# USB Wireless Transmitter and Receiver to HDMI Display - ID# 722



# **Operation Manual**



Introduction	The USB wireless transmitter and receiver to HDMI display can allow you to view any PC information on a compatible TV with a wired like experience. An additional feature of this product is that it includes extra USB ports allowing it to perform KVM operations next to the TV, which is an added bonus for those of us who are multi-taskers.
Applications	<ul> <li>Wirelessly send Audio and Video from your PC to an HDTV</li> <li>Watch Internet TV on big screen, wirelessly</li> </ul>
System Requirements	<ul> <li>System Hardware Requirements: 2.4 GHz single core CPU with at least 1GB RAM for optimal performance</li> <li>Operating Systems:         <ul> <li>Windows 2K SP4</li> <li>Windows XP Home or Professional 32 bits SP2</li> <li>Windows Vista 32 bits</li> <li>Windows 7</li> </ul> </li> <li>USB Port Extension:             <ul> <li>An available USB 2.0 port with USB to mini USB cable</li> <li>It is suggested to upgrade your systems graphics drivers, Display Link software and the mother boards chip set driver to their latest version</li> </ul> </li> </ul>
Features	<ul> <li>Worldwide Band Groups 1,3,4 and 6</li> <li>Completely Integrated Baseband (BB)</li> <li>Supports HDMI &amp; VGA outputs</li> <li>16/32-bit Color for high-quality images</li> <li>HD resolution up to 1920 x 1080</li> <li>Has a broadcast range of 10 meters</li> <li>Speed up to 150MB/s</li> <li>HDMI and RGB display connectivity</li> <li>EDID selection with switch for VGA or HDMI output</li> <li>Secure and easy to use</li> </ul>



Operating Functions and Controls Transmitter

The following sections describe the hardware components of the unit and include a step by step installation guide and other suggested settings.



Connect the wireless USB dongle to a PC or Laptop to deliver fast and reliable media through the use of Ultra Wide Band (UWB) technology.

Front Panel



HDMI OUT: Connect the HDMI output to the HDMI display.
 AUDIO OUT: Connect the audio output to the speaker or AVR.
 VGA OUT: Connect the VGA output to the VGA monitor.
 Note: HDMI and VGA can output at the same time.



### Receiver

#### **Rear Panel**



① **Power:** This slot is where the user plugs in the 5V DC power supply of this unit before connecting the adaptor to an AC wall outlet.

② Link LED: When the LED is on it meems the system is ready and there is audio and Video can be sent.

③ **CABLE ASSOC.:** This slot is where the user connects a USB cable to the PC or Laptop USB port for ID association when first using the system and later on when establishing a connection with the Transmitter.

(4) **EDID control switch:** The default setting for this switch is HDMI, leave the switch here as long as the connected display is compatible. When the EDID control is switched from HDMI to VGA the unit will detect the sources EDID and record it. Turn off in order to use the built in EDID.

(5) **USB Port:** These ports allow the receiver to act like a USB hub, allowing you to connect an External Hard Drive, Keyboard or Mouse.

#### Note:

• These two USB ports cannot be connected to a USB extension hub, doing so will trigger the system to detect the external Hub and will cause a system failure.

Before removing the USB device, the user must follow the USB devices hardware removal procedure. Failure to do so will cause the system to crash.
(6) Mini USB IN: This port supports This port support mirror or video extension (via USB cable) to your HDMI display, including both video and audio output signals.

# Software Installation

The following sections list the procedures to follow when installing the USB to HDMI and USB device drivers. Insert the provided CD into your CD-ROM drive, then begin the Wireless USB Install Disc and follow the below steps to install the driver.



reless USB	
Wireless USB Install	Disc
	[
	Install Microsoft.Net Framework 2.0
	Install WUSB Manager
	Install Video Drivers
	Exit

### Install Microsoft Net Framework 2.0

Step 1: Click Install Microsoft Net Framework 2.0 to start the installation process.

Step 2: Click "Next" to start the setup.

🔀 Microsoft .NET Framework 2.0 Setup		×
Welcome to Microsoft .NET Framework 2.0 Setup		
This wizard wil guide you through the installation process.		
	Next >	

Step 3: Click "I accept the terms of the License Agreement" and go to the Next page.



