Table of Contents

1. Description for the Multimedia Workstation product kit ........ 2
2. Preparing for installing of the Multimedia Workstation kit ... 4

3. General Recommendations ................................................. 6
4. Installation flowchart (A) .................................................... 9
   Installation flowchart (B) ................................................... 10
5. Quick installation .............................................................. 11
6. Installation Procedure ....................................................... 12
7. To Know the MMU 2000/XP Software .................................. 36
8. Q & A .................................................................................... 47
   Appendix (A) Register the Serial number ............................... 53
   Appendix (B) Unregister ..................................................... 60

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2. Microsoft Windows is Microsoft Corporation’s registered trademark for the U.S. and in countries around the world.
1. Description for the Multimedia Workstation product kit

The Multimedia Workstation, a multiple users multimedia workstation, allows the adaptation of a Multimedia Workstation kit, together with some simple peripheral equipment, i.e. keyboard, mouse and monitor, to share the resources of a computer with other workstation users, allowing all users linked to the system to profess a full web browser features.

With the Multimedia Workstation kit and a high-performance PC, users can install up to four to seven workstations to reduce operating costs, more efficiently use computer resources, and optimize multimedia access by multiple users.

Illustrated configuration of the Multimedia Workstation kit:

Accessories (option):
1. DC5V/2A adapter
2. PCI VGA Card
3. USB A to B cable
### Specifications of the Multimedia Workstation kit

| Multimedia Workstation | One USB B-type port can be upwardly connected to a PC’s USB port or hub.  
| Two USB A-type ports can be downwardly connected to other USB devices.  
| Two PS/2 ports can be linked to a PS/2 keyboard and mouse.  
| One speaker Out port can be linked with an earphone or the speakers.  
| One Line-in can be connected with a microphone.  
| Fully certified by the CE, FCC, C-Tick and VCCI safety standards. |
| SIS 305/315 PCI Display Card | Built-in 32MB/16MB memory cache  
| Fully compatible to PCI 2.1 specifications  
| Fully certified by the CE, FCC safety standards |
| USB Cable | One USB 3 meter-long USB A-B port cable |
| Transformer | Output rated at DC 5Volts/2 Amps.  
| Fully certified by the CE, FCC and UL safety standards. |
| MMU2000/XP Software | MMU2000/XP software in CD-ROM format |

### Connecting diagram for the Multimedia Workstation kit

![Connecting diagram for the Multimedia Workstation kit](image-url)
2. Preparing for installing of the Multimedia Workstation kit:

(1) Prepare a computer loaded with a complete installation of the Windows 2000 or Windows XP operating system.

(2) Unpack the Multimedia Workstation kit or two sets depending on how many additional stations you want to install, i.e. two kits for adding two additional workstations.

(3) Besides your existing computer’s peripheral equipment, you will need a monitor, speakers, or earphone (if sound needed), a PS/2 keyboard, and a PS/2 mouse for every newly added workstation.

Recommended specifications

Windows Operating System:
- A Windows XP Home/ Professional, or higher, operating system.
- A Windows 2000 Professional, Server, or Advanced Server.

CPU processor:
Pentium 500MHz or higher. Recommended minimal specs for operating three workstations or more call for a Pentium 1GHz or higher compatible system. For the best performance, it is suggested that the Main board supported the Hyper-Threading® and the CPU with the P4 2.4C FSB800 or higher.

HDD memory space:
It is recommended that there is at least 200MB of available space and a 7200RPM or faster and ATA100 or higher drive be used for the best performance.

Host PC power supply:
A power supply rating of 300 Watts or higher as many PCI cards may be added to the system.

Main board:
No specific requirements, it is suggested that the Main board has the Hyper-Threading® support.

Memory:
Minimal 256MB for the first Magic Mirror installation, with and additional 128MB or 256 MB for each station thereafter.

CD ROM:
Minimal 8X Speed CDROM or faster for software installation.

Recommended Display card:
- Main Console: It is recommended that an AGP display card or built-in AGP display card be chosen. But these two modes can not be display at the same time because of the limitation of the Main board.
- At workstations: In support of the MMU2000/XP software, the PCI display card would need to support the Microsoft Windows 2000/XP multi-screen display feature. Since not all display cards support multi-screen display, we do recommend that the following card: numbers be referred to in your card purchase.
<table>
<thead>
<tr>
<th>Display card by chipset maker</th>
<th>Display card chipset model</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIS</td>
<td>300/305/315/6326 series</td>
</tr>
<tr>
<td>nVidia</td>
<td>Riva TNT series</td>
</tr>
<tr>
<td></td>
<td>GeForce/GeForce2/GeForce4/GeForce FX series</td>
</tr>
<tr>
<td>ATI</td>
<td>Rage LT/128/GL</td>
</tr>
<tr>
<td></td>
<td>Radeon 7000/8000/9000 series</td>
</tr>
<tr>
<td>S3</td>
<td>Virge DX/GX</td>
</tr>
<tr>
<td></td>
<td>Savage 3/4</td>
</tr>
</tbody>
</table>

**Free PCI slots & the Multi-screen mode**

Every additional PCI display card will require an available PCI slot. After you have rebooted your computer upon installing the PCI display card, a yellow exclamation mark may appear on display card icon under the Device Manager prior to loading the MMU2000/XP software, this is normal and does not indicate that your system has not located the card, but rather that the card may not have been activated under the multi-screen mode. The additional card will be identified following a successful installation of the MMU2000/XP software.

