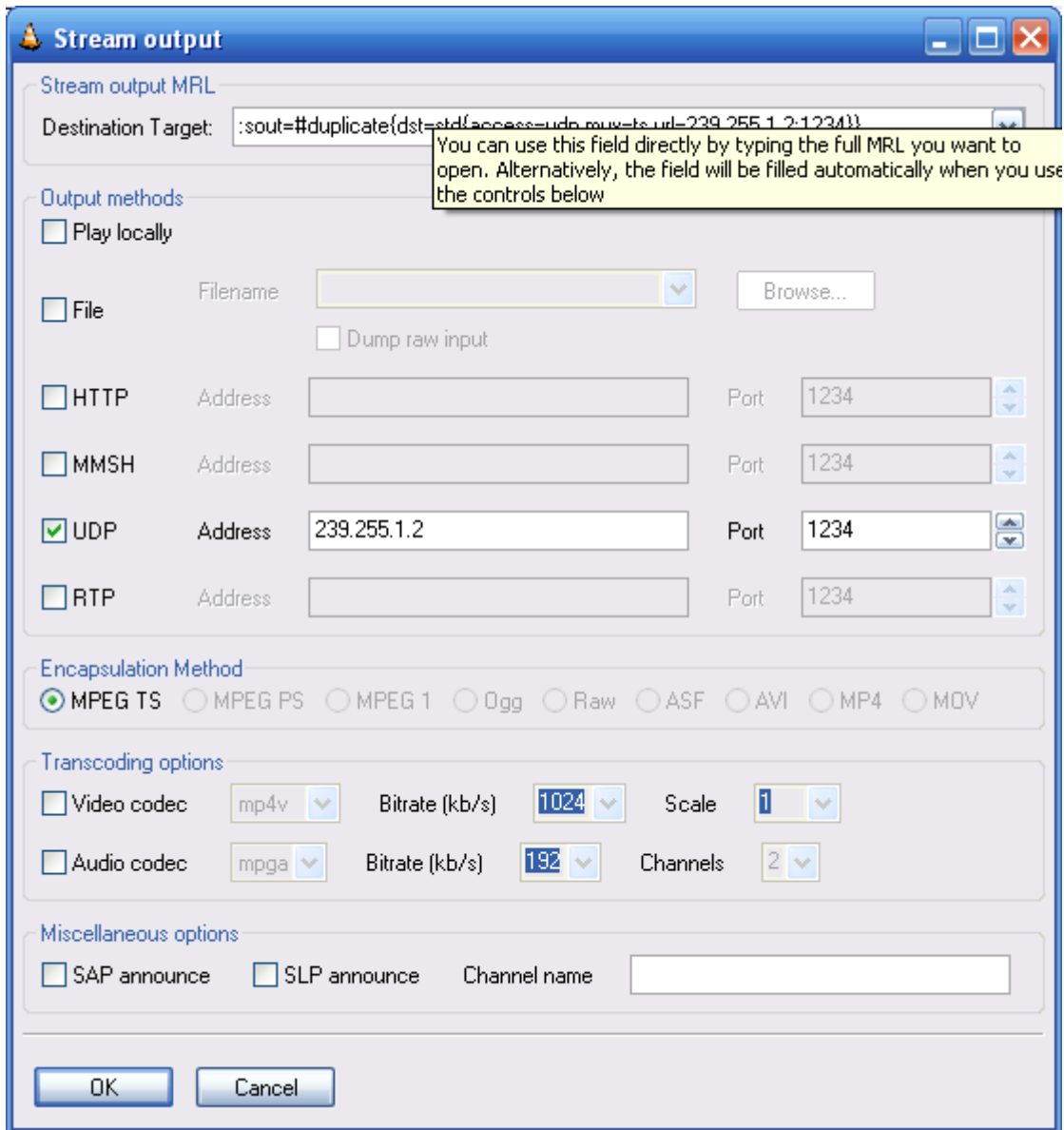


File -> Streaming Wizard...

Open, to choose your Video File



Choose: UDP and address: 239.255.1.2
The click OK.



Click Start on Steam menu to start streaming video.