MULTIPOINT USB OVER LAN Workstation

USER MANUAL

MWS9943

MWS9940

(v.1_20130430)

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MULTIPOINT USB OVER LAN Workstation

INTRODUCTION

Thank you for purchasing the MultiPoint Workstation. The MultiPoint Workstation is designed specifically for Windows MultiPoint Server 2012. Simply connect it to an available Gigabit Ethernet Port on the server, and attach a monitor, keyboard, and mouse to add a new workstation. The MultiPoint Workstation features Two (Three) high-speed USB 2.0 ports, audio and microphone ports, Gigabit LAN port, a VGA port that supports resolutions up to 1920 x 1080, and a power switch that can also reset this device. Add up to ten MultiPoint Workstation per server. The MultiPoint Workstation provides an inexpensive and reliable way to expand your Windows MultiPoint Server 2012 for school and office running "office application"; "Home Entertainment" and "Full Screen Movie Playback" are not recommended.

FEATURES

- Ethernet connection the host server with distance free
- Simple plug and play setup
- Eliminates the need for internal video card installation
- Designed for Microsoft Windows MultiPoint Server 2012
- Simplified administration
- Up to 10 WorkStations per Server PC

PACKAGE CONTENTS

- MultiPoint Workstation
- VESA Mounting Kits
- 3A/5V AC Power Adapter
- CD (Driver and User Manual)

MULTIPOINT USB OVER LAN Workstation

APPLICATION

MWS9940
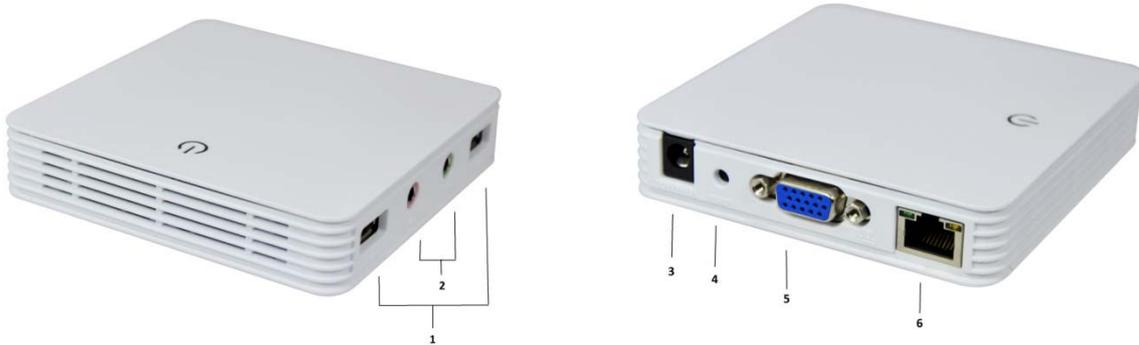
1. Two High-Speed USB Ports
2. Stereo Audio Output (Microphone & Headphone)
3. AC Power Jack
4. Reset Button
5. VGA (DB-15) Port
6. Giga LAN (RJ-45) Port

MWS9943
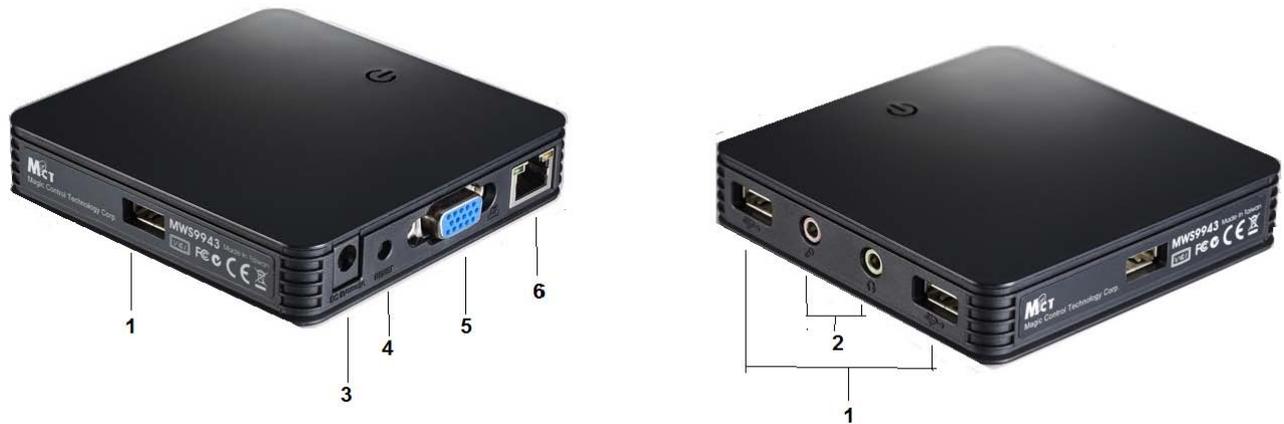
1. Three High-Speed USB Ports
2. Stereo Audio Output (Microphone & Headphone)
3. AC Power Jack
4. Reset Button
5. VGA (DB-15) Port
6. Giga LAN (RJ-45) Port

MULTIPOINT USB OVER LAN Workstation

SPECIFICATIONS

		MWS9940	MWS9943
Server OS Support		Window MultiPoint Server 2011/2012	
Host Connecting Interface		RJ-45 Connector	RJ-45 Connector
I/O Ports	Gigabits Ethernet RJ-45 Connector	1	1
	USB 2.0 Ports for keyboard and Mouse	2	3
	Stereo Audio Output – Headphone port and Microphone port	2	2
	VGA-Type video output (DB-15)	1	1
	Reset Function Button (Clear Assignment and Recall Factory Defaults)	1	1
	Power Jack	1	1
Product Dimension:		98 x 98 x 21 mm	98 x 98 x 21 mm
Mounting Kit		Support 100 x 100 (mm) VESA holdes	Support 100 x 100 (mm) VESA holdes
Power Supply		Input: 110~240 VAC / 5V ; Output: 3A	Input: 110~240 VAC / 5V ; Output: 3A
Power LED		V	V
Case Material		ABS	ABS
Product Weight		Without mounting kit: Approx. 122.5g	Without mounting kit: Approx. 122.5g
Working Current		≦ 500mA (Self-Power)	≦ 500mA (Self-Power)
Operating Temperature		0 to 40°C	0 to 40°C
Operating humidity (Rh)		10% ~85%	10% ~85%
Regulatory compliances		FCC, CE, C-tick, VCCI, RoHS	FCC, CE, C-tick, VCCI, RoHS

SUPPORTED DISPLAY RESOLUTIONS

Aspect Ratio	Resolution	
16:9	1920 x1080	1600x900
	1280 x 720	1360*768
16:10	1680 x 1050	1440 x 900
	1280 x 800	
4:3	1600 x 1200	1400 x 1050
	1280 x 960	1152 x 864
	1024 x 768	800 x 600
5:4	1280 x1024	
15:9	1280 x 768	

MULTIPOINT USB OVER LAN Workstation

MINIMUM SYSTEM REQUIREMENTS

Number of Users	4	6	10
CPU (*Note.1)	Quad-core processor		
Recommended	Intel Core i5	Intel Core i5	Intel Core i7
Main Board Chipset	Intel Ivy bridge chipset / Intel Sandy bridge chipset		
RAM	3GB	4GB	8GB
Minimum disk space for setup	32GB		

*Note.1:

✓ x64-based Intel Pentium, Intel quad core (i7, i5, i3), XEON, Intel dual core. Compatible processor (MultiPoint Server supports up to four core & eight core CPUs on one server)

✓ Multi-core processor support. Support up to 4 & 8 multi-core processors; dual-core is less powered and therefore only 2 to 3 workstation can be supported.

✓ AMD Opteron / Athlon, AMD Embed chipset is not recommend due to unstable keyboard/ mouse operation which may not recognize under USB1.1 device.

✓ For Optimum Video Display.
Extended video display at full screen is not recommended; it often exhausts CPU and force system with much lower performance.

✓ Intel Itanium Processor is not supported

✓ Microsoft's license policy is restricting for 10 users per CPU under "Standard Academic version", you can apply for 20 users only if your computer has 2 CPU and your OS license is a "Premium Business version".

➢ FOR OPTIMUM VIDEO DISPLAY

Full screen video display is not recommended, user may try one station for full screen video play back under 720P periodically. a higher system may required for full screen video play back, please refer to following specification:

- i7 processor
- Intel Sandy bridge chipset
- Intel Ivy bridge chipset

Note: Extended video display at full screen is not recommended; it often exhausts CPU and force system with much lower performance.

MULTIPOINT USB OVER LAN Workstation

MAC ADDRESS REMARKING

Assuming multiple server is required, gathering all station HUB (MultiPoint Workstation) first, grouping desired Station Hub in quantity while suite each server's seats, start peeling every (MultiPoint Workstation) MAC Address Label and paste on handbook according to the designated Server Name. It is strongly suggested that all Server administrators follows these steps, please use this handbook as for your important record for MAC address location note below, therefore to avoid confusing when you need to change station hub or add additional hub later.
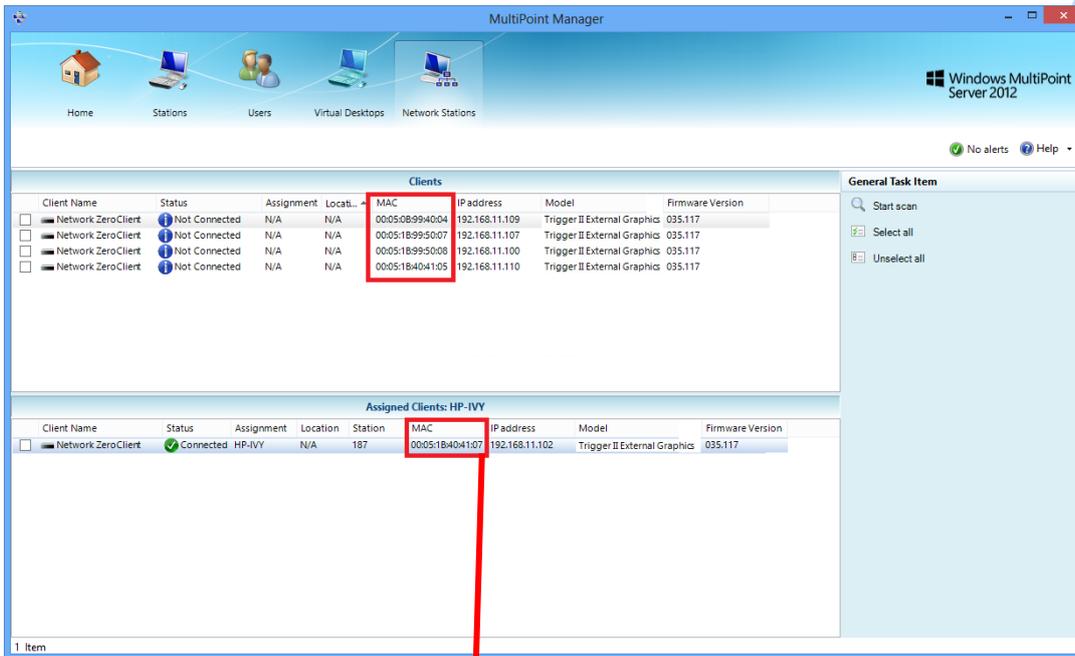
Server A

No.	MWS400UL MAC address	Remark
1	00:05:1B:40:41:07	Station 7

Server B

No.	MWS400UL MAC address	Remark

DEVICE INSTALLATION - SOFTWARE

Installing the device driver enables Windows MutliPoint Server 2012 to recognize the MultiPoint Workstation. Please make sure the MultiPoint Workstation is unplugged from your server before executing the setup program.