If your display card comes with a dual CRT and/or DVI output mode (Dual Head or Display), such a card may allow the expansion of one workstation through the MMU software. A list of video driver versions that is compatible to a Dual Display Card installation is listed below. Please use only Windows-validated display drivers when installing the cards.

<table>
<thead>
<tr>
<th>DISPLAY card chipset</th>
<th>Driver Version</th>
<th>Web site where the latest drivers can be downloaded from</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATI</td>
<td>7000/7500/9000</td>
<td>6.13.10.6218</td>
</tr>
<tr>
<td></td>
<td>6.13.10.6218</td>
<td><a href="http://mirror.ati.com/support/driver.html">http://mirror.ati.com/support/driver.html</a></td>
</tr>
<tr>
<td>nVidia</td>
<td>GeForce2 MX-400</td>
<td>30.82</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.nvidia.com/content/drivers/drivers.asp">http://www.nvidia.com/content/drivers/drivers.asp</a></td>
</tr>
<tr>
<td></td>
<td>GeForce 4/FX</td>
<td>45.23</td>
</tr>
<tr>
<td></td>
<td>Series</td>
<td></td>
</tr>
</tbody>
</table>
The above dual display cards require the Windows XP operating system and version 4.02.111 of MMU2000/XP software. Please log on to our website, at http://www.mct.com.tw, for the latest version of MMU2000/XP.
### General Recommendations

#### Recommended hardware specifications

<table>
<thead>
<tr>
<th>Number of users</th>
<th>Application software</th>
<th>General applications</th>
<th>Standard applications</th>
<th>Advance applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 users</td>
<td></td>
<td>Word processing, Web browsing, Mail forwarding and retrieval</td>
<td>Word processing, Web page editing, Web browsing, 2D graphics, Mail forwarding and retrieval</td>
<td>Publishing, music, video, Windows games, CAD, 3D graphic</td>
</tr>
<tr>
<td>3 users</td>
<td></td>
<td>CPU: 800 MHz RAM:256 MB</td>
<td>CPU: 1.0 GHz RAM:384 MB</td>
<td></td>
</tr>
<tr>
<td>4~5 users</td>
<td></td>
<td>CPU: 1.0 GHz RAM:384 MB</td>
<td>CPU: 1.5 GHz RAM:512 MB</td>
<td></td>
</tr>
<tr>
<td>6~7 users</td>
<td></td>
<td>CPU: 1.5 GHz RAM:512 MB</td>
<td>CPU: 2.0 GHz RAM:768 MB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPU: 1.5 GHz RAM:512 MB</td>
<td>CPU: 2.0 GHz RAM:768 MB</td>
<td>CPU: 2.4 GHz RAM:1.0 GB</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

1. As the requirements may vary according to the configuration that you have chosen, we recommend that the above hardware specs for the best results.
2. Please double check the specs of your display card by referring to the preceding page for a listing of recommended display cards.
3. For the best performance, it is suggested that the Main board supported the Hyper-Threading® and the CPU with the P4 2.4C FSB800 or higher.

#### BIOS setting (AWARD BIOS)

1. **Please set the Display card’s startup sequence to AGP**
   To support simultaneous access of the AGP display card and the PCI display card, including a server built-in AGP display card, you will need to modify the display card’s startup sequence to **AGP**

2. **Means for defining the startup sequence**
   Start up your computer and access through the screen to enter the BIOS setting screen. Find option “VGA-Boot from,” or “Init Display First” under the “Integrated Peripherals” or “BIOS Features Setup” and have the option that you’ve located modified to “AGP” or “AGP/onboard.”
Note:
If you do not use an AGP display card, then please have your system’s startup sequence switched to PCI setting.
(3) **Reset the BIOS’s Power Management** (Award Modular BIOS)

Under the menu, reset the Power Management Setup, under the Power Management selection, to define Power Management as **Disable**.

Then press the “ESC” key to conclude your setting changes, and followed by “Save & Exit,” or the “F10” key to save the BIOS settings.

### Operating system settings

(1) Before setup the MMU2000/XP software, please make sure to screen the system with an anti-virus program, and ascertain that all peripheral equipment are working properly.

(2) Other users’ added and access management  (Refer to Q4 and Q7 in the FAQ for detailed setting process.)

