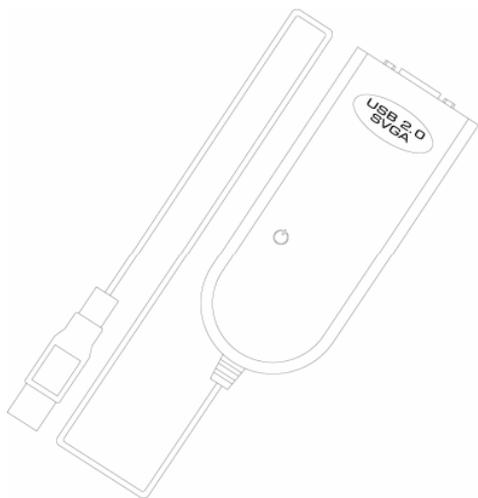


KAIREN

# サインはVGA

USB2.0接続マルチディスプレイアダプタ

Instruction Manual Ver.7.5



---

---

# Table of Contents

---

Table of Contents.....	2
Introduction .....	3
Multi Display Utilization Examples .....	3
Operation Environment .....	4
Package Contents .....	4
Product Support.....	4
Trademarks.....	4
Windows VISTA Installation Process .....	5
1. Inserting the attached CD into the CD-ROM drive tray.....	5
2. Start driver installation .....	6
3. Connect "Sign as VGA" unit to PC.....	7
Windows VISTA Uninstallation Process .....	8
1. Display "Programs and Features" .....	8
2. Start driver uninstallation .....	8
Windows XP Installation Process .....	10
1. Inserting the attached CD into the CD-ROM drive tray.....	10
2. Start driver installation .....	11
3. Connect "Sign as VGA" unit to PC.....	12
Windows XP Uninstallation Process .....	13
1. Display "Add or Remove Programs" .....	13
2. Start driver uninstallation .....	14
Windows 2000 Installation Process .....	15
1. Inserting the attached CD into the CD-ROM drive tray.....	15
2. Start driver installation .....	16
3. Connect "Sign as VGA" unit to PC.....	17
Windows 2000 Uninstallation Process .....	18
1. Display "Add/Remove Programs" .....	18
2. Start driver uninstallation .....	18
"Sign as VGA" User's Guide Utility .....	19
Designation for each parts .....	19
Designation for Desktop Screen .....	19
UV Menu Description .....	20
Clue for "Multi Display" Utilization .....	21
Multi Desktop.....	21
Clone Desktop .....	22
Parallel use of Multi Desktop and Clone Desktop.....	23
FAQ Troubleshooting.....	24
Problem Avoidance related to Driver Installation .....	24
In case of Improper Operation...check the following items .....	25
Latest Driver Installation Process .....	25
General Questions .....	26
Questions related to installation .....	27
Questions related to performance, function and operational environment.....	27
Question related to usage .....	28
Causing errors or failures?.....	29

# Introduction

Thank you for choosing our product of "Sign as VGA".

This is USB peripherals that enable to build additional CRT or LCD displays easily on desktop PCs or laptops. Please read through this instruction manual (this document) before performing installation in order for a convenient use. If this document is a little hard to read, please refer to the instruction manual recorded in the attached CD.

## Multi Display Utilization Examples

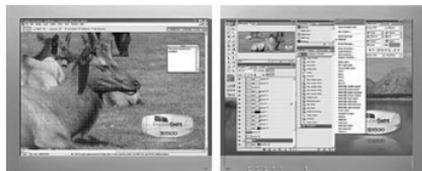
### Utilization for browsing



Upon file reference, a simultaneous browsing is enabled conveniently without requiring a window switching.

- Displays multiple screens of long forms or files in enlarged size
- Displays new web pages or files on the monitor additionally established by using the application of mailer or web browser etc.

### Utilization for graphic works



By placing and displaying the palette of drawing or photo-retouching software and tool bars, a wider area for working can be secured around the main monitor.

### Utilization for input or edit works



Work efficiency can be enhanced by using monitor for displaying input or edit software and monitor for displaying document file separately.

