AIR**VGA**™ II

Wireless Presentation System

User Manual

v.1

(VW-4PM)

I. OVERVIEW & FEATURES

airVGA™ II Wireless Presentation System wirelessly enable any projector! It is plug-and-play, right out the box. Any desktop or notebook PC's, PDA/Smartphone with Windows Mobile OS and Wi-Fi connection can access the projector without swapping any cables. It also works with HDTV's VGA/PC port and built-in proprietary technology that allows smooth streaming of audio and video in MPEG formats.

airVGA™ II now have 4-Way Split-Screen capability allowing up to 4 users to connect and project their screen simultaneously. It also has screen mirroring support for Apple/Mac.

airVGA™ II is ideal for classrooms & conference area. It is perfect for PowerPoint & real-time video presentations. It has log-in protection that provides secured access to the projector.

Features:
- Share a projector with 4-in-1 Split-Screen capability
- Supports streaming video including MPEG 1, 2, & 4 formats
- Supports 800x600, 1024x768 or 1280x768 screen resolutions
- Built-in DHCP server provides greater installation flexibility
- Web-based user interface for easy configuration
- Conference control function is perfect for training sessions
- Session security log-in and Wi-Fi WEP protection
- Provides screen-mirroring for Apple/Mac clients
- Supports PDA/Smartphone that uses MS Windows Mobile OS
- Works with Windows Vista/XP/2000 systems

- Supports IEEE802.3 RJ45 LAN & IEEE802.11b/g Wi-Fi
- Wi-Fi WEP 64bit & 128bit encryption for wireless protection
- Up to 200ft range and works with internal or external wireless card
- Acts as a DHCP server or works with existing local area network server
- Supports Static IP configuration and custom SSID wireless ID
- Provides internet connection thru its built-in RJ45 port

II. INSTALLATION

1. Assemble the VW-4PM by connecting its wireless antenna to the base-unit and its power adaptor to a power outlet. Connects VW-4PM Wireless to the projector's VGA port.
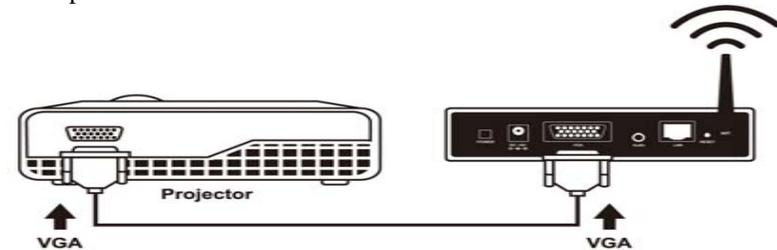
2. Make sure your computer's wireless connection is active. If you are experiencing intermittent wireless disconnection, please change your wireless NIC settings and let MS Windows managed your wireless connection. (Consult your MS Windows manual to make this change.)

3. Turn-on the projector, then turn-on VW-4PM. Wait until you see the screen below from your projector.
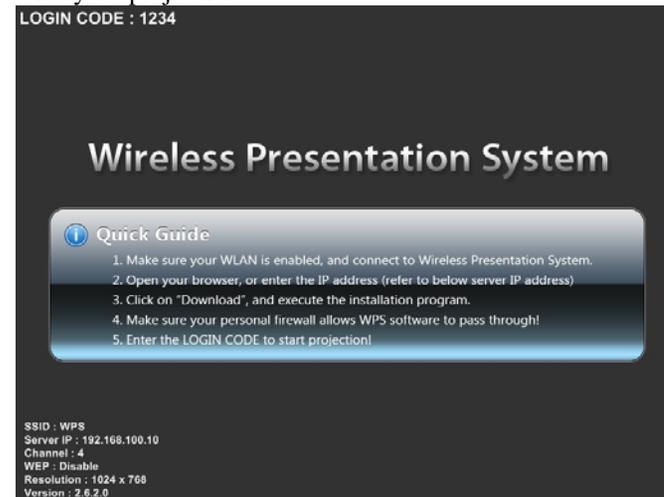
From the projector's screen, note the 4-digit Log-in Code, SSID and Server IP address. You will need this information to install the player software.

4. Connect your computer to VW-4PM wireless network (SSID: WPS). Most computers will automatically connect to the available wireless access point. Otherwise, click on your computer's wireless utility to select WPS to connect.