New users may be added under the Control Panel → User Accounts, depending on the number of workstations you wish to add. Besides the Main Console that is defined as the system **Administrator**, all other users are appended as **Power User**.

(3) **Power setting**

MMU2000/XP software does not support power management, hence you will need to shut down the power management at the PC and various workstations. Therefore, you will need to access from Control Panel → Performance & maintenance → Shut down the monitor under power selection, shut down the HDD, and system standby to reset the fields as “Never,” meaning never to shut down.

(4) **Administrative Tools setting** (this setting is just under Windows XP Professional and Windows 2000)

Please access through Control Panel → Performance & Maintenance → Administrative Tools → Local Security Policy → Local Policies → User Rights Assignment to define the **shut down the system** only accessible by system administrators.

Or you may take to the conventional lookup mode as follows,

Control Panel → Administrative Tools → Local Security Policy → Local Policies → User Rights Assignment to define the **shut down the system** only accessible by system administrators.
It is recommended that you verify that the system has been loaded correctly and to backup the system hard disk.
Important notices for commonly used software

Applications
All users can share the same software, if:

(1) The software-license-agreement has been read and respected.

(2) The software allows multiple simultaneous sessions.

(3) The software is intended for multiple users. The ability for multi-user (as opposed to individual network user) must allow appropriate file locking for simultaneous access. If a program has Windows Terminal Server functionality nearly all requirements are fulfilled.

(4) Simultaneous access depends on the used software. MMU 2000/XP is a neutral add-on to Windows.

Drivers and Tools
At the moment there are no known problems relating to drivers and tools under Windows 2000/XP. However it is not possible to test all combinations and configurations.

Windows Operating System
Both legal and technical views exist about the use of Windows in Multi-user environments.

License
There’s a contradiction statement about the use of Windows itself. On the one hand Windows allows access to as many as 10 connections (not more exactly defined), to different services and even allows the use in a pool of multiplex hard - and software. However, the use of Windows is only allowed on one system (terminal, workstation). The user is a license partner and has a contract with Microsoft, therefore he must decide himself whether he is in compliance with the terms of his End User License Agreement.
4. Installation flowchart (A)

Step 1
Install the PCI VGA Card to the Main Board

Step 2
Upon starting up, connect the Multimedia Workstation to your computer’s USB port, connect the workstation’s peripherals, i.e. the speakers or earphone, PS/2 keyboard mouse and such to the computer.

Step 3
If your VGA Card is the ATI 8M PCI VGA Card or the S3 PCI VGA Card and working under Windows 2000, please install the driver with the MMU CD.

Step 4
Setup MMU2000-XP Software
Upon completing the installation, please do no shutdown the computer, just restart as directed.

Step 5
Upon starting up, access the MMU Console
To define the settings on the new workstation(s)’s peripheral equipment, i.e. the keyboard, mouse, sound device and such, then reboot your computer to activate the peripherals installed at various workstations.

Step 6
Observe to see whether the workstation’s various features are working properly, and adjust the monitor resolution at the various workstations.

Step 7
Register the Serial Numbers
If you wish to further expand the system to allow a multiple users sharing one computer, you will only need to purchase the product and install it with the exact steps provided above, but skip Step 3.
**Installation flowchart (B)**

1. **Step 1**
   - Upon shutting down your computer, insert the display card into the PCI slot, then restart your machine to install the PCI display card drivers.

2. **Step 2**
   - Upon starting up, connect the Multimedia Workstation to your computer’s USB port, connect the workstation’s peripherals, i.e. the speakers or earphone, PS/2 keyboard mouse and such to the computer.

3. **Step 3**
   - Setup MMU2000-XP Software

4. **Step 4**
   - Upon starting up, access the MMU Console to define the settings on the new workstation(s)’s peripheral equipment, i.e. the keyboard, mouse, sound device and such, then reboot your computer to activate the peripherals installed at various workstations.

5. **Step 5**
   - Observe to see whether the workstation’s various features are working properly, and adjust the monitor resolution at the various workstations.

6. **Step 6**
   - If you wish to further expand the system to allow a multiple users sharing one computer, you will only need to purchase the product and install it with the exact steps provided above, but skip Step 3.
5. Quick installation

Installation process

Step 1.
Please turn off your computer that has the Windows operating system installed. Insert the display card into the computer's PCI slot, and then reboot your machine. If your system is working on the Windows XP or the PCI VGA Card chipset is not SIS, please install the driver after reboot. (The VGA Card and the Monitor installation process please reference the original user guide by the chipset maker or monitor vendor)

Step 2.
Upon rebooting the computer, connect the Multimedia Workstation to the USB port, and have the workstation's peripherals, such as the speakers or earphone, microphone, PS/2 keyboard and mouse, connected to the Multimedia Workstation.

Step 3
If your VGA Card is the AT1 8M PCI VGA Card or the S3 PCI VGA Card and working under Windows 2000, please install the driver with the MMU CD.