- Displaying online trade of stock prices, individual brands, charts and order screens neatly.
- Creating report with word processor by referring to the document.

## Utilization for presentation and entertainment



By differentiating monitor for displaying speech notes from monitor for displaying presentation documents at the meeting or business negotiation, a comprehensible presentation can be performed.

### Operation Environment

- Compatible OS
  - Windows VISTA 32bit Edition** (Home Basic / Home Premium / Ultimate / Business)
  - Windows XP** (Home Edition / Professional)
  - Windows 2000 Professional**
    - \* Windows Aero function is not supported.
    - \* Administrator / Administrative Privileges is required for driver installation
- 128MB or more Available Memory Space
- CD-ROM Drive
- Keyboard and Mouse
- USB2.0 Port
- CRT, LCD Display, Projector (monitor that can be connected to analog RGB cable with D-sub15pin terminal)

### Package Contents

- Sign as VGA (Unit) x 1
- Driver/Manual CD-ROM x 1 sheet (MMPT2 trial version included)
- Instruction Manual (this document) x 1 copy
- Warranty Card x 1 sheet

### Product Support

#### KAIREN Co., Ltd. User Support

**Address:** Hoei BLDG. 5F, 11-1, Miyuki-cho, Tokorozawa-shi, Saitama Zip 359-1115

**TEL:** 81-4-2928-6836

\* The line may be busy depending on date and hour. Please contact us via FAX or e-mail.

**FAX:** 81-4-2929-6297

**e-mail:** support@kairen.co.jp

**URL:** http://www.kairen.co.jp/

\*The information related to this product is updated on our official website. Please check.

**Support Time:** 10:30am ~ 6:30pm (Saturdays, Sundays and National Holidays excluded)

### Trademarks

- \* Windows is a registered trademark of Microsoft Corporation in United States or other countries.
  - \* Other brand names refer to trademarks or registered trademarks of each companies.
- The specification of this product may be modified or changed without prior notice for product improvement.

# Windows VISTA Installation Process

## Please be sure to follow the procedures described in this instruction manual (this document) upon connecting this product.

If this product is connected to PC in advance to the attached CD driver installation, it may lead to failure occurrence. Please conduct installation after terminating all application software currently activated.

### 1. Inserting the attached CD into the CD-ROM drive tray

The content in the attached CD is read-in automatically and "Setup Wizard" will be activated. \*Refer to below figure. The driver for each color model is prepared in this product. Please select and click the buttons according to the purchased model.

サインはVGA  
ソフトウェアのインストール / 取扱説明書  
Software Installation / Instruction Manual  
Ver 7.5

お使いのカラーモデルのボタンを押してください。  
Please press the button of the color model currently used.

- 「サインはVGA 青箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Blue Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 緑箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Green Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 白箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA White Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 海箱 PLUS」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Marine Blue Box Plus\* Installation (Windows Vista / XP / 2000)

■取扱説明書を開く (PDF 形式)  
The Instruction Manual (PDF file format)

**特典** サインはVGA 支援ソフトウェアを体験しよう！  
Bonus Let's test out the software supporting Sign as VGA !

**30 日体験版**

- 「MMPT2」のインストール (Windows Vista / XP / 2000)
- 「MMPT2」Installation for 30 days trial version (Windows Vista / XP / 2000)

\*インストールが終了するまで、サインはVGA を接続しないでください。  
\*Please do NOT connect Sign as VGA until the installation is completed.

\*必ず管理者権限 (Administrator 権限) でインストールしてください。  
\*Please be noted that the installation must be executed under administrative right.

\*Windows Vista でご利用の場合、Aero 機能を解除してください。  
\*Please release the Aero function in case of using Windows Vista.

EXIT

[Button Designation]

“Sign as VGA Blue Box”  
Installation

“Sign as VGA Green Box”  
Installation

“Sign as VGA White Box”  
Installation

“Sign as VGA Marine Blue Box  
Plus” Installation

Open Instruction Manual  
(PDF Format)

Bonus: Let's try out the software  
supporting Sign as VGA!