🔀 Microsoft .NET Framework 2.0 Setup	
End-User License Agreement	
End-User License Agreement	
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 2.0	
Microsoft Corporation (or based on where you live, one of its affiliates) licenses th supplement to you. If you are licensed to use Microsoft Windows operating syste software (the "software"), you may use this supplement. You may not use it if yo not have a license for the software. You may use a copy of this supplement with validly licensed copy of the software.	nis em each
	Print
By clicking "I accept the terms of the License Agreement" and proceeding to use the product, I indicate that I have read, understood, and agreed to the terms of the License Agreement.	ne End-User
I accept the terms of the License Agreement Click <back install=""></back>	<u>C</u> ancel

Step 4: Click "Finish" to complete the installation.





Install Wireless USB Manager Step 1: Click "Next" to Install Wireless USB Setup

😼 Wireless USB Setup	
<u> </u> ]2	Welcome to the Wireless USB Setup
	The setup will install Wireless USB on your computer. Click Next to continue or Cancel to exit.
	v1.0.851.2
	Back Next Cancel

Step 2: Click "I accept the terms of the License Agreement" and go to the Next page.

Wireless USB Setup		
End-User License Agreement	t.	
Please read the following license	e agreement carefully	
ALEREON, IN	NC. LICENSE AGREEMENT	
IMPORTANT - READ THIS LIC	CENSE AGREEMENT	
ALL USE OF THE ALEREON I	INC. ("ALEBEON") SOFTWARE PROVIDE	D WITH
THIS AGREEMENT IS S	SUBJECT TO THIS LICENSE AGRE	EMENT
("AGREEMENT"). BY CLICK	(ING ON THE "LACCEPT" BUTTON BELO THE TERMS AND CONDITIONS OF	W YOU
AGREEMENT, AND CONSENT	IT TO BE BOUND BY AND BECOME A PA	RTY TO
THIS AGREEMENT. IF YOU D	DO NOT AGREE TO ALL OF THE TERMS	OF THIS
HAVE ANY LICENSE TO AN	INY PART OF THE SOFTWARE AND YOU WI	
I accept the terms of this Lices	ince Agreement	
	TISE Agreement	
CIICA		
	<u>Back</u> <u>N</u> ext	Cancel



Step 3: Select the installation folder for the Wireless USB.

🕏 Wireless USB Setup	
Destination Folder Where would you like Wireless USB to be installed?	9
Install Wireless USB to:	
D:\Program Files\Alereon\Wireless USB\ Change	
Rack	Cancel

# Step 4: Click "Install" to begin installing

🤯 Wireless USB Setup	
Ready to install Wireless USB	9
Click Install to begin the installation. Click Back to review or change any of y settings. Click Cancel to exit.	your installation
<u>B</u> ack Install	Cancel

Step 5: For the software installation, click "Continue Anyway" to continue installing the software.



Í	Software Installation
	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why this testing is important.</u> ) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway
Step	6: Click Finish to complete the Wireless USB installation
	137 Witteless USB Serup
	Completed the Wireless USB installation
	Click the Finish button to exit.
	<u>Back</u> <u>Einish</u> Cancel

**Install DisplayLink Software** Select the preferred language and click automatically check for updates, and then click "I Accept" to install the DisplayLink Manager



Install DisplayLink Software for DisplayLink Graphics	X
	yLink
English	5.1.20461.0
SOFTWARE END USER LICENCE AGREEMENT FOR	
DISPLAYLINK MIRROR DRIVER and DISPLAYLINK GRAPHICS ADA SOFTWARE	APTER
(THE "PROGRAM")	
This is a legal agreement between you, the end user, ( <b>"You")</b> and Disp (UK) Limited ( <b>"DisplayLink"</b> ). BY INSTALLING THIS SOFTWARE, YO AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT.	olayLink )U ARE
Some versions of this software, once installed, will check for updated software at least once and then again at regular intervals unless you spe disabled this feature when given this option. No personal informat information about your PC or the software installed on your PC is sen update servers during this process. Accepting the End-User License Agr means that you accept this product feature.	system ecifically ation or it to our reement S
Automatically check for updates Click I Accept	Cancel

# Hardware installation

After inserting the Wireless USB dongle into the computers USB Port, the user needs to follow the system guidelines in order to install the Wireless USB dongle.

Step 1: It is recommended to select "Install the software automatically" to install the Alereon WUSB Radio Controller interface and click "Next" to start installing the driver.