5. Open your Internet Explorer and type the Server IP shown on the screen (default is http://192.168.100.10) at the address bar and you'll see the screen below.
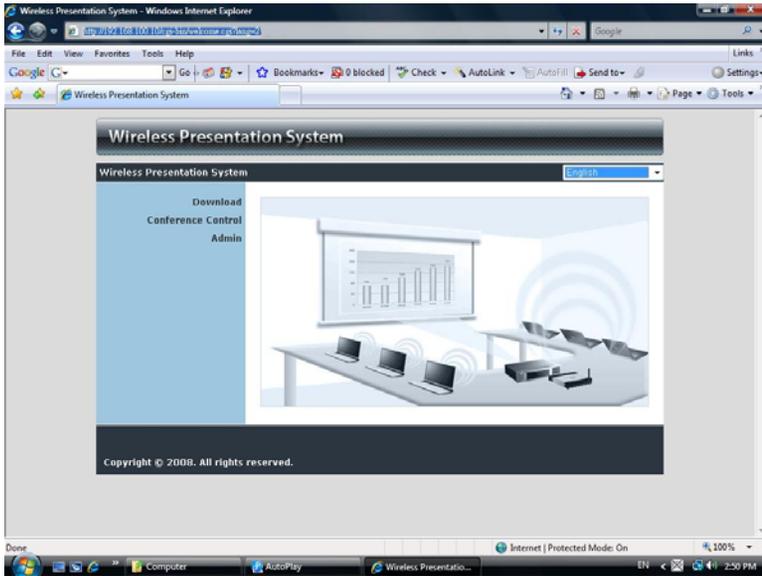
6. Click on "Download". Select the proper software for your computer operating system. Click on the "Download" and select "Run" at the prompt and follow the instruction to install the player software. A desktop icon will be created.

7. At your desktop, click on "WPS". The program will search the network and at the prompt, enter the 4 digit log-in code.

Note: If WPS failed to connect, make sure you have the correct log-in code or that your wireless card connection is properly configured.

After a successful log-in, click OK on next prompt including screen resolution changes. Once you exit the application, your computer screen will go back to its original screen resolution settings.

8. Click "Play" to start sending your screen to the projector.

Note: For Video Streaming, see "Playing Video Streaming" under WPS Application Software section.

III. WPS APPLICATION SOFTWARE

1. WPS application software is built-in into the module and accessible thru Internet Explorer web browser. Its default IP address is 192.168.100.10. It can be change in WPS Admin section.

2. After you log-in successfully, these are two main user interface

Standard Mode (Screen Mirroring):

Video Streaming Mode:
(when you click on "video" from the standard mode)
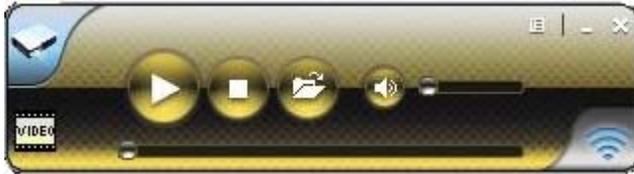
Here are its icons/buttons and its function.

Presentation Mode

Video Mode

Full-Screen or 4-in-1 Split-Screen mode

Full Screen projection

Project to Split-Screen #1

Project to Split-Screen #2

Project to Split-Screen #3

Project to Split-Screen #4

Pause projecting

Stop projecting

Magnifier (must install Magnifier software found on USB token)

Server Login Code (code for reference only)

While projecting in progress, this icon is blinking

Function menu

Minimize the program

Exit the program

Start Playing Video

Stop Playing Video

 Open Video File

 Audio volume

 Audio volume strength bar

 Video time bar

 While playing video, it will be blinking

3. Playing Streaming Video

Click to switch to Video Streaming Mode.