A Windows update must be completed before installing this Driver, if you have completed Windows update you may skip step 2 and step 3.

Step 1.

Insert the Driver installation CD into the CD-ROM drive. The installer should start automatically. If it does not, double click **Setup.exe** to start the Installation Wizard.

Step 2.

This Driver will detect if you had most recent Windows update, click OK to check updates
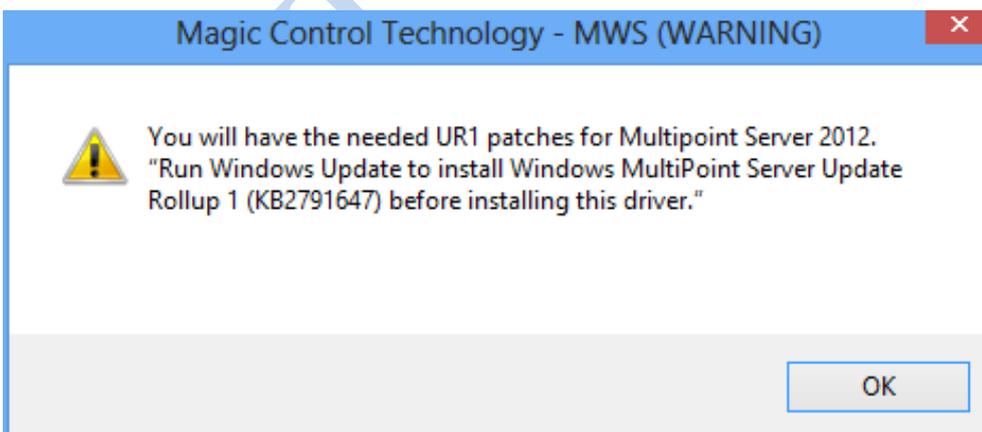
Step 3.

Follow the step showed below: click "**Check to Update**" on the left hand. Due to Windows update complication, it is very important to repeat this update step for a few times until you see "**You're set to automatically install updates**" has pop out, because there are more than 50 scalable files to be update that requires multiple repeats to complete all.

(Note : The system might remind to restart you system for several time).
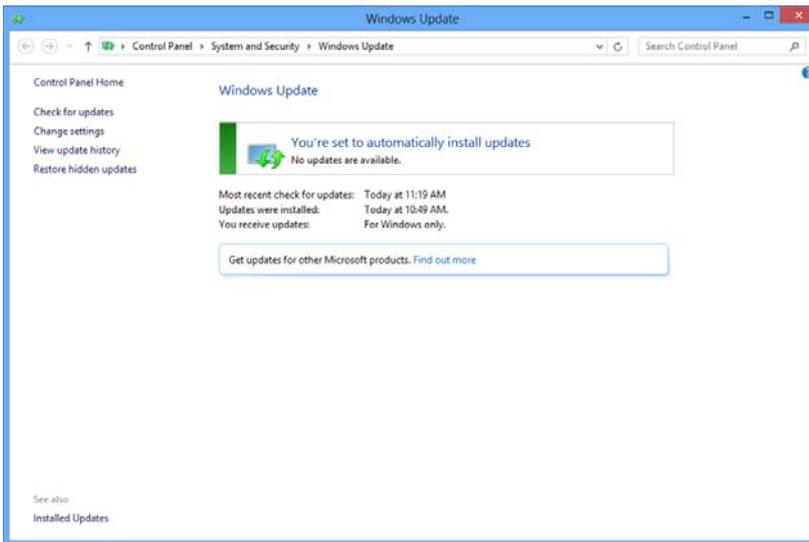
Step 4.

Driver Installation Wizard, click **Next** to continue

9
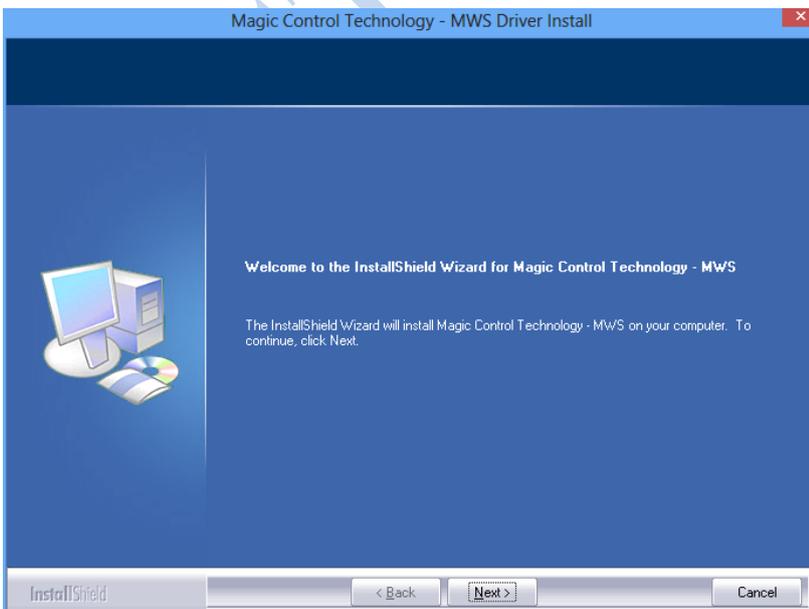
Step 5.

License Agreement; review it and check **I accept the terms of the license agreement**
Click **Next** to accept the License Agreement.
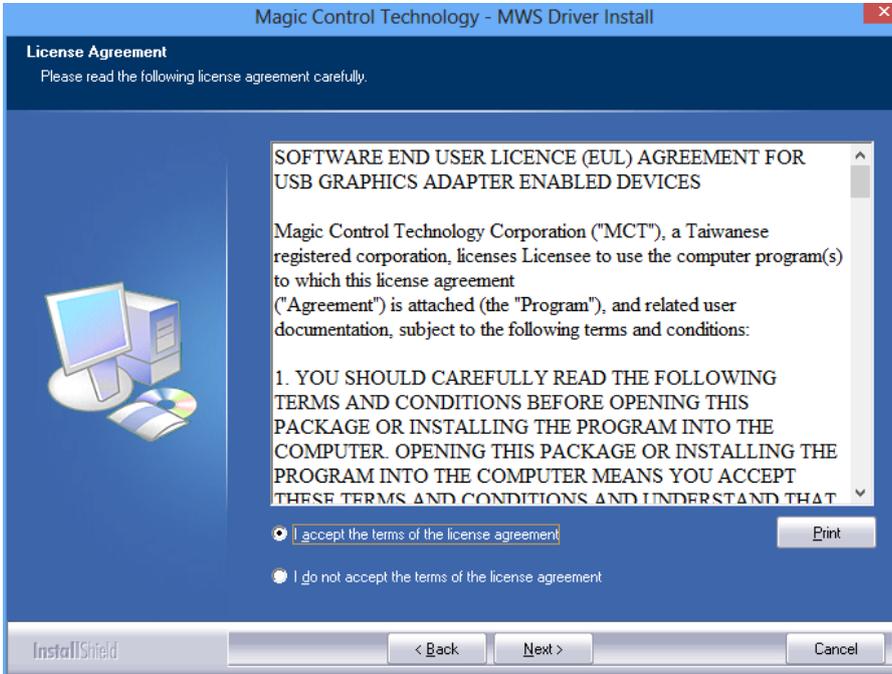
Step 6.

Setup is searching for installed features... *You may notice the screen flashes during hardware installation. It is part of the normal process. .
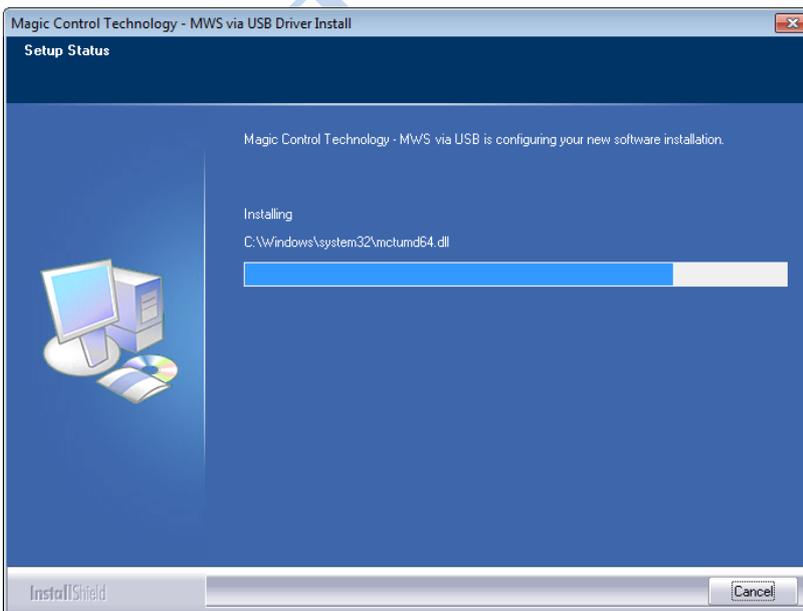
Setup is searching for installed features...

Step 7.

Driver Installation Wizard, click **Finish** to continue and restart the computer.

DEVICE INSTALLING - HARDWARE

Step 1.

Connecting monitor to the VGA connector of the MultiPoint Workstation, turn on the monitor. Connecting power adapter, Giga LAN cable, keyboard, and mouse to the MultiPoint Workstation.

Noted:

Plugging keyboard/mouse directly into main system USB ports is prohibit, administrator need to use an intermediate USB root hub for both keyboard & mouse connections from main system.

Step 2.

Connect one end of the Giga LAN cable to the MultiPoint Workstation and the other end to an available Giga LAN port of Router. The driver installation will proceed automatically.