“MMPT2” 30 Days Trial Version  
Installation

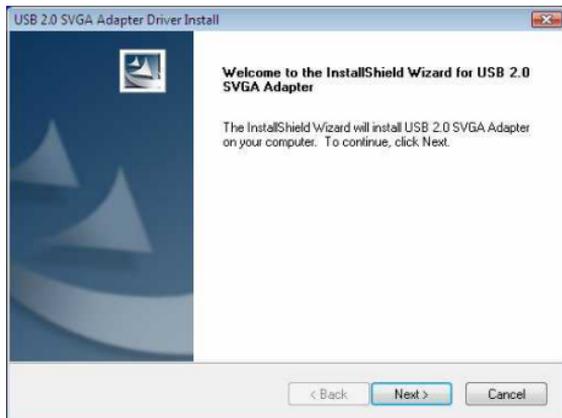
EXIT (=End)



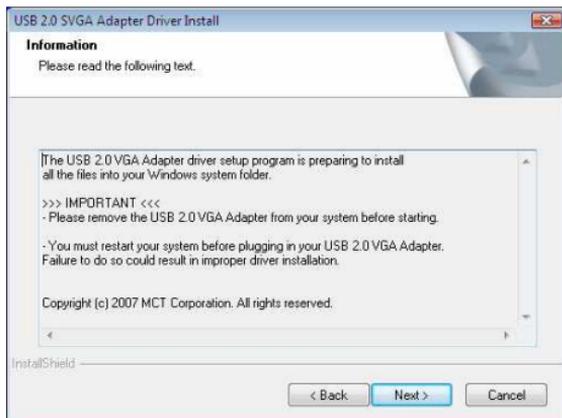
In case when “Setup Wizard” is NOT activated, open the folder of the attached CD and double-click [launch.exe].

## 2. Start driver installation

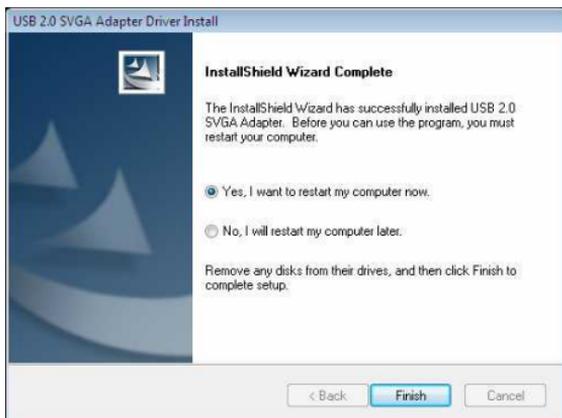
Conduct driver installation by following the procedures below.



Click **NEXT>N**



Click **NEXT>N**



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will be restarted automatically.

The driver installation is now completed. Move on to the next procedure of setting up the unit.

### 3. Connect "Sign as VGA" unit to PC

Connect "Sign as VGA" unit to USB port of PC after conducting a restart. Please be sure to insert securely after checking the shape without conducting a forcible insertion.

A balloon shown below will be displayed at the right corner (taskbar) of the desktop screen.



By clicking a balloon, driver setting will start automatically. \*Screen will flash on and off during installation. When "Sign as VGA" is set to Windows (=PC) properly, a balloon shown below will be displayed at the right corner (taskbar) of the desktop screen.



"Sign as VGA" installation is now completed.



**In order to enable the installation and new setting, please be sure to conduct "Restart" on Windows (=PC). Refer to "Utility User Guide" for details on UV menu.**

---

# Windows VISTA Uninstallation Process

---

**Please be sure to confirm that the operation status of this product is in pause mode.**

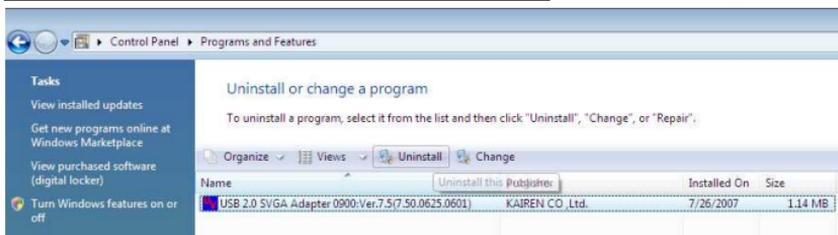
Please remove "Sign as VGA" by ticking "USB-VGA (Off)" in "UV Menu" before starting uninstallation. Then, restart Windows (=PC) and conduct uninstallation.