Found New Hardware Wiz	ard
	Welcome to the Found New Hardware Wizard
	This wizard helps you install software for:
901	Alereon WUSB Radio Controller Interface
	If your hardware came with an installation CD or floppy disk, insert it now. Recommended
	What do you want the wizard to do?
	<ul> <li>Install the software automatically (Recommended)</li> <li>Install from a list or specific location (Advanced)</li> </ul>
	Click Next to continue.
	< <u>B</u> ack <u>N</u> ext > Cancel



Step 2: To install Alereon WUSB Radio Controller Interface, click "Continue Anyway" to continue to install the software

Hardwa	re Installation
	The software you are installing for this hardware:
	Alereon WUSB Radio Controller Interface
	has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why this testing is important.</u> )
	Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Step 3: Click "Finish" to complete the Alereon WUSB Radio Controller Interface installation



Step 4: Select "Install the software automatically" to install Alereon WUSB Host Adapter, click "Next" to start installing the driver.





Step 5: To install Alereon WUSB Host Adapter, click "Continue Anyway" to continue to install the software

Hardwa	re Installation
	The software you are installing for this hardware: Alereon WUSB Host Adapter has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

Step 6: Click "Finish" to complete the Alereon WUSB Host Adapter installation



Found New Hardware Wiz	ar d
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: Alereon WUSB Host Adapter
	Click Finish to close the wizard.
	< Back Finish Cancel

Step 7: It is recommended to select "Install the software automatically" in order to install Alereon Wireless USB Graphics Adapter w/Audio and click "Next" to start installing the driver.

Found New Hardware Wiz	ar d
	Welcome to the Found New Hardware Wizard This wizard helps you install software for:
	If your hardware came with an installation CD or floppy disk, insert it now. Recommended What do you want the wizard to do?
-	<ul> <li>Install the software automatically [Recommended]</li> <li>Install from a list or specific location (Advanced)</li> <li>Click Next to continue.</li> </ul>
	KBack Next > Cancel

Step 8: To install Alereon Wireless USB Graphics Adapter w/Audio, click "Continue Anyway" to continue to install the software



### Hardware Installation



The software you are installing for this hardware:

Alereon Wireless USB Graphics Adapter w/ Audio

has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)

Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

Continue Anyway STOP Installation

Step 9: Click "Finish" to complete the Alereon Wireless USB Graphics Adapter w/Audio to finalize the installation process.

Found New Hardware Wiz	ear d
	Completing the Found New Hardware Wizard The wizard has finished installing the software for:
	Alereon Wireless USB Graphics Adapter w/ Audio
	Click Finish to close the wizard.
	K Back Finish Cancel

# Using Wireless USB Manager Running Wireless USB Manager

Before the system has been connected the screen will show "Not Connected"



ger	>
Rules Options Communications	
AL5721-DWA-130589 Connected: 5 days ago Hub device	
Wireless USB Manager	
	Rules Options Communications          AL5721-DWA-130589         Connected: 5 days ago         Hub device

# Select Connection Rules item

To connect a device for the first time the user must form an association

Wireles	USB Manager
Devices	Connection Rules Options Communications
-Cabl	e associations
For a	ssociations created using a USB cable:
C	Always allow associations 💋
•	Require my permission KClick
C	Never allow associations
To co	wireless associations are not allowed. nnect a device for the first time, you must form an association ing secure communications.



#### **System Association**

Enter pin code to associate with your computer



Enter pin code "Alereon!" and click "Complete the association with this device"





Association is successful



# **Device Connection**





# Using DisplayLink Manager

After the driver is installed, a utility (DisplayLink Manager) will automatically appear in the system tray. The utility allows you to quickly change the settings and resolution for DisplayLink Manager. Right click on the icon will bring out the context menu.



**Screen Resolution:** Select the screen resolution (available only in extended mode).

NOTE: When the display has a built in EDID the screen will show the displays resolution, if no EDID is present the screen has the following resolution (see below image)





**Color Quality:** Select the screen color quality (available only in extended mode).



Screen Rotation: Rotate the screen on the additional monitor by 90, 180 or 270 degrees.