Step 3.

Repeat steps 1 & 2 for the remaining MultiPoint Workstation on to other workstation.

DRAWING OF HARDWARE INSTALLING VIA GIGALAN PORT
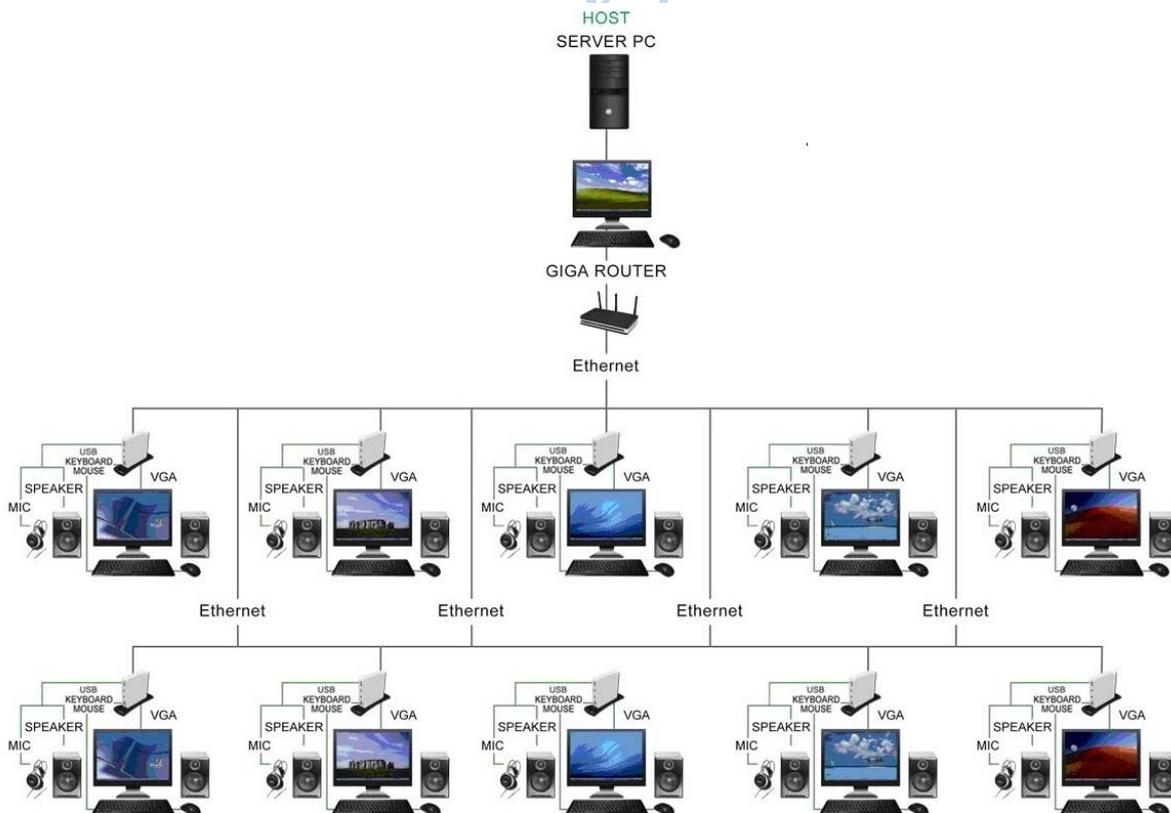
THE STATION ASSIGNMENT AND FUNCTION SETTING

Step 1.

Before run "**MultiPoint Manager**", please follow the illustration below:

1-1 Log-in as administrator and press "**Windows**" key from keyboard.
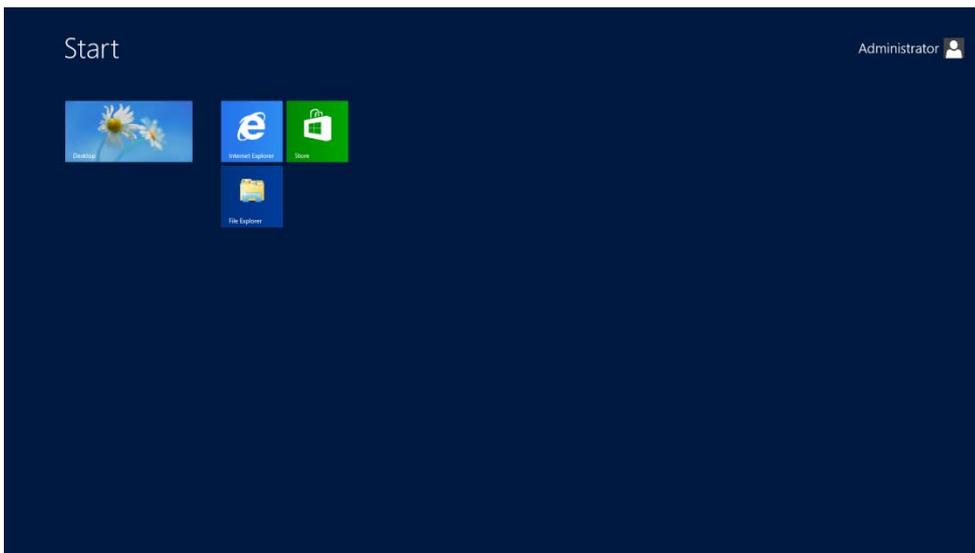
1-2 Type "**WmsManager**"

1-3 Run "**WmsManager**" by left click to launch "**MultiPoint Manager**".

Step 2.

Click "**Network Stations**" as showed:
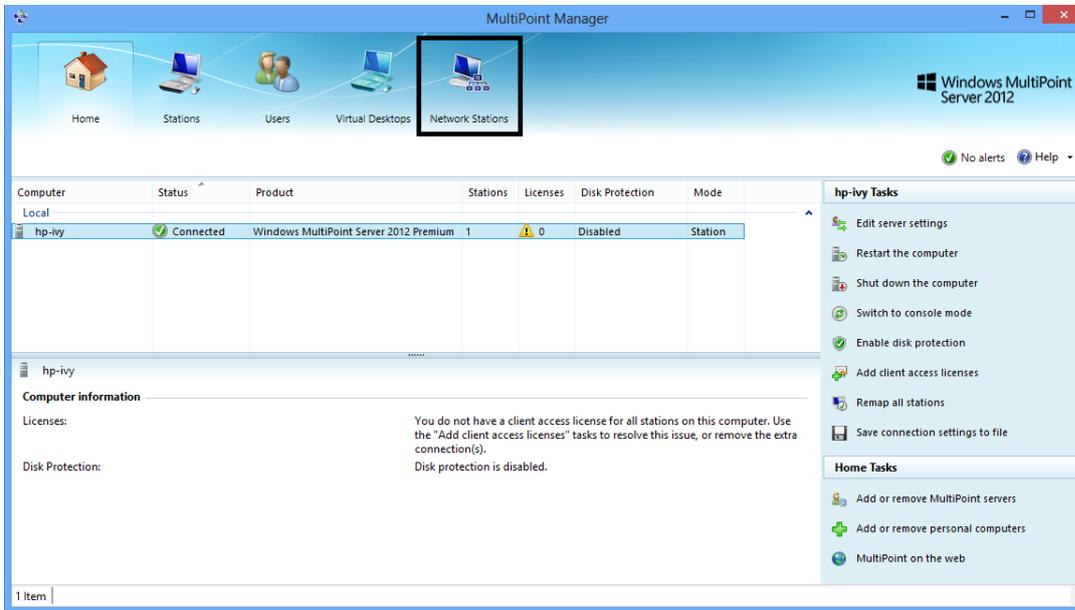
Step 2-1

Choose one of the station from"☑" and click "**Assign to this server**" to assign the station
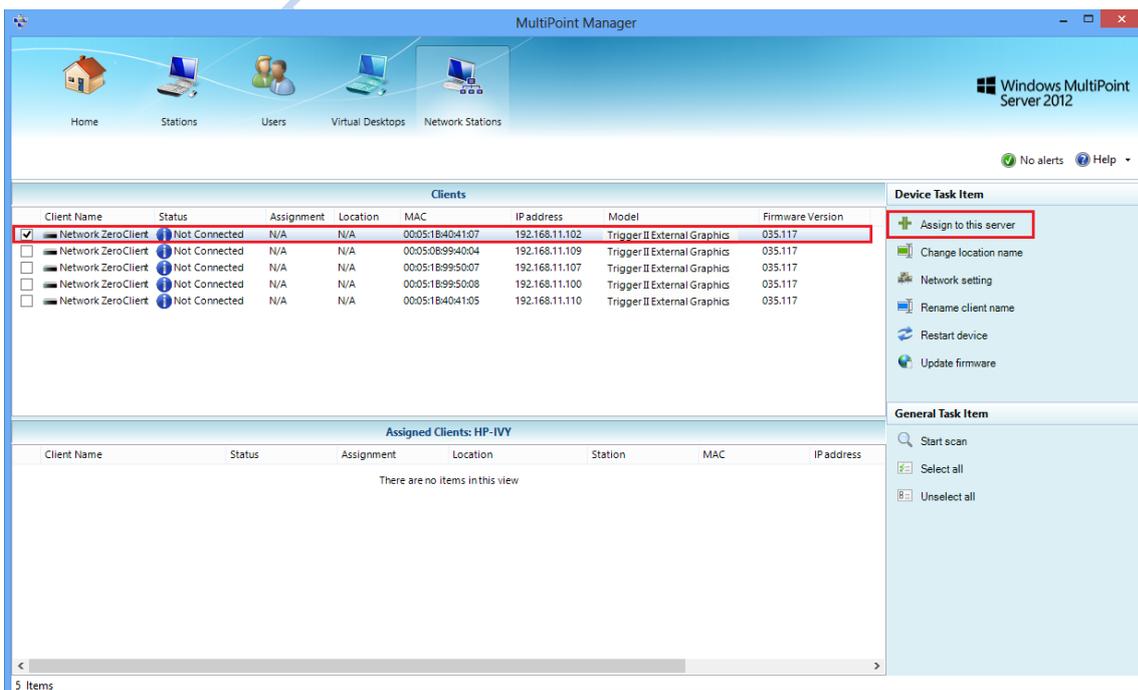
.