Please conduct uninstallation after terminating all application software currently activated.

## 1. Display "Programs and Features"

Display "Programs and Features" by following the procedures below.

Select **Left bottom of desktop screen (Start)** **Control Panel (in Start Menu)** **Programs and Features**  
**USB 2.0 SVGA Adapter 09xx:Ver. 7.5 (in Programs and Features window)** \*Refer to the bottom diagram



## 2. Start driver uninstallation

Conduct driver uninstallation by following the procedures below.

Check that **USB 2.0 SVGA Adapter 09xx:Ver. 7.5** is selected and click **Uninstall**.

Uninstallation confirmation screen will be displayed.



Click **OK**.



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will automatically be restarted.

**"Sign as VGA" uninstallation is now completed.**

# Windows XP Installation Process

## Please be sure to follow the procedures described in this instruction manual upon connection.

If this product is connected to PC in advance to the attached CD driver installation, it may lead to failure occurrence. Please conduct installation after terminating all application software currently activated.

### 1. Inserting the attached CD into the CD-ROM drive tray

The content in the attached CD is read-in automatically and "Setup Wizard" will be activated. \*Refer to below figure. The driver for each color model is prepared in this product. Please select and click the buttons according to the purchased model.

サインはVGA  
ソフトウェアのインストール / 取扱説明書  
Software Installation / Instruction Manual  
Ver 7.5

お使いのカラーモデルのボタンを押してください。  
Please press the button of the color model currently used.

- 「サインはVGA 青箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Blue Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 緑箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Green Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 白箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA White Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 海箱 PLUS」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Marine Blue Box Plus\* Installation (Windows Vista / XP / 2000)
- 取扱説明書を開く (PDF 形式)  
The Instruction Manual (PDF file format)

**特典 Bonus** サインはVGA 支援ソフトウェアを体験しよう！  
Let's test out the software supporting Sign as VGA !

**30日体験版**

- 「MMPT2」のインストール (Windows Vista / XP / 2000)
- 「MMPT2」Installation for 30 days trial version (Windows Vista / XP / 2000)

※インストールが終了するまで、サインはVGA を接続しないでください。  
\*Please do NOT connect Sign as VGA until the installation is completed.

※必ず管理者権限 (Administrator 権限) でインストールしてください。  
\*Please be noted that the installation must be executed under administrative right.

※Windows Vista でご利用の場合、Aero 機能を解除してください。  
\*Please release the Aero function in case of using Windows Vista.

EXIT

[Button Designation]

“Sign as VGA Blue Box”  
Installation

“Sign as VGA Green Box”  
Installation

“Sign as VGA White Box”  
Installation

“Sign as VGA Marine Blue Box  
Plus” Installation

Open Instruction Manual  
(PDF Format)

Bonus: Let's try out the software  
supporting Sign as VGA!

“MMPT2” 30 Days Trial Version  
Installation

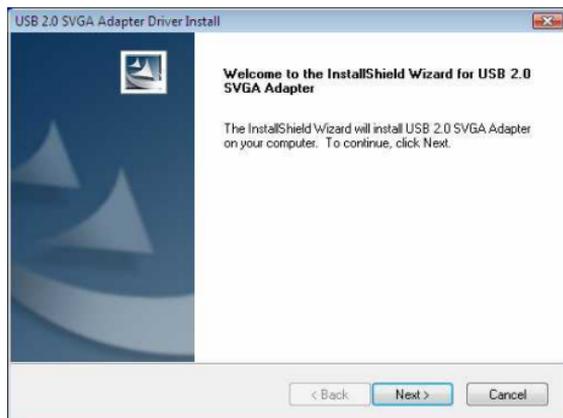
EXIT (=End)