Step 4
Setup the MMU2000/XP Software. (Please make sure not to shut down the computer upon loading but to restart the computer, instead.)

Step 5
Upon readying the hardware and setup the software, adjust the settings of the keyboard, mouse and sound devices in place before restart the computer.

Step 6
Observe to see whether the workstation's various features are working properly, and adjust the monitor resolution at the various workstations

Step 7
Register the Serial Numbers

Congratulations, now your computer is ready for access by two users at the same time. (If you wish to further expand the system to allow a multiple users sharing the resource of one computer, you will only need to purchase more Multimedia Workstation kits and install it with the exact steps provided above, but skip Step 3.)

If your PCI VGA Card is *SiS 305 PCI VGA Card*, please reference the *Installation flowchart (B)*, install VGA driver with the CD driver (V1.15).
6. Installation Procedure

Step 1  Insert the PCI display card into the computer

Please turn off the computer that has the Windows operating system installed. To insert the display card into the PCI slot before rebooting the machine, as shown in Fig. 1 and Fig. 2.
You don’t need to install the VGA driver under Windows XP which will install the driver automatically.

If your VGA Card is the ATI 8M PCI VGA Card or the S3 PCI VGA Card and working under Windows 2000, please install the driver with the MMU CD. (The VGA Card and the Monitor installation process please reference the original user guide by the chipset maker or monitor vendor)

Please enter the Device Manager after rebooting the computer. You can click the mouse right button to select Properties to enter the Device Manager, as illustrated in Fig. 3.

![Device Manager](image)

▲ Fig.3
After the VGA driver installation, you can see the PCI VGA Card install successfully under Device Manager.
If the Operation System of your computer is Windows XP and the PCI VGA Card is SIS 305, please install the card first then install the driver.

If the Operation System of your computer is Windows2000 and the PCI VGA Card is SIS 305, please install the driver first then install the card.

Please enter the Device Manager after rebooting the computer. You can click the mouse right button to select **Properties** to enter the Device Manager, as illustrated in Fig. 4.

▲ Fig.4  
After the VGA driver installation, you can see the PCI VGA Card install successfully under Device Manager.
Step 2. Install Multimedia Workstation

▲ Fig.5 The USB cable's terminal A, the flathead one, is connected to the PC’s USB port.

▲ Fig.6 The USB cable's terminal B, the square head one, is connected to the Multimedia Workstation.

▲ Fig.7 Connect the workstation’s peripherals, i.e. the mouse, keyboard, speakers or earphone, onto the Multimedia Workstation.
Please take a few moments to ascertain if the Multimedia Workstation program has been loaded successfully. To click the mouse right button to select **Properties** to enter the Device Manager, as illustrated in Fig. 8.

**Fig.8**

1. **Human Interface Devices**: Newly added are one HID-compliant consumer control device, two HID-compliant device and three USB Human Interface Devices.
2. **Sound, video and game controllers**: Newly added a USB Audio Device.
3. **Universal Serial Bus controllers**: Newly added a Generic USB Hub and two USB Composite Devices.
Step 3. Setup MMU2000/XP Software

▲ Fig.9 Under the Welcome screen, click **Next**

▲ Fig.10 Please click and choose **Full-Version**, and then **Next**

While there is no need to put in a serial number under a **Trial-Version**, which is good for 30 days or to be started up at various workstations for a total of 50 times. Upon expiring, the devices at the workstations will revert to inactive mode. It is necessary to purchase a Full-Version or serial number if you want to continue using the MMU2000/XP software.
▲ Fig.11 MMU 2000/XP Software License Agreement
Click and choose [I Agree], then [Next]. Or if you disagree, click [Cancel] to exit from the installation segment.

▲ Fig.12 Microsoft Windows License Agreement
Click and choose [I Agree], then [Next]. Or if you disagree, click [Cancel] to exit from the installation segment.
If you have purchased enough Microsoft Windows licenses, please choose “Yes” then Next.

Click Next
▲ Fig.15  MMU 2000/XP Software installation destination directory
If you agree to install with a default path, click and choose Next, or you may modify an installation destination directory that you desire.

▲ Fig.16  Important info:
VGA cards which do not support multiscreen mode like +one/Trident, SIS 6326 are no longer supported in this driver mode. Please check if those cards work properly in multiscreen mode before installing multiuser software. If Multiuser does not run, please start in save mode and install again w/o Multiscreen driver mode.
▲ Fig.17  Setting Password

As the MMU Console is protected by administrator password, please key in an identical password under the New Password and Retype New Password fields. When the password protection has been activated, only the correct password would allow you to access the MMU Console. BTW, please remember to choose and click the Install “MultiScreen” compatible drivers.