Click to open the video file and submit to play it.
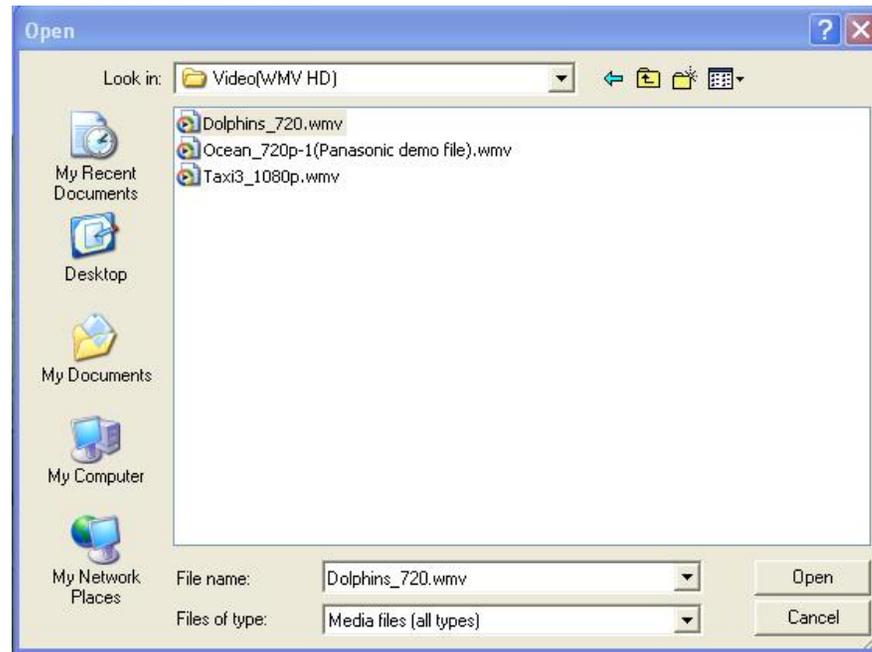
Note: Only the MPEG formats are supported including MPEG 1 (MPG, MPEG, DAT), MPEG2 (MPG, MPEG, VOB), MPEG4 (ASF, WMW9, WMW, AVI. It does not support QuickTime video files (MOV).

The audio port on the VW-4PM is only for streaming video and requires IEEE802.11g 54Mbps Wi-Fi connection.

IV. WPS Apple/Mac Client Installation

Supports computer system with Mac OS X or higher and screen-mirroring (PowerPoint presentations) only.

1. Enable your Wi-Fi and connect to VW-4PM wireless network (SSID: WPS). Insert the USB Token included with VW-4PM into your computer's USB port. Locate and run the DMG file.

2. Launch WPS software and enter the log-in code.

V. PnS USB Token Creation

After installing WPS application software, you can create a stand-alone WPS player software on an external USB drive that can be use on any computer with IEEE 802.11g. This is great for installation where physical software installation is not allowed.

1. From the main WPS player, click on the menu icon and select "Make PnS Token".
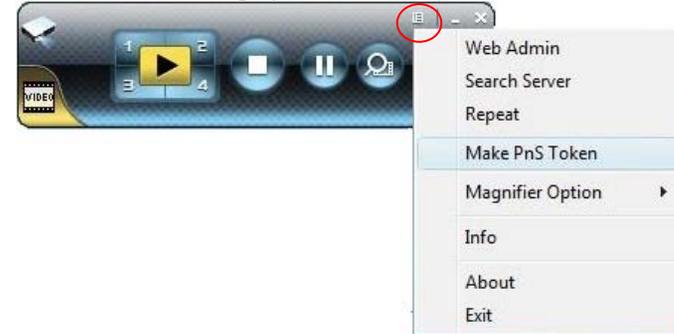
2. Ready the USB drive and follow the instructions on the screen until the "USB Auto Setup Wizard" is complete.

VI. CONFERENCE CONTROL

Conference Control Administrator screen allows the host or presenter to maintain order in presentations especially when there are many users who are currently log-in at the same time.

1. Open your Internet Explorer and type the Server IP shown on the screen (default is http://192.168.100.10) at the address bar and you'll see the screen below.

2. Click "**Conference Control**", enter the default password "trainer", click log-in. On this screen, you will see all users who currently log-in as shown in example below.

3. "**Play Control**" shows the status of currently log-in users. These are toggle icon that allows the host to play or stop the presentation.

The first 5 icons under "Play Control" corresponds to full screen or if split-screen is enabled, shows which part of the screen their presentation is running.

VII. WEB ADMIN

Web Admin allows you to customized WPS default settings and monitor system status including setup changes for network, projection, passwords & firmware upgrade. You can also reset the VW-4PM to its default settings or re-start it remotely.