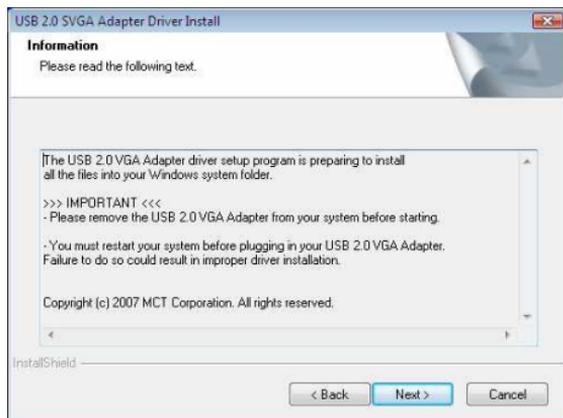
In case when “Setup Wizard” is NOT activated, open the folder of the attached CD and double-click [launch.exe].

## 2. Start driver installation

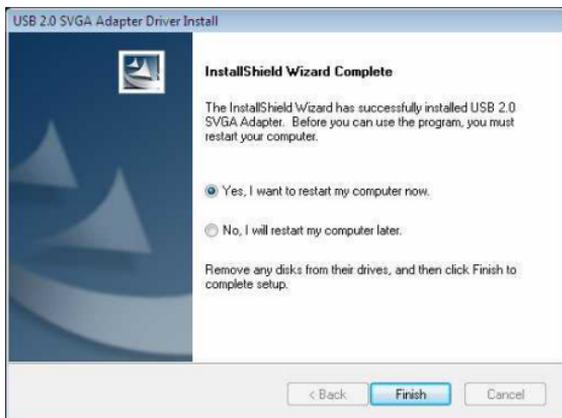
Conduct driver installation by following the procedures below.



Click **NEXT>N**



Click **NEXT>N**



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will be restarted automatically.

The driver installation is now completed. Move on to the next procedure of setting up the unit.

### 3. Connect "Sign as VGA" unit to PC

Connect "Sign as VGA" unit to USB port of PC after conducting a restart.

Please be sure to insert securely after checking the shape without conducting a forcible insertion.

A balloon shown below will be displayed at the right corner (taskbar) of the desktop.



By clicking a balloon, driver setting will start automatically. \*Screen will flash on and off during installation.

When "Sign as VGA" is set to Windows (=PC) properly, a balloon shown below will be displayed at the right corner (taskbar) of the desktop screen.



"Sign as VGA" installation is now completed.



In order to enable the installation and new setting, please be sure to conduct "Restart" on Windows (=PC). Refer to "Utility User Guide" for details on UV menu.

---

# Windows XP Uninstallation Process

---

**Please be sure to confirm that the operation status of this product is in pause mode.**

Please remove "Sign as VGA" by ticking "USB-VGA (Off)" in "UV Menu" before starting uninstallation. Then, restart Windows (=PC) and conduct uninstallation.

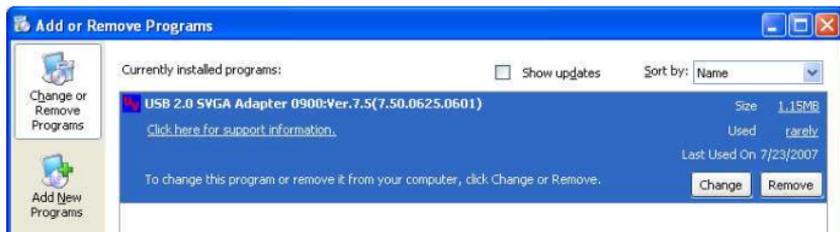
Please conduct uninstallation after terminating all application software currently activated.

## 1. Display "Add or Remove Programs"

Display "Add or Remove Programs" by following the procedures below.

Select Left bottom of desktop screen (Start) Control Panel (in Start Menu) Add or Remove Programs

USB 2.0 SVGA Adapter 09xx:Ver. 7.5 (in Add or Remove Programs window) \*Refer to the bottom diagram



## 2. Start driver uninstallation

Conduct driver uninstallation by following the procedures below.  
Click **Delete** in the selected **USB 2.0 SVGA Adapter 09xx:Ver. 7.5**.