If you can see the option Install “MultiScreen” compatible drivers please remember to choose and click it.
Fig.18  Serial Number, Activation Key and user data

Fill in the **Serial Number**, **Activation Key** and user data, each serial number needs to be matched with a corresponding Activation Key. Depending on the number of workstation(s) you intend to add on, appending every new workstation will require a set of serial number and activation key. When adding two or more new users, click **Advanced** … to append new serial numbers and activation key; however, if you are on a test version, there is no need to complete such input.

Fig.19

Click **Add** to access the new workstation’s Serial number, then click **OK** when done, where the number of Serial Numbers to be keyed in will depend on the number of workstations you have.
Fig. 20. Setup is now ready to copy files.
Click **Next**

Fig. 21. You will be asked to reboot the computer upon concluding the installation.
Choose and click **Yes, I want to restart my computer now** then **Restart**. Please don’t shut down now.
Step 4

If your VGA Card is the ATI PCI VGA card (8M) or the S3 PCI VGA card…
1. Please install the driver with the CD driver when working under the Windows 2000.
2. Please use the operating system embed driver when working under Windows XP.

If your VGA Card is SIS 305 or ATI PCI VGA card (32M),
it's not necessary used the CD Driver. Please install the operating system embed driver directly.
Step 5 Access through MMU Console to define settings for peripheral equipment

- Keyboards and Mice settings
- Audio Devices settings
- Removeable device (USB Storage) settings

▲ Fig.22
When the system is first started after MMU 2000/XP software installation, you are asked to assign the USB-devices to their respective stations.
Please click “Yes” to assign the keyboards and mice.

▲ Fig.23
Choose/Click one Station out of the Station list.
Go to that chosen Station, press one button at that keyboard and move that mouse.
Save Settings for that Station and choose another Station, if necessary.
Define settings for peripheral equipment

When the system is first started after MMU 2000/XP software installation, you are asked to assign the USB-devices to their respective stations.
If you missed the chance to set the Keyboard and Mouse, there is the other way to define settings for the Keyboard and Mouse.

Please login the Multimedia Multi-User 2000-XP Console with the Administrator. Full functionality is only available with Windows administrator authorisation. The “normal” user may view but not change settings.

Besides, you can define the setting for other peripheral equipment through the MMU Console. (such like the Audio device and the USB Storage device.)

Start the MMU Console (Multimedia Multi-User 2000-XP Console)

There are two ways to access the MMU Console:
(1) start→ Programs→ MCTs Multimedia Multi-User 2000-XP → Multimedia Multi-User 2000-XP Console, or,
(2) Double click the small double yellow monitor icon (Fig. 24) to access the Multimedia Multi-user 2000-XP control console. (Fig. 25)

▲Fig.24

▲ Fig.25  MMU Console (Multimedia Multi-User 2000-XP Console)
Keyboard and Mice settings

Upon entering the MMU Console, access through Multiuser Settings → Local Settings → Device Assignments → Keyboards and Mice to open the screen as shown in Fig. 27, then double click [HID Keyboard …] under the Device Type menu to define your reference setting.

Please click and choose General, the original setting is Station #02, if you want to change the setting, please select [Keyboard Recognition via LED-Blinking], as shown in Fig.28.
Fig.28
Click **Start LED Blinking** to verify which workstation’s keyboard is being activated, upon verified, you may click **Stop LED Blinking**.

Fig.29
Please click and choose **General** using the drag-down menu to pick a workstation designated by the keyboard, i.e. **Station #03**.

Fig.30
Click **OK**
At this time, the system will prompt twice an error message, which is to remind you to restart your computer to activate the settings, or you may finish the settings of all devices before restart your computer.
Fig. 31 The keyboard and mouse settings of the Station #03 as shown in Fig. 31

You can set the keyboards and mice of Main Console and other stations as the same way.
Audio Device settings

Upon entering the MMU Console, access through **Multiuser Settings → Local Settings → Device Assignments → Audio Devices** to open the screen as shown in Fig.32, and then double click the **USB Audio Devices** under the **Device Type** menu to define your default setting.

Click **Start playing sound** to verify the audio device corresponds to the station, upon verified, click **Stop playing sound** to complete the setting.
Choose from the drag-down menu a station as designated by the audio device, i.e. Station #02, and then click OK to confirm.

At this time, the system will prompt twice an error message, which is to remind you to restart your computer so to activate the settings, or you may finish the settings of all devices before restart your computer.

The Audio Devices settings of the Station #02 as shown in Fig.36
Removable (USB Storage) settings

Upon entering the MMU Console, access through Multiuser Settings → Local Settings → Device Assignments → Removeable devices, to open the screen shown in Fig.37, double click the 3.5 Floppy, or an externally connected USB Floppy – Mitsumi USB Floppy under Device Type to define settings for distributing the stations. Naturally, you could also add other externally connected USB storage devices, such as a card reader.