Step 2-2

This screen is asking to assign to this host server. Click "**Yes**" to confirm.
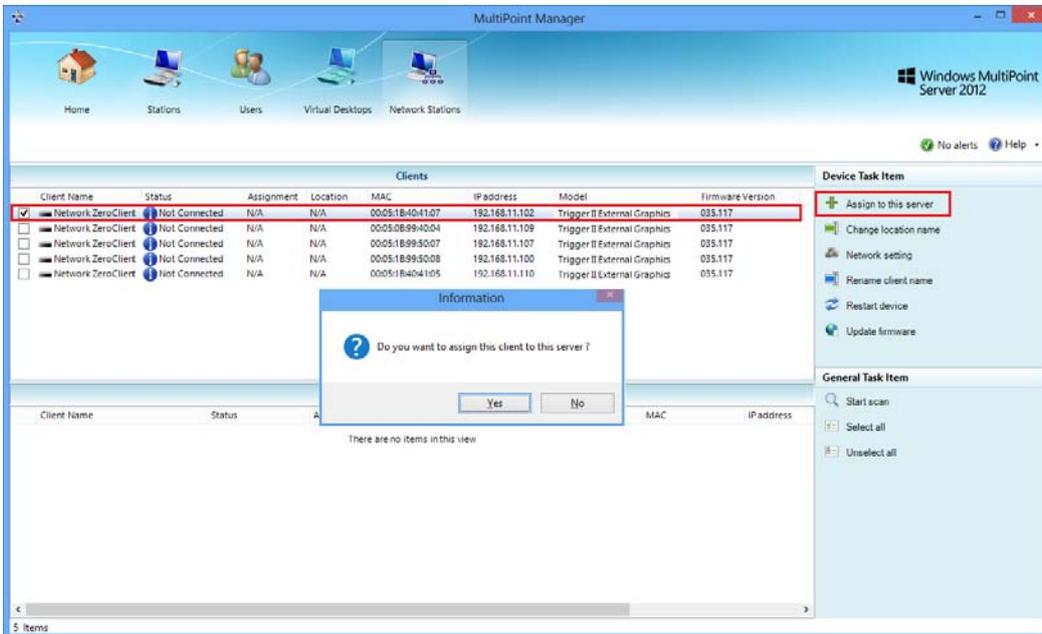
Step 2-3

The choose station has been assign succeed.
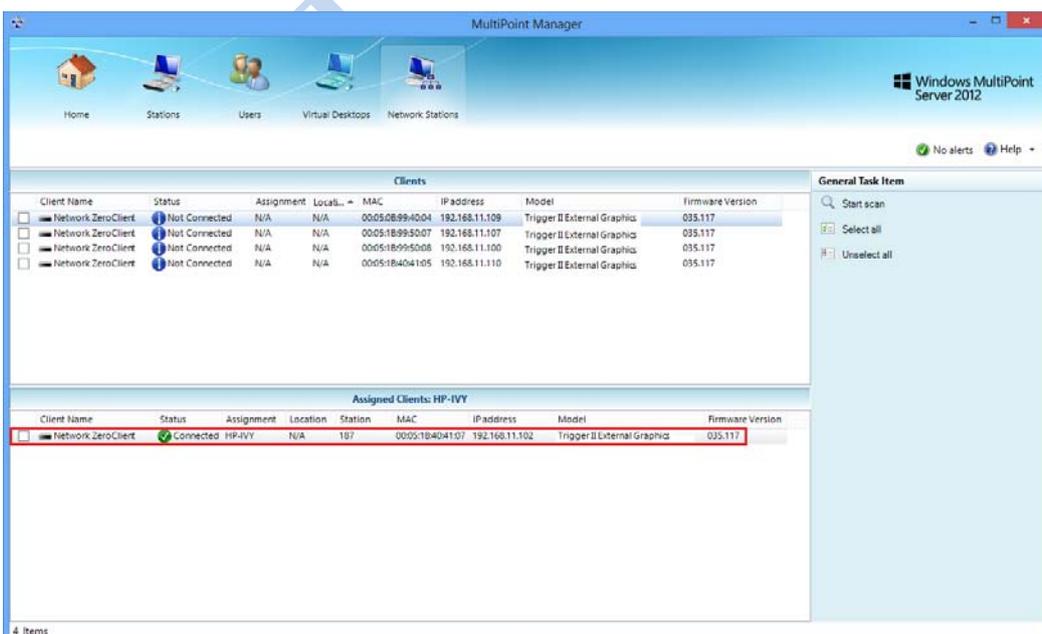
** You also can assign multi-stations to the host server at the same time. **

For example: When there is 5 workstation HUB is connected, It shows 5 stations on the screen which are free / waiting for assignment inside the "status" column indicating as "not connected".
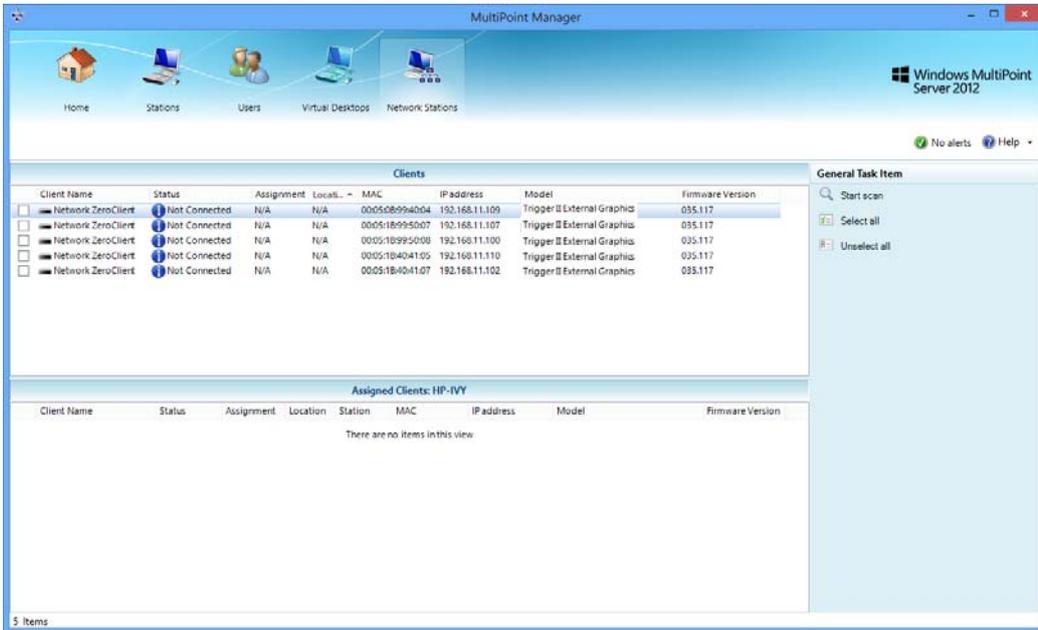
Step 2-4

Click the " **Select all** " to select all stations.
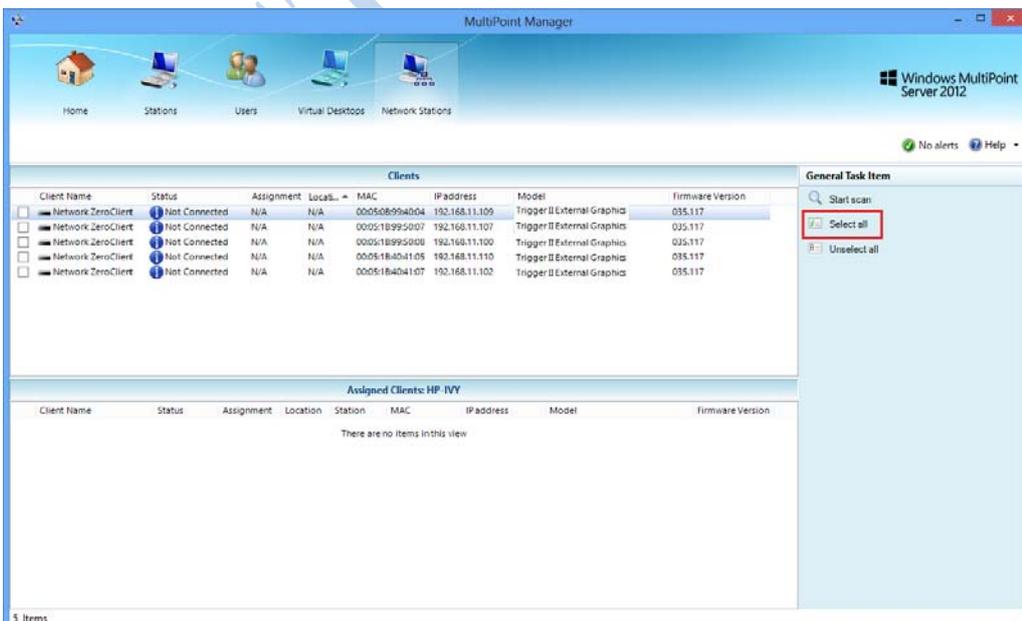
Step 2-5

Select " **Assign to this server**".
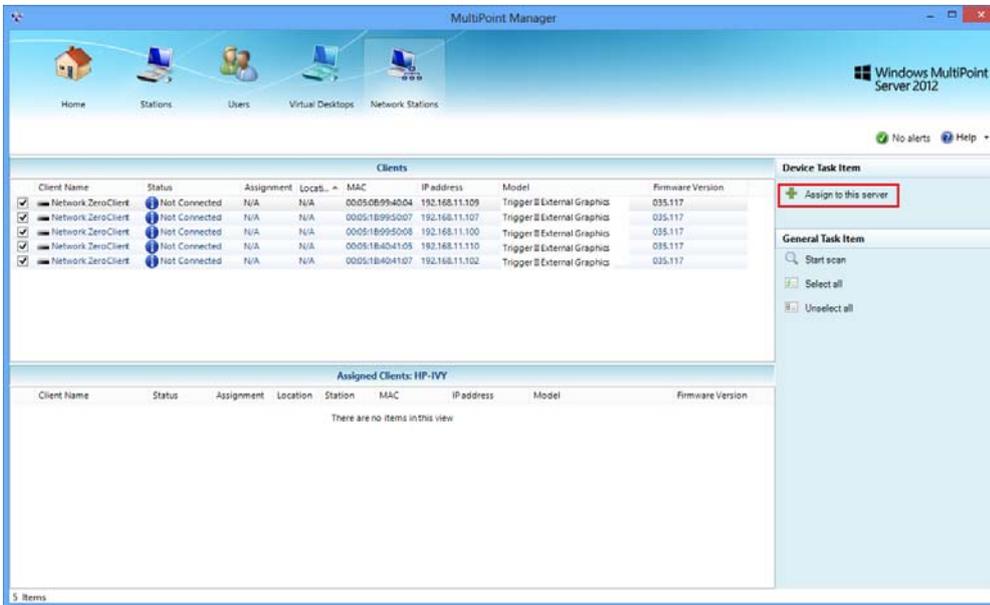
Step 2-6