WARNING: CAREFUL WHEN MAKING ANY CHANGES.
ANY MODIFICATION TO DEFAULT SETTINGS MAY REQUIRE CORRESPONDING CHANGES TO COMPUTERS CONNECTED TO VW-4PM.

1. Open your Internet Explorer and type the VW-4PM Server IP address (default is http://192.168.100.10) at the address bar. Click "Admin" and enter the password (default password is admin).

2. Here is the information that can be found under "**System Status**":
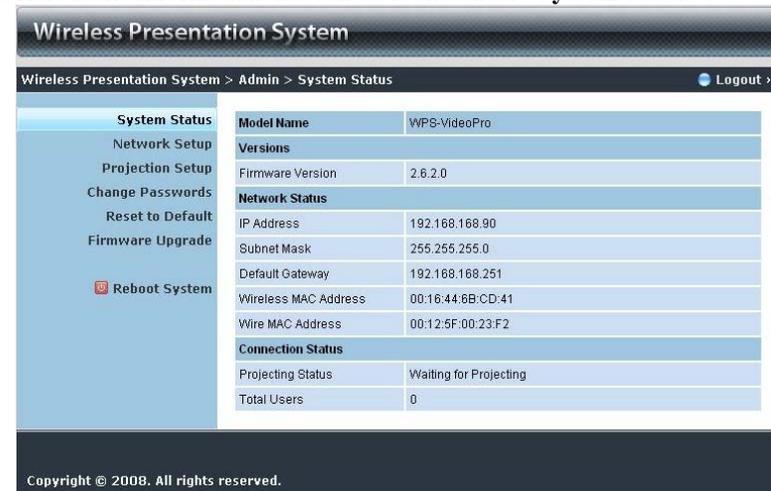
3. Network configuration including changes to IP addressing, DHCP Server, Wireless and GateKeeper are under "**Network Setup**".

GateKeeper: Another layer of network security. **All Block** will not allow office network access, **All Pass** allows office network access while **Internet Only** don't allow office network access but still have internet. This feature is only active when VW-4PM is connected to a local area network, internet or both.

Please consult your network administrator for changes needed for IP Setup, DHCP Server and Wireless Setup when integrating VW-4PM to an existing local network.

4. **"Projection Setup"**

Under Projection Setup, resolution can be change between 1024x768 and 1280x768, Color Depth between 16bit and 32bit, Screen Refresh Rate between 60Hz and 75Hz to suit different type of projectors.

5. "**Changing Passwords**"

When setting customized passwords, remember to keep a copy. If you forgot or loss the password, the only option is to reset to factory default.

After entering the password, click on "Apply".

6. "**Reset to Factory Default**"

This will restore the VW-4PM to factory defaults.

You can also reset VW-4PM thru the following these procedures:
Power-off the VW-4PM, on the rear panel press RESET button and hold it for 10 seconds while turning-on the VW-4PM.

7. "**Firmware Upgrade**"
Do this only when instructed by the factory technician since it can render your VW-4PM un-usable.

8. "**Reboot**"
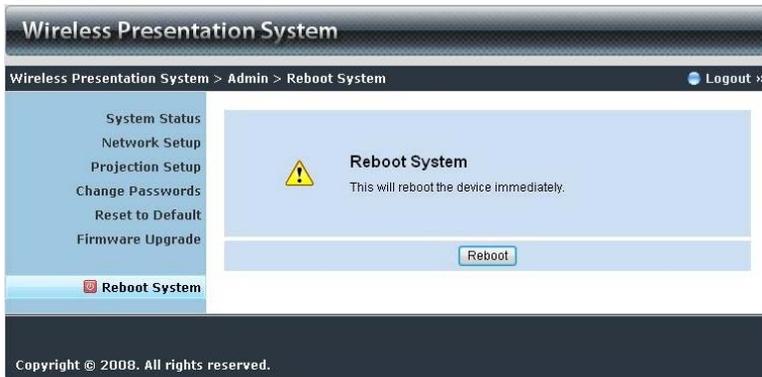
It allow you to do soft-re-start or give your network administrator the capability to remotely re-start VW-4PM.