At this time, both the Main Console and all of the Stations can access the 3.5 Floppy(A:) if you should desire to define the sequence of setting distribution, cancel the checked option at All stations, then select and click which station(s) can access the USB Storage device.
In this example, only Station #02 is able to access 3.5 Floppy (B:).

Cancel the checked option at All stations and Main Console, Station #03, Station #04, and Station #05, then click Apply and OK to confirm.

At this time, the system will prompt to remind you to restart your computer so as to activate the settings.

Upon concluding all the processes described under Step 5, please restart your computer.
Step 6 Check to see if all the features at each station are working properly and adjust the screen resolution under various workstation desktop settings

Every station needs to adjust the screen resolution the first time the user logs into Windows, Multi-User Software provides a convenient environment for setting of all stations. Please refer to the directions below.

Upon entering the MMU Console, access through Multiuser Settings → Local Settings → Stations to select one of the station, then move the cursor to the right viewfinder to select the Video Settings.

Please adjust the resolution in 800x600 or 1024x768 from the desktop Area then click the Change Display Settings, i.e. Station #02 (as shown in Fig. 41)
Step 7  Register the Serial Numbers

After the setup of the MMU 2000/XP software and set the peripheral environments of the stations, you can choose register the serial numbers immediately or later. To register the serial numbers is necessary for protect your rights.

There are two ways to register, you can choose “Register Now” or “Register Offline”, please reference the detail description in the Appendix (A).

Before you update to the newer version, please remember to cancel the register first then uninstall the MMU 2000/XP software. You can choose the “Unregister Now” or the “Unregister Offline”, please reference the detail description in the Appendix (B).
7. To Know the MMU 2000/XP Software

Description for options under the MMU Console

The following is intended to familiarize you with a rough idea as to what settings you will find under the Multimedia MMU Console

- Local Users and Groups (Local)
  i. Users
  ii. Groups

- Local Computer Policy
  i. 電腦設定
  ii. 使用者設定

- Local Settings
  i. Stations
  ii. Information & Settings
    1. Product Informations
    2. User Information
    3. System Settings
    4. Serial Numbers
  iii. Device Assignments
    1. Keyboard and Mice
    2. Audio Devices
    3. Removable devices

The settings of the Local Users and Groups and the Local Computer Policy are Windows’ settings. We don’t discuss here. If you have any question of this topic, please reference the information document or manual of the windows. The following detail description is focus on the Local Settings as below.

▲ Fig.42 Upon entering the MMU Console, access through Multiuser Settings → Local Settings. There are three further settings of Stations, Information & Settings and Device Assignments.
The Settings of Stations

Options in the Stations settings include **Start Station**, **Stop Station** and **Send message**, whereupon clicking the cursor to the right of the station icon will activate a desired setting, and the display will indicate its status as running or Ready.

There are 2 solutions to Start Stations, Stop Stations, and Sent Message. One is whereupon click the cursor to the right of the station as fig.44, fig. 45 and fig. 46. Other is setting on the tool bar directly on the station as fig. 48, fig.49 and fig.50.

▲ Fig.43 The status of the stations

▲ Fig.44 Before you register a newly installed station, the Status of such a station will remain **Ready**. The status of the station will appear as **Running** as soon as the newly added station has logged into Windows.
Fig. 45
If you wish to pause the active station, please click the mouse right button on the designated station then click **Stop Station**, i.e. Station #02.

If you wish to restart the stopped station, please click the mouse right button on the designated station then click **Start Station**, i.e. Station #02. Then the station will logon the windows.

Fig. 46
If you wish to send a message to a station, please click the mouse right button on the designated station (i.e. Station #02) then click **Send Message**.

(The status of the station in Running is necessary)
You would enter the message you in the **Message** dialog box and click **Send** to dispatch the message.

You can do the same thing with the function key on the tool bar.

**Fig.48**
Please click `▶` on the designated station to start the Ready station (i.e. Station #02).
▲ Fig.49
Please click on the designated station to stop the Running station (i.e. Station #02)

▲ Fig.50
If you wish to send a message to a station, please click on the designated station (i.e. Station #02)
All remaining settings are for informational purposes and will appear on the right portion of the console for the designated station (i.e. Station #02). What follows below introduces the contents of the designated station that appear to the left of the viewfinder, which consist of **Application loaded, Information, Station Infos** and **Video Settings** as shown in Fig.51, Fig.52, Fig.53 and Fig.54.

▲ Fig.51
A list of the **Application** of a designated station (i.e. Station #02) appears at the **Station(s)** at the left of the viewfinder.

▲ Fig.52
A list of the **Information** of a designated station (i.e. Station #02), appears at the **Station(s)** at the left of the viewfinder.
▲ Fig.53
A depiction of the **Station Infos** of a designated station (i.e. Station #02) appearing at the **Station(s)** at the left of the viewfinder.