Click "**Yes**" to complete all the station assignment. Repeat the same process of **step2–2** for the any other one of the station you desire to select for station assignment.
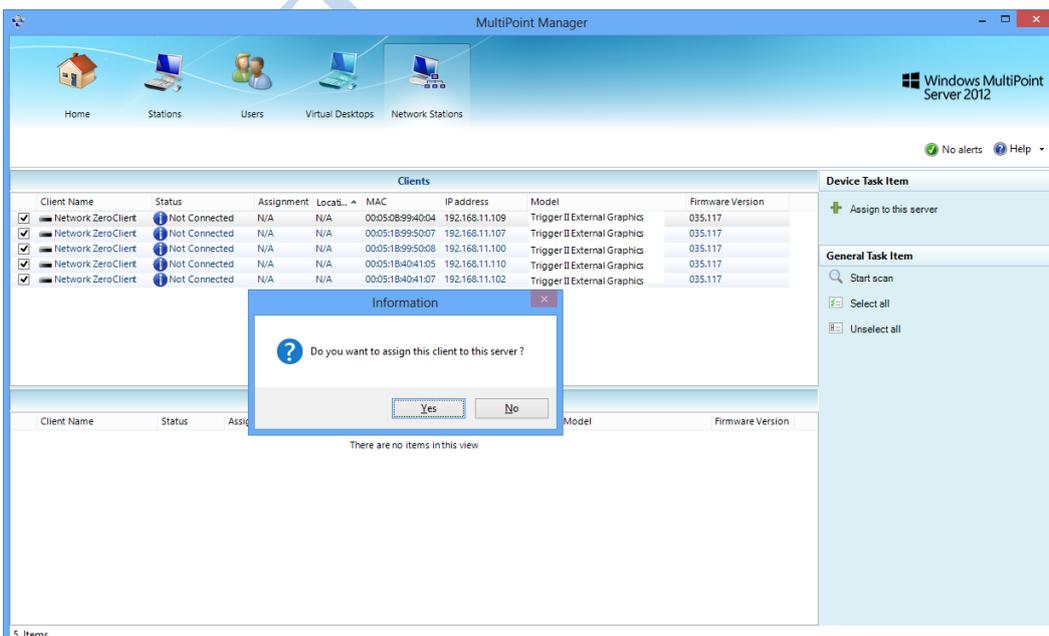
NOTE: If any one of the stations needs to be disconnected, please select the station and Click " **Clear Assignment** " under "**Device Task Item**" on the right panel of the screen then click "**Yes**" while the dialog pop up for disconnection.
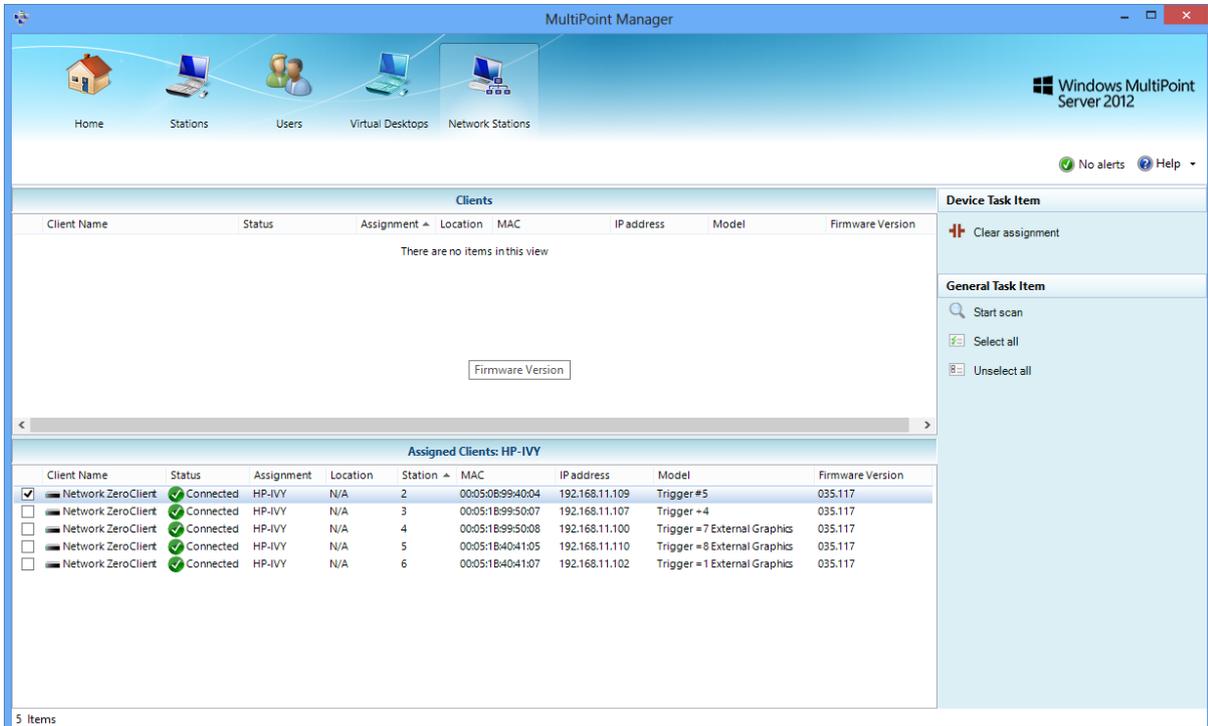
If all of the stations need to be disconnected, simply click "**Select All**" at the right column under "**General Task Item**". After that, you will find all of the stations are selected as the blocks **"□"** and click "**Clear Assignment**" then click "**Yes**" while the dialog pop up for disconnection.
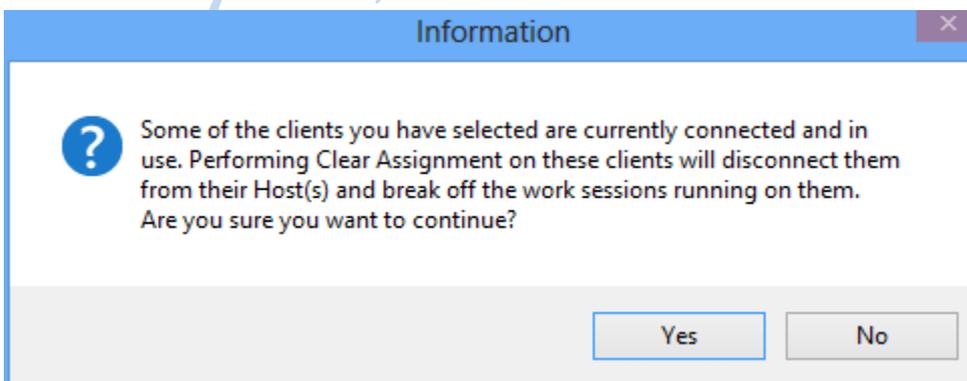
STATIONS RENAME

Renaming the station may convenient administrator recognizing MAC address location by his own design, it needs to be done before station gets assignment.

Rename step:

1. Select station "☑" by one left click.

2. Left click on "**Rename client name**" at right panel.

3. Rename dialog will pop up then typing desire name (e.g. CL1-John, CL2-Josh)

4. Click "**Submit**" to complete.
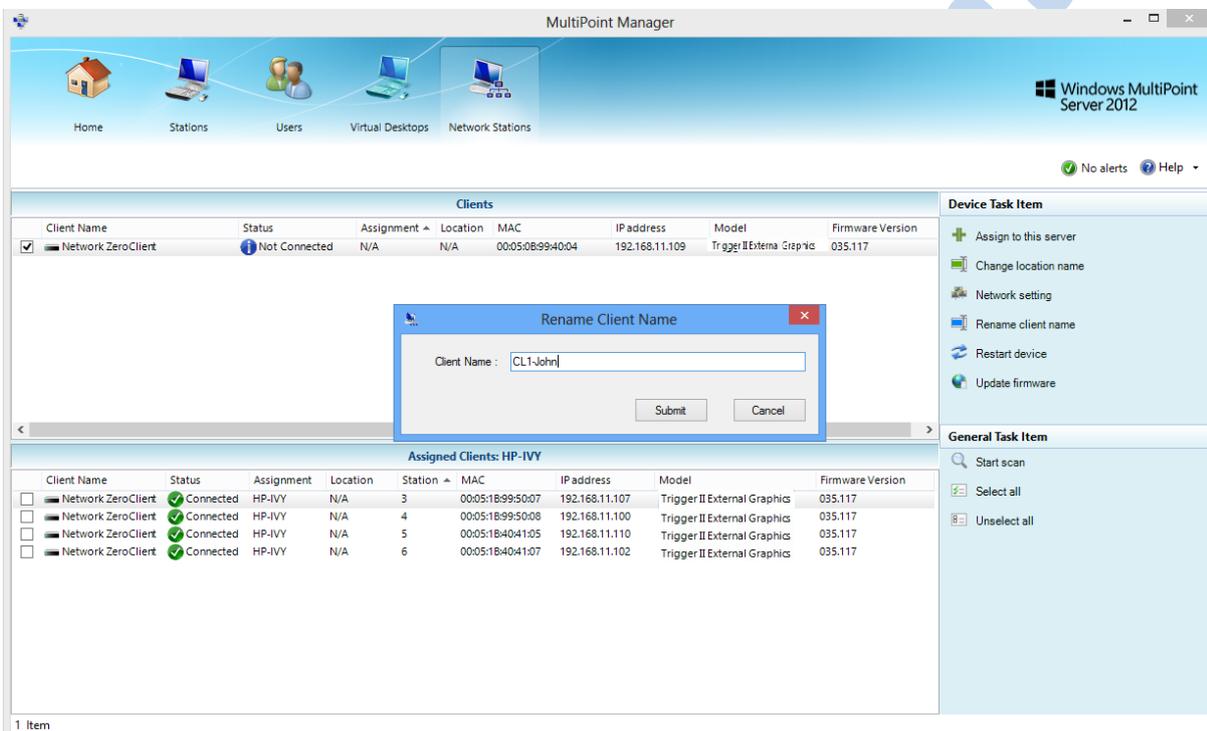
NETWORK SETTING

A Local Area Network setting to be prioritized either by Static IP or Dynamic IP for this Server, This Network setting needs to be done before station gets assigned. <u>**"Dynamic IP"**</u> <u>is recommend with Router Device</u>:

Select station by one left click highlight Left click on "**Network setting**" under Device Task Item .

Network setting dialog will pop out then left click the DHCP for auto distributing the IP address or manually type the IP address then click "**Submit**" on the dialog to complete.

RESTART DEVICE

Restart Device function can be use when there are some station did not recognize keyboard/mouse. "**Restart device**" needs to be done before station gets assignment.