Uninstallation confirmation screen will be displayed.

Click **OK**.



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will be restarted automatically.

"Sign as VGA" uninstallation is now completed.

# Windows 2000 Installation Process

## Please be sure to follow the procedures described in this instruction manual upon connection.

If this product is connected to PC in advance to the attached CD driver installation, it may lead to failure occurrence. Please conduct installation after terminating all application software currently activated.

### 1. Inserting the attached CD into the CD-ROM drive tray

The content in the attached CD is read-in automatically and "Setup Wizard" will be activated. \*Refer to below figure. The driver for each color model is prepared in this product. Please select and click the buttons according to the purchased model.

サインはVGA  
ソフトウェアのインストール / 取扱説明書  
Software Installation / Instruction Manual  
Ver 7.5

お使いのカラーモデルのボタンを押してください。  
Please press the button of the color model currently used.

- 「サインはVGA 青箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Blue Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 緑箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Green Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 白箱」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA White Box\* Installation (Windows Vista / XP / 2000)
- 「サインはVGA 海箱PLUS」のインストール (Windows Vista / XP / 2000)  
\*Sign as VGA Marine Blue Box Plus\* Installation (Windows Vista / XP / 2000)

■取扱説明書を開く (PDF 形式)  
The Instruction Manual (PDF file format)

**特典 Bonus** サインはVGA 支援ソフトウェアを体験しよう！  
Let's test out the software supporting Sign as VGA !

**30日体験版**

- 「MMPT2」のインストール (Windows Vista / XP / 2000)
- 「MMPT2」Installation for 30 days trial version (Windows Vista / XP / 2000)

※インストールが終了するまで、サインはVGA を接続しないでください。  
\*Please do NOT connect Sign as VGA until the installation is completed.

※必ず管理者権限 (Administrator 権限) でインストールしてください。  
\*Please be noted that the installation must be executed under administrative right.

※Windows Vista でご利用の場合、Aero 機能を解除してください。  
\*Please release the Aero function in case of using Windows Vista.

EXIT

[Button Designation]

“Sign as VGA Blue Box”  
Installation

“Sign as VGA Green Box”  
Installation

“Sign as VGA White Box”  
Installation

“Sign as VGA Marine Blue Box  
Plus” Installation

Open Instruction Manual  
(PDF Format)

Bonus: Let's try out the software  
supporting Sign as VGA!

“MMPT2” 30 Days Trial Version  
Installation

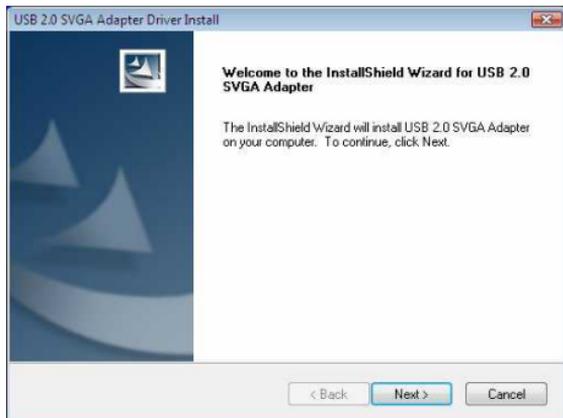
EXIT (=End)



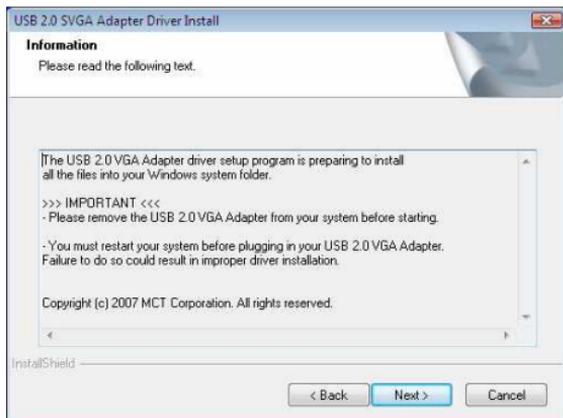
In case when “Setup Wizard” is NOT activated, open the folder of the attached CD and double-click [launch.exe].