VIII. NETWORK APPLICATION DIAGRAMS

AirVGA not connected to existing network infrastructure will only allow users to access the wireless presentation, file sharing can only be done between the users, and no internet access.

AirVGA connected to existing network infrastructure via CAT5e cable will allow users to access the wireless presentation. It has the capability to share files within the entire network and internet access.

WALL MOUNT INSTRUCTION (OPTIONAL):

Antenna

Mounting
Bracket

Bracket Fix Screw X 4

Mounting
Screw X 2

Rubber Foot X 4

Wall

Rubber Foot X 2

③ Use four screw to fix mounting bracket on the wall.

② Screw two mounting screws on unit.

① Remove two rubber foots at back plane side.

④ Hang up unit on mounting bracket.
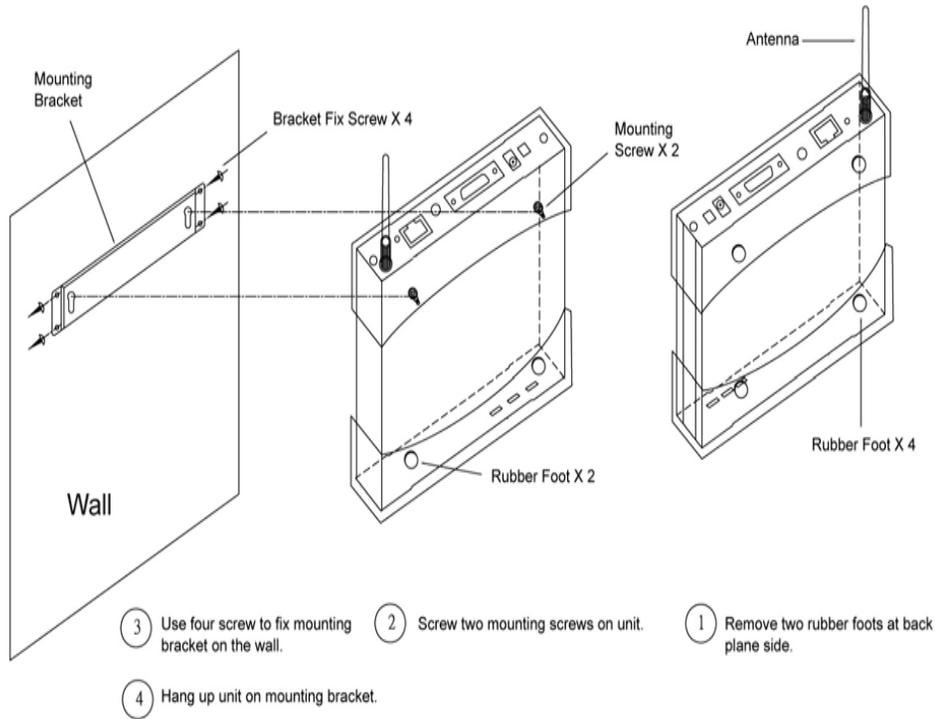
TECHNICAL SPECIFICATIONS:

-	Screen Resolutions	1024x768 (XGA) / 1280x768 (WXGA)
-	Video Streaming	Up to 30fps with Audio
-	Video Formats	MPEG1, MPEG2, MPEG4, WMV, AVI
-	Network Connections	Wi-Fi IEEE802.11b, IEEE802.11g
		Fast Ethernet IEEE802.3 10/100Mbps
-	Wireless Speed	11Mbps, 54Mbps
-	Wireless Frequency	2.4GHz
-	Wireless Channels	11
-	Wireless Encryption	WEP 64 or 128bit
-	Wireless Antenna	Detachable SMA (-3dBi)
-	Wireless Range	Up to 200ft*
-	LAN Protocol	TCP/IP
-	LAN Type	AP Mode, Hybrid (AP + LAN)
-	IP Configuration	Automatic or Manual (Static)
-	OS Compatibility	Windows 2000, XP & Vista
		Windows Mobile v5.xx and v6.xx
		Apple Max OS X (10.4 or higher)
-	Connectors	RJ45 LAN, HD15 VGA, 3.5mm Audio, SMA
-	Power Supply	AC Power Adaptor (included)
-	Certification	FCC, CE
-	Warranty	One Year
-	UPC	0 37229 00735 0
-	SKU	VW-4PM