Restart device step:

Select station by one left click highlighting Left click on "**Restart device**" under "Device Task Item." Click "**Yes**" on the dialog to complete.
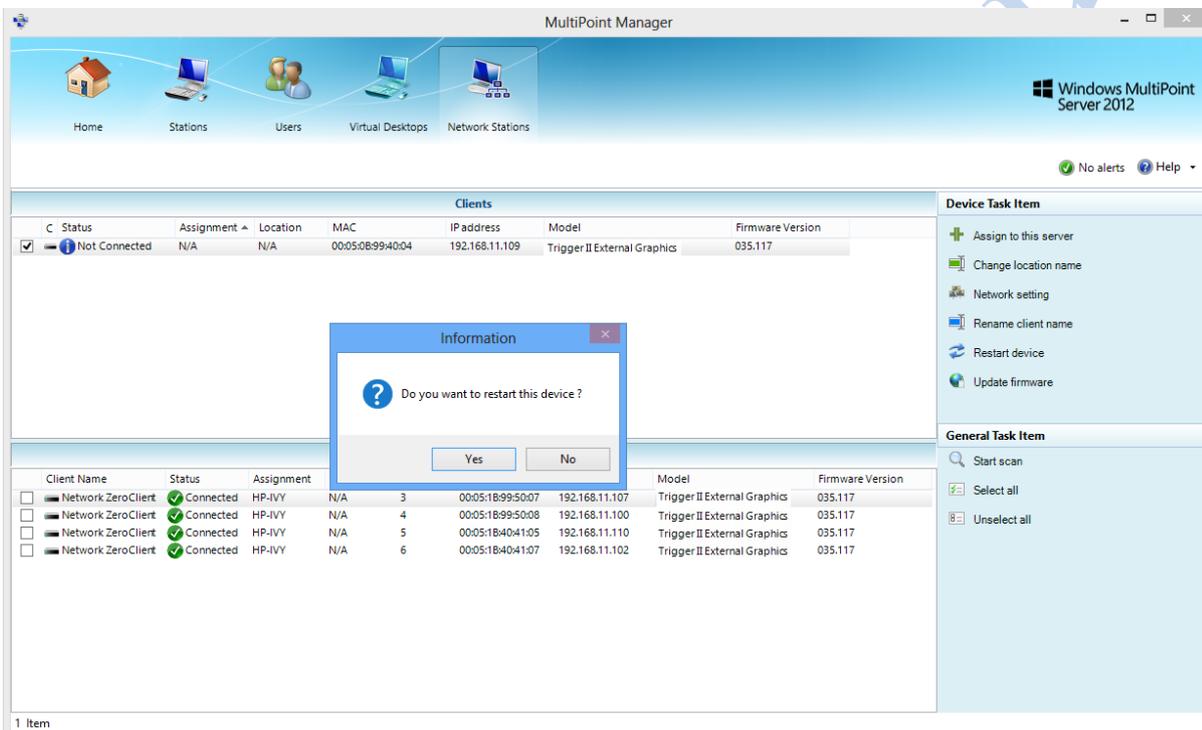
ADJUSTING THE SCREEN RESOLUTION

By default, Windows MultiPoint Server 2012 will select the recommended resolution for each connected display. However, if you would like to choose a different resolution, follow these steps:

Step 1.

Before run "**MultiPoint Manager**", please follow the illustration below:

1-1 Log-in as administrator and press "**Windows**" key from keyboard.
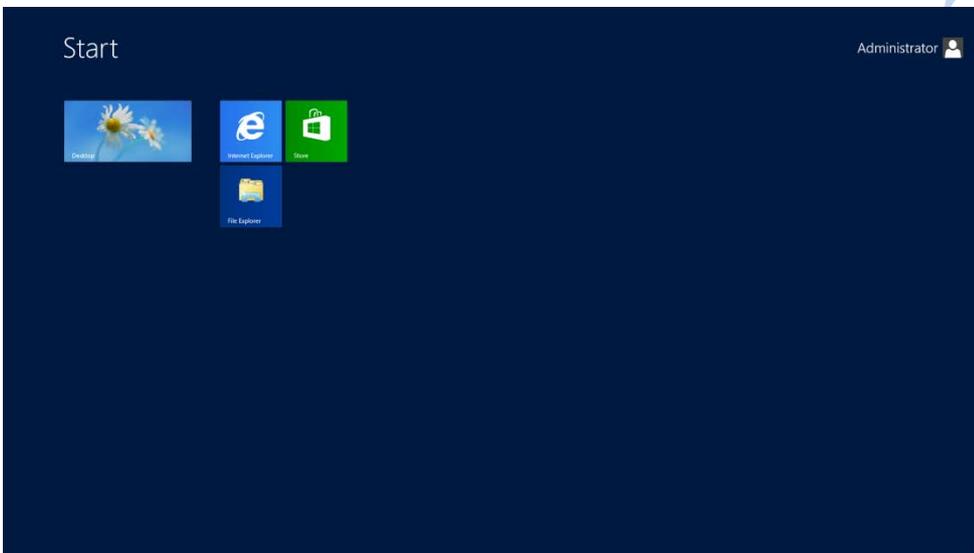

1-2 Type "**WmsManager**"

1-3 Run "**WmsManager**" by left click to launch "**MultiPoint Manager**".

Step 2.

Click "**Home**" ➜ "**Switch to Console mode**"
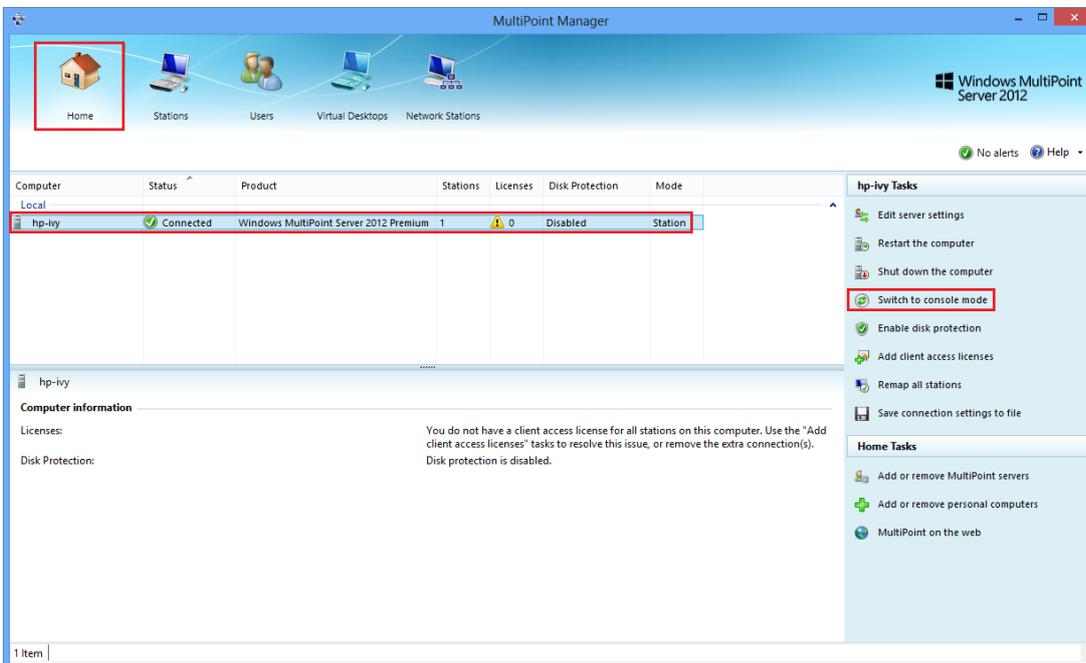
Step 3.

Click "**OK**" to continue
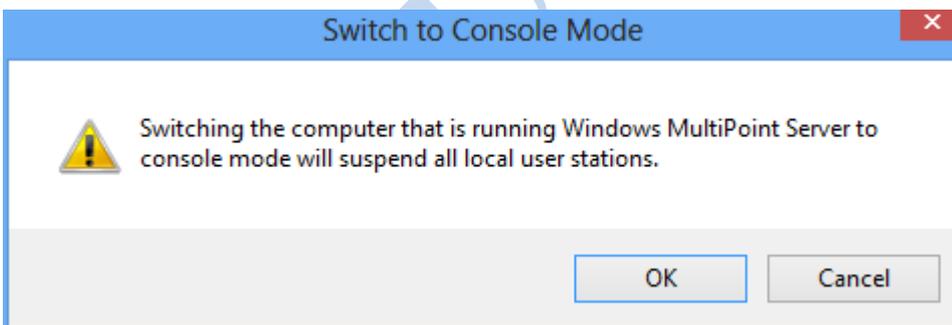
Step 4.

Press "**Ctrl + Alt + Delete**" to log in administrator into "**Console Mode**"

Step 5.

Left click on the desktop task bar and choose **"USB Display Device"** as illustration.
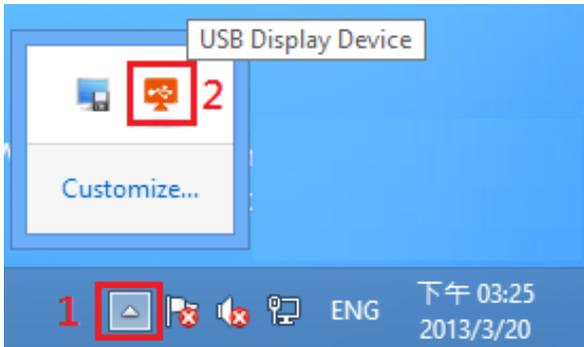

Step 6.