▲ Fig.54
A depiction of the **Video Settings** of a designated station (i.e. Station #02) appearing at the **Station(s)** at the left of the viewfinder.
Information & Settings

The segment of **Information & Settings** consists of Product Information, User Information, System Settings, and Serial Numbers, as shown in Fig. 56, Fig. 57, Fig. 58, and Fig. 59.

▲ Fig.55

▲ Fig.56  **Product Information**

From the **Product Information**'s right viewfinder, we would see the detailed description of the MMU2000/XP software, such as Product name, Build Date, Version number…, and so on.
▲ Fig.57  User Information

User Information displays the information that you’ve entered throughout the installation process, i.e. Name, Company, E-mail and phone number and such.

▲ Fig.58  System Settings

System settings’ right viewfinder displays the status of how the MMU2000/XP software is currently configured, where some of the options are programmable via workstation administrator.
Serial Numbers’ right viewfinder displays the station’s corresponding serial number. Please click the mouse right button on the designated serial number then you can choose the “Register Now” or “Register Offline”. (Please reference the Appendix(A) to Register the Serial Number).
Device Assignments

The segment of **Device Assignments** consist of the Keyboards and Mice, Audio Devices and Removeable devices, as shown in Fig.60.

The detail setting description please reference the “**Step 5 Access through MMU Console to define settings for peripheral equipment**“.

▲ Fig.60  Device Assignments
8. Q & A

Q1. It takes very long time to restart the computer after I finished the MMU 2000/XP Software, why?

A1. There are two probable causes leading to this scenario:

1. The main board supports H.T, but it doesn’t be enable on CMOS. Besides, you don’t choose and click the option [Install “MultiScreen” compatible driver] when you process the setup procedure of the MMU 2000/XP Software. (as shown in Fig.17)

2. The main board NOT supports H.T and you don’t choose and click the option [Install “MultiScreen” compatible driver] when you process the setup procedure of the MMU 2000/XP Software.

There is a solution to resolve these two situations.

i. Unregister the serial numbers if you have registered already.

ii. Reboot the computer in the save mode and remove the MMU 2000/XP Software.

iii. If your Main board supports the H.T, please remember to enable it on COMS.

iv. Restart the computer and install the MMU 2000/XP Software again, but this time please remember to the option [Install “MultiScreen” compatible driver] when you process the setup procedure of the MMU 2000/XP Software (as shown in Fig.17).

Q2. How do I know my main board and CPU supports Intel H.T (Hyper Threading®)?

A2. If your computer working on Windows XP, you will see 2 CPU under Processors in Device Manager. (as shown in Fig Q1). Also, you can see 2 CPU on the Windows Task Manager. (as shown in Fig Q2)
If your computer working on Windows 2000, you will see the **ACPI Multiprocessor PC** under Computer Device Manager. (as shown in Fig Q3). Also, you can see 2 CPU on the Windows Task Manager. (as shown in Fig Q4)

**Q3. How can I do if the Serial numbers overdue?**

A3. Please register your serial numbers. (Please reference the Appendix (A)). If you can not register the serial number, please contact your dealer or mail your question to support@mct.com.tw or register@hydраЛарк.com directly.

**Q4. How to update the MMU 2000/XP Software ?**

A4. Please remove the prior version MMU 2000/XP Software clean before you install the new version MMU 2000/XP Software. The procedure as below:

Q5. Why the additional keyboards, mice and sound devices no function?

A5.

i. Please ascertain that the connections are made correctly, i.e. the connection between the USB cable, keyboard and mouse are correctly, as shown in Fig.Q5.

ii. Please enter the Multi-User 2000-XP Console to make sure that the station not be stopped, as shown in Fig Q6, and the Keyboard and the Mice assignment correctly (as shown in Fig. Q7-Q8).
Q6. Why do my stations show no display with the CRT or LCD except the Main Console?

A6. There are four probable causes leading to this scenario:

i. Make sure all CRT or LCD connectors are securely connected, or the monitor has power and is turned on.

ii. Your VGA card may be incompatible with the MMU2000/XP software. Please reference the compatible list table from page 5.

iii. Multimedia Workstation breakdown or not connect to the USB port of the host computer. Please reference page 14 to make sure the Multimedia Workstation install successfully.

iv. Your MMU2000/XP Software Trial-Version or serial number overdue. Please check the serial number status as the Fig Q9: If you are using the Trial-Version, please purchase Multimedia Workstation kit, if the serial number overdue, please contact support@mct.com.tw or register@hydrapark.com.

Please reference the A7 of the Q7 to make sure your PCI VGA Card supports the Multi Screen. During you process the installation of the MMU2000/XP Software, you forgot to click and choose the Install “MultiScreen” compatible drivers. Please re-install the MMU 2000/XP Software again and remember to choose and click the Install “MultiScreen” compatible drivers (as shown in Fig.Q10) during the installation procedure.
Q7. How do I know my PCI VGA Card supports Multi-Screen function or not?
A7. Drag the monitor icons to match the physical arrangement of the extend monitor, and check if it displayed correctly or not.