## 2. Start driver installation

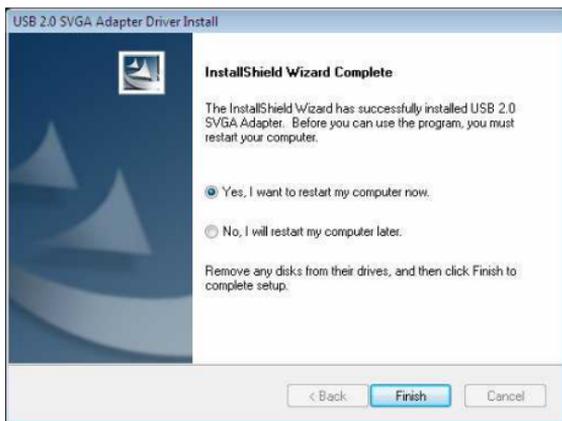
Conduct driver installation by following the procedures below.



Click **NEXT>N**



Click **NEXT>N**



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will be restarted automatically.

The driver installation is now completed. Move on to the next procedure of setting up the unit.

### 3. Connect "Sign as VGA" unit to PC

Connect "Sign as VGA" unit to USB port of PC after conducting a restart.

Please be sure to insert securely after checking the shape without conducting a forcible insertion.

The following windows will be displayed on the desktop screen and the driver setting will start automatically.

\*Screen will flash on and off during installation.



When "Sign as VGA " is set to Windows (=PC) properly, the setting will be completed automatically.

"Sign as VGA" installation is now completed.



**In order to enable the installation and new setting, please be sure to conduct "Restart" on Windows (=PC). Refer to "Utility User Guide" for details on UV menu.**

# Windows 2000 Uninstallation Process

**Please be sure to confirm that the operation status of this product is in pause mode.**

Please remove "Sign as VGA" by ticking "USB-VGA (Off)" in "UV Menu" before starting uninstallation. Then, restart Windows (=PC) and conduct uninstallation.

Please conduct uninstallation after terminating all application software currently activated.

## 1. Display "Add/Remove Programs"

Display "Add /Remove Programs" by following the procedures below.

Select **Left bottom of desktop screen (Start)**

**Control Panel**

**Add/Remove Applications**

**USB 2.0 SVGA Adapter 09xx:Ver. 7.5 (in Add/Remove Applications window)**



## 2. Start driver uninstallation

Conduct driver uninstallation by following the procedures below.

Click **Delete** in the selected **USB 2.0 SVGA Adapter 09xx:Ver. 7.5**.



Uninstallation confirmation screen will be displayed.

Click **OK**.



Check that "Yes, I want to restart my computer now." is selected and click **Finish**.

After click, Windows (=PC) will be restarted automatically.

"Sign as VGA" uninstallation is now completed.

# "Sign as VGA" User's Guide Utility

## Designation for each parts

### USB Port

The designation for insertion slot attached to PC for inserting the cable connector (USB connector) for USB peripherals are shown below.

### USB Connector

A designation for cable tip (connector) for connecting PC and USB peripherals.

### VGA Output Port

A designation for insertion slot on the "Sign as VGA" unit for inserting monitor cable connector (VGA connector).

### VGA Connector

A generic designation for cable tip for connecting PC and monitor. The VGA connector available for this product is D-Sub15 pin. DVI terminal is unavailable.



## Designation for Desktop Screen

### Taskbar

The bar normally placed at the bottom of the desktop screen is called "Taskbar". "Start", "Running application information", "Resident task icon" or "Show the clock" is displayed here. The "Sign as VGA" menu can be activated from the UV icon in the resident tasks.

### Window Dialogue

The bar placed at the top of the screen upon opening the window is called "Dialogue". "Application Names", "File Names" or "