Click "**Identify"** to identify all station display.
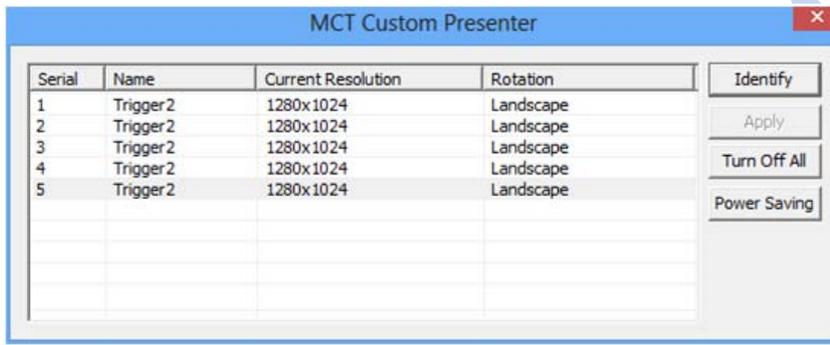
Then click on the display serial number to adjusted and choose the desired resolution from the "**Current Resolution"** dropdown menu ,Then click "**Apply**" to finish resolution setting.
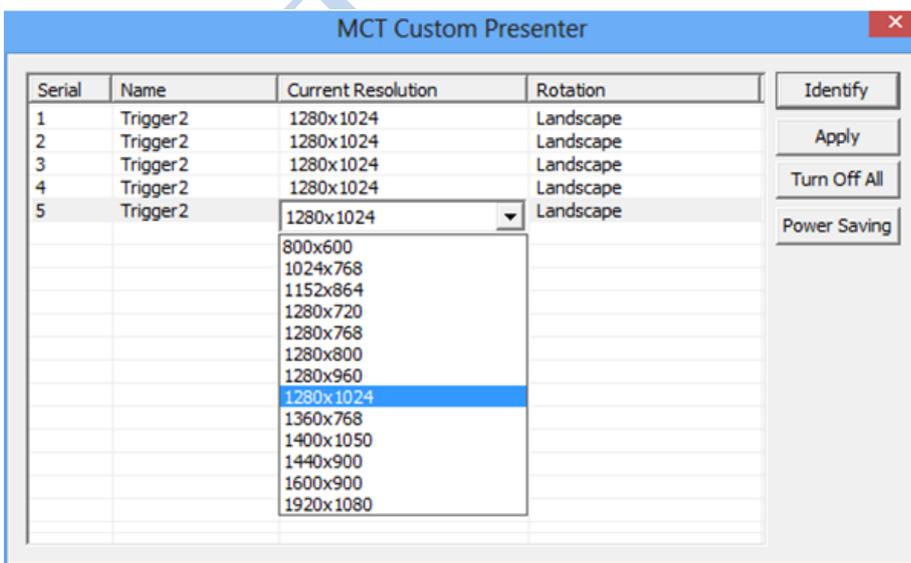
ADJUSTING THE SCREEN ROTATION

Click on the display serial number to adjusted and choose the desired rotation from the **"Rotation"** dropdown menu ,Then click "**Apply**" to finish resolution setting.
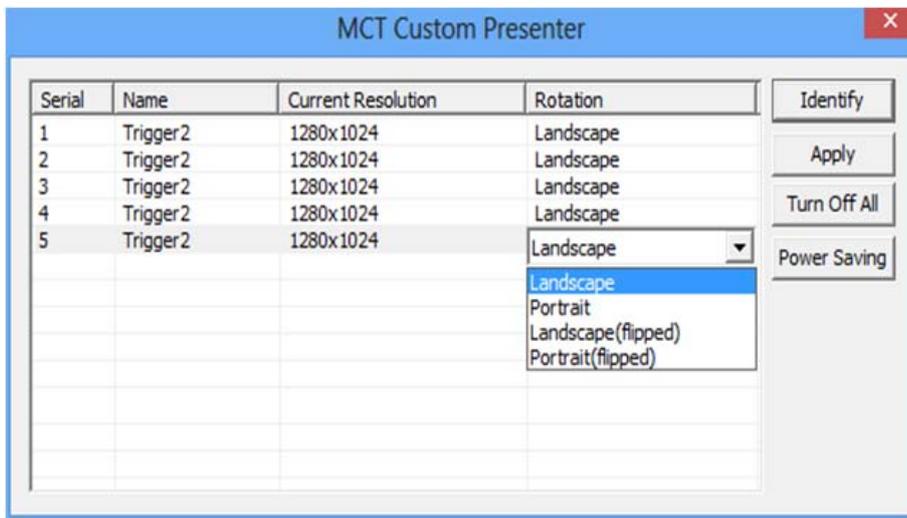

SETTING TURN OFF ALL MONITOR

*This feature can only perform under console mode, if you are at Station Mode, you will need to switch to Console Mode.

*Turn Off All Monitor is to convenient user to identify each Monitor's number:

Click **"Turn off all"** button to turn off all display/monitor, this act is only enable under console mode, that convenient user to identify each device/monitor's ID number.
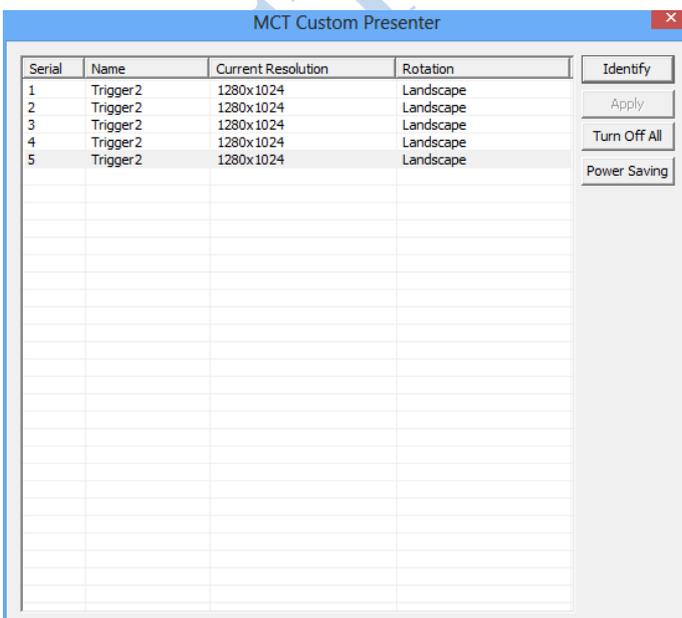
SETTING POWER SAVING

*User can turn-off all display monitor without turning off computer in order to save power from monitors, this feature is to be initiate under Console Mode and will function on Station Mode:

1. Switch to Console Mode first, and Click **"Power Saving"** button:
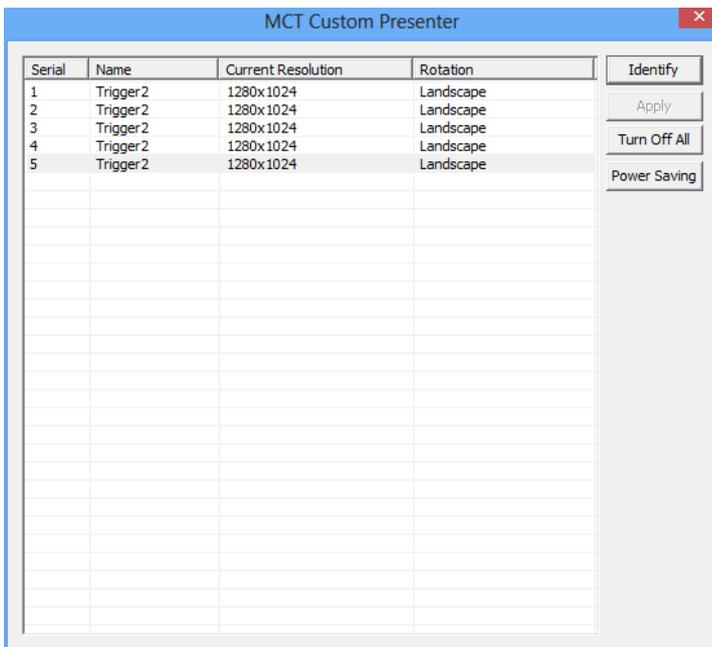
2. The system has been set default value by -"**Never"**, you will need to chose your desired time length as a time clock for the Power Saving Action and then click OK to complete the Power Saving feature.
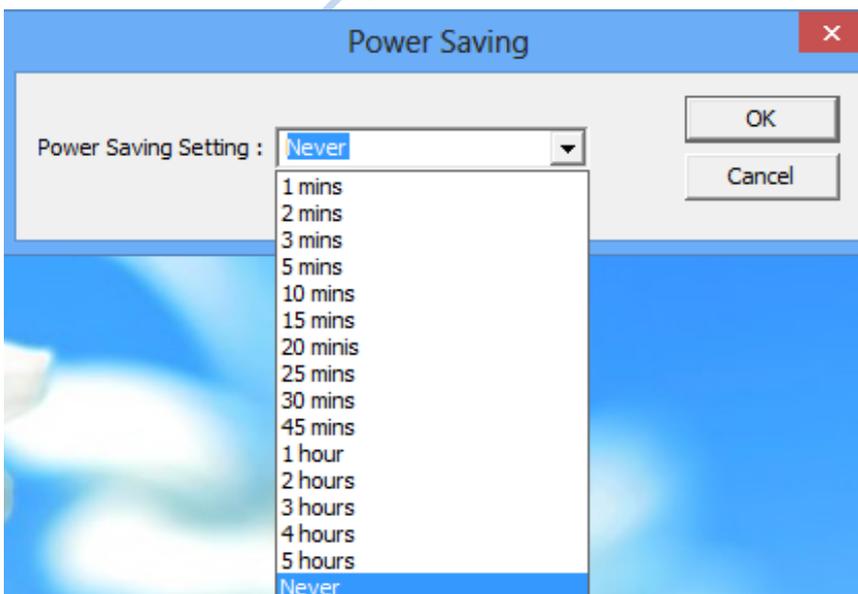
3. You will need to switch back to Station Mode, and the **"Power Saving"** will initiate after the time clock you have set above, you will need to go to **"Start"** page in order to initiate the Power Saving Function, this Power Saving function will not initiate if you switch to any other display pages; your display will idol under **"Start"** page for the length of the clock you have set previously, and display will turn black after your setting clock initiated. For example: once you set Power Saving Clock by 5 minutes, the **"Start"** page will be idol for 5 minutes and display start turn black afterwards.
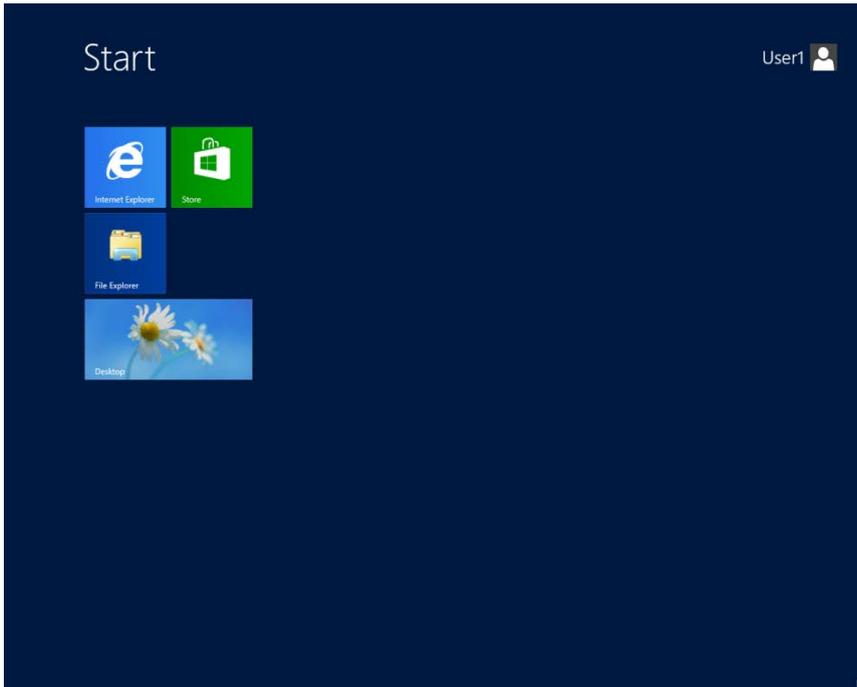
4. To wake up Power Saving monitor: touch any key form keyboard or moving mouse will wake up monitor.