Step 1:
1. Right-click on the desktop to select “Display Properties” and then “Setting” to click each monitors (as shown in Fig. Q11).
2. Then click and choose the check box “Extend my Windows desktop onto this monitor” (as shown in Fig. Q12)
3. Click Apply and OK. Then the monitors of the extend stations will be turn on.
Step 2:
(1) Adjusting the “Color quality” by selecting desired color bit from the drop-down tray to highest (32bit) or Medium (16 bit).
(2) Adjust the “Screen resolution” by moving the scale to set it on 1024X768 or 800X600 (as shown in Q13).

Check of the each monitors display correct or not, if the extended monitor display correct, that’s meaning the PCI VGA Card supports Multi Screen.

▲ Fig. Q13
Appendix(A) Register the Serial number

As you finished the setup and the setting of the stations, you can choose register the serial number immediately or later. For protect your rights and available to update the new version MMU software anytime, please complete the register procedure. You can choose “Register Now” or “Register Offline”.

1. Register Now (register on line)
Upon entering the MMU Console, access through **Multiuser Settings → Local Settings → Information & Settings → Serial Numbers** to click the mouse right button on the designated station (i.e. Station #02) then click **Register Now**, as shown in Fig. A1 ~ A4.

![Fig. A1](image)

![Fig. A2](image)
Fig. A3  Click **Next**

Fig. A4  Click **Finish** to complete the Registration
2. Register Offline

Upon entering the MMU Console, access through Multiuser Settings → Local Settings → Information & Settings → Serial Numbers to click the mouse right button on the designated station (i.e. Station #02) then click Register Offline, as shown in Fig.A5 ~ A10.

▲ Fig. A5

▲ Fig. A6  Please fill the fields then click Next
Fig. A7  Please click **Back** if you have the others serial numbers need to access registered procedure.

Fig. A8  Please click checkbox to select serial numbers that you want to register then click **Next**.
If you agree to save the register file with a default path, click and choose Next, or you may modify an installation destination directory that you desire.

Congratulations, you have finished the Register Offline procedure, please sent the file to Register Center support@mct.com.tw or register@hydrapark.com, click Finish to end off the Register procedure.
After sent the register file to the Register Center, you will receive the Register Key. Please follow the steps as below to make your Register Key activated and to start the station working normally. (There is a serial number for reference sample as shown in Fig A11 ~ A13.)

▲ Fig. A11
Upon entering the MMU Console, access through Multiuser Settings → Local Settings → Information & Settings → Serial Numbers to click a designated serial number.

▲ Fig. A12
Click the mouse right button on the designated serial number to choose Enter Register Key.
Please click and choose **Serial Number(s)** using the drag-down menu to pick a serial number and fill in the Activation Key then click **Accept**. You can do the same procedure if you have others serial numbers need to activate together then click **Finish** to complete the activate registration.
Appendix (B) Unregister

When you have registered already and prepare to update the new MMU software version, *please remember to cancel the register first then uninstall the MMU 2000/XP software*. You can choose the “Unregister Now” or the “Unregister Offline”.

If you forgot processing Unregister then re-install the MMU Software or re-install the system, you will discover that you still can install the MMU Software with these serial numbers. But you just have 5 chances to do this way at the same serial number. If you always forgot unregistering, you will discover that these serial numbers can not working anymore at the sixth times.

In fact there is a solution that you can update the MMU Software many times with no limitation, only you *remember to cancel the register first then uninstall the MMU 2000/XP software*.

1. **Unregister Now**

Upon entering the MMU Console, access through **Multiuser Settings → Local Settings → Information & Settings → Serial Numbers** to click the mouse right button on the designated station (i.e. Station #02) then click **Unregister Now** as shown in Fig. B1 ~ B3.

![Multiuser Settings](image)

▲ [Fig.B1](image)
**Fig. B2** Click **Next**

**Fig. B3** Please click **Finish** to complete the UnRegister Process.
2. **Unregister Offline**

Upon entering the MMU Console, access through **Multiuser Settings → Local Settings → Information & Settings → Serial Numbers** to click the mouse right button on the designated station (i.e. Station #02) then click **Unregister Offline** as shown in Fig. B4 ~ B7

![Fig. B4](image)

**ACTs Multimedia Multi-User 2000-XP Internet Registration Program**

**Ready to Unregister off-Line**

Please check your setting to register if you ready to unregister off-line please click "Next"

![Fig. B5](image)  
**Click Next**
▲ Fig. B6  If you agree to save the Unregister file with a default path, click and choose Next, or you may modify an installation destination directory that you desire.

▲ Fig. B7  Congratulations, you have finished the UnRegister Offline procedure, please sent the file to Register Center support@mct.com.tw or register@hydrapark.com, click Finish to end off the Register procedure.