**Extend to:** Reposition the extended screen to the top, bottom, left or right of the primary display.



**Extend:** Set the DisplayLink Manager to Extended mode.

Updates	×	
Screen Resolution	F	
Color Quality	►	
Screen Rotation	۲	
Extend To	F	
<ul> <li>Extend</li> </ul>		-
Set as Main Monitor		<b>P</b>
Notebook Monitor Off		
Mirror		
Off		
Advanced		L OB
	-	



Updates ۲ Screen Resolution ۲ Color Quality ۶ Screen Rotation ۲ Extend To ۲



Notebook Monitor off: Set the PC/notebook's monitor off.





Set as Main Monitor: Set the monitor to be the main monitor.

*Mirror:* Set the DisplayLink Manager to Mirror mode. You can see the same desktop image on the additional monitor.



Off: Disable the DisplayLink Manager on the system.





**Advanced:** Opening the **Display Properties** will allow you to adjust the resolution, color quality, position and refresh rate.



### Using More DisplayLink manager

You don't have to install a new driver as long as you have completed the above installation process in advance. It will automatically define the ID of the new Display Link Manager and will list everything in the Display properties or the display manager menu.

DisplayLink Manager	
Updates	3.6
2. DisplayLink Device	(USB_0130-000001) >
3. DisplayLink Device	(USB_0130-000001)►
3. DisplayLink Device	(USB_0130-000001)

**NOTE:** When connecting more DisplayLink Manager to a computer, a system with higher CPU performance is recommended.

# Firmware Update

Click the  $\textit{Updates} \rightarrow \textit{Check Now...},$  to search for and download the latest firmware.

**NOTE:** Confirm that your computer is already connected to the network.



ERS.T

#### Automatic Update

Click the **Updates**  $\rightarrow$  **Configure...**, the **Updates Options** window will appear as shown below. You can set the update method and frequency in the windows.

tes	Updates Options
een Resolution or Quality een Rotation end To end as Main Monitor	Check Frequency Do not check for updates automatically. Check and prompt me to download and install the updates. Check and automatically download and install: Check Frequency: 7 days. Next Notification: 11:44:52 AM Thursday, May 15, 2008
or	Options Downloads Folder: C:\Program Files\USB-VGA-HDMI Display Adapter\update: OK Car

#### Uninstall the Device Driver

Follow the steps below to uninstall the Multi View driver. Step 1: Open the Control Panel: Start  $\rightarrow$  Control Panel  $\rightarrow$  Add or Remove

#### Programs.

Step 2: Select USB-VGA-HDMI DisplayLink Adapter and click Remove.

🐻 Add or Rer	nove Programs			
5	Currently installed programs:	Show updates	Sort by: Name	~
Change or Remove	13 Attansic Ethernet Utility		Size	3.78MB
Programs	13 Attansic L1 Gigabit Ethernet Driver		Size	3.78MB
14	📃 DisplayLink Core Software		Size	9.25MB
Add New	19 High Definition Audio Driver Package - KB888111			
Programs	Realtek High Definition Audio Driver		Size	47.55MB
P	SB to HDMI Converter			0.71MB
Add/Remove	Click here for support information.		Used	rarely
Windows	To remove this program from your computer, click Remove.			Remove
	19 WinFast(R) Display Driver		Size	4.96MB
Set Program Access and				
Defaults				



**Step 3:** Click Yes to confirm the removal.



Step 4: Click Yes to restart your computer.

Your	ust rost:	art uour eus	stem for t	he confic	uration
chang	jes made	e to Displa	yLink Co	re Softwa	are to take
effect	Click Y	es to resta	irt now o	No if you	u plan to
	allu roota	rt later			



# Installation





# Specifications

Input Port	1 x Mini USB
Output Ports	1 x HDMI, 1 x D-Sub 15pin, 3.5Φ phone jack
Extender Ports	2 x USB Hubs (A type)
Power Supply	5V DC/2.6A (US/EU standards, CE/FCC/UL certified)ESD Protection
Human body model:	± 8kV (air-gap discharge)± 4kV (contact discharge)
Dimensions (mm)	
	Transmitter: 81(W) x 25(D) x 11(H)
	Receiver: 90(W) x 120(D) x 25(H)
Weight(g)	Transmitter: 22
	Receiver: 120
Chassis Material	Transmitter: Plastic
	Receiver: Plastic Silkscreen
Colour	Transmitter: Black
	Receiver: Metal Black
Power Consumption	Receiver: 8W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