DEVICE DRIVER UN-INSTALLATION

You need "switch to Console mode" Before doing the uninstall process.

The following procedure allows you to uninstall the MultiPoint Workstation device driver. Please make sure all MultiPoint Workstation are unplugged from your server before executing the device driver un-installation program.

Step 1.

1. Press "**Windows**" key from keyboard ➜ 2. Click "**Control Panel**" .
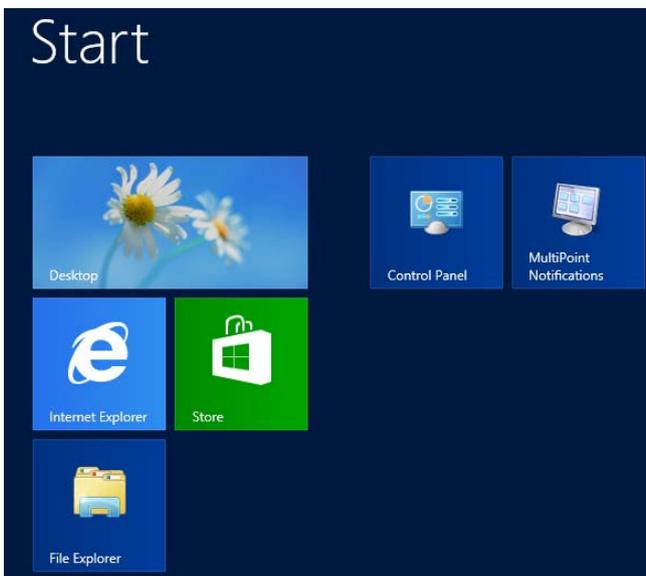
Step 2.

Click "**Uninstall a program**" as illustrated on the screen.
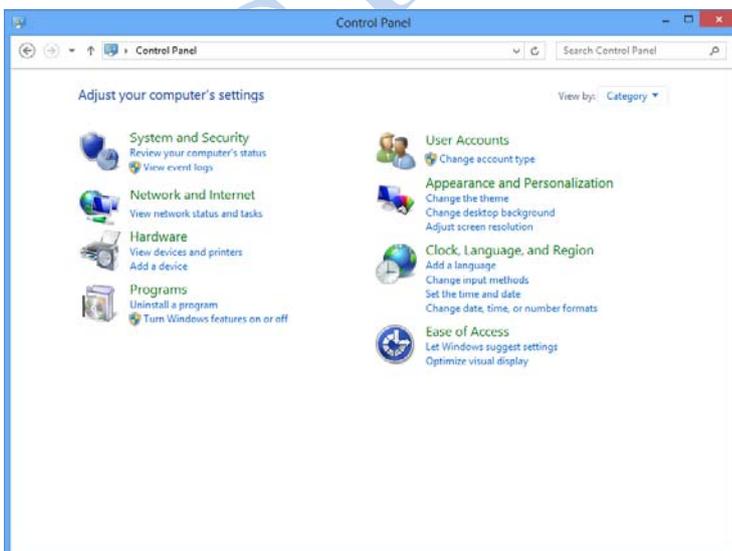
Step 3.

Select the "**Magic Control Technology – MWS xx.xx.xxxx.xxxx**" item. Click Uninstall button.
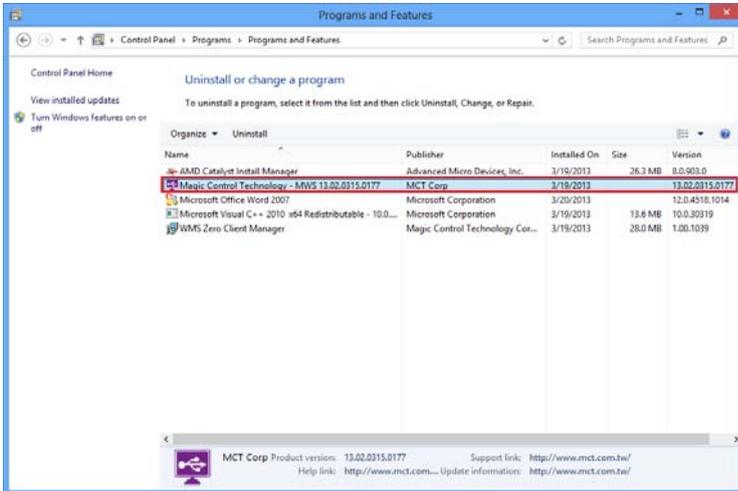

Step 4.

Click "**OK**" to continue
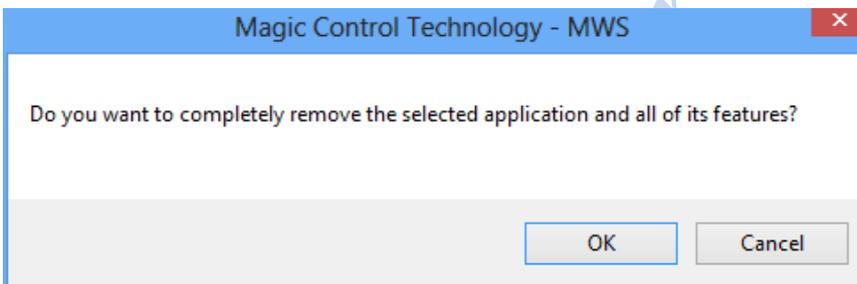
Step 5.

Select "**Yes**", I want to restart my computer now**"** and click "**Finish**" to reboot. The driver is now uninstalled.

VESA MOUNTING
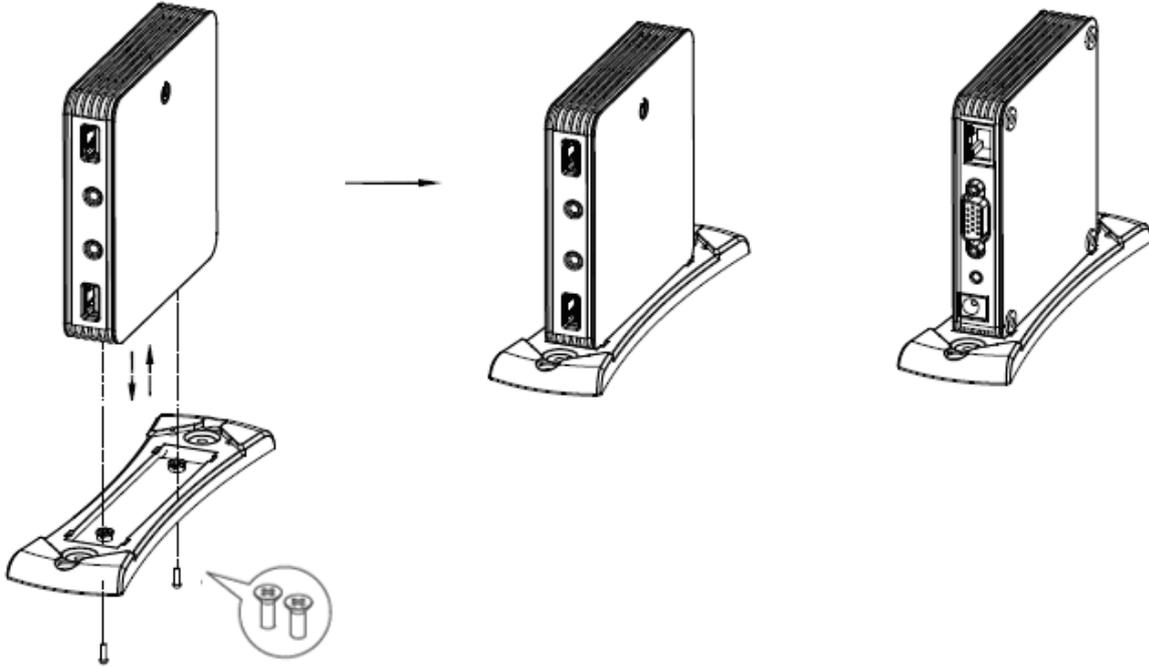
SETUP 1

SETUP 2
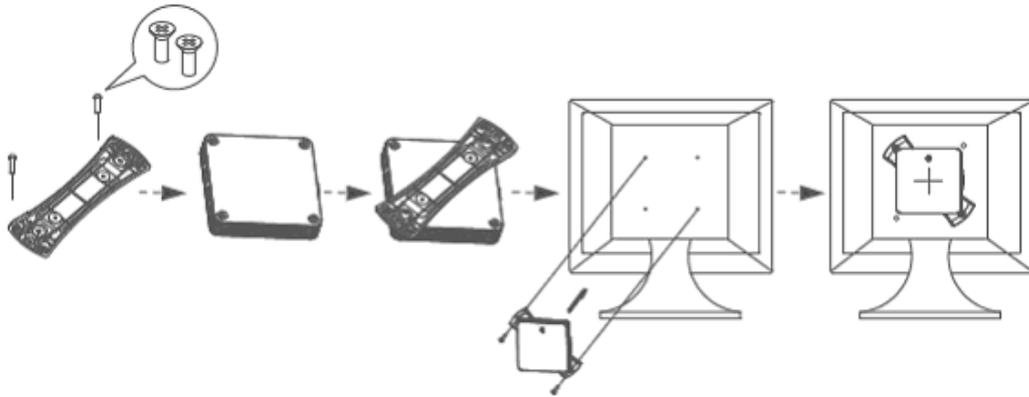
TROUBLESHOOTING TIPS

The following troubleshooting tips may help if you are experiencing any difficulties using our device.

- Plugging keyboard/mouse directly into main system USB ports is prohibit, administrator need to use an intermediate USB root hub for both keyboard & mouse connections from main system.

- Check to make sure that all connectors are plugged in correctly.

- Make sure to restart the server after the driver installation.

- Check the website to make sure you have the latest drivers.

- Reset/refresh/resynchronize your monitor.

- Full screen video display is not recommended; use Intel Sandy Bridge chipset may help with better performance.

For immediate support, visit http://www.mct.com.tw to find the latest documentation, Knowledge Base articles, and software for your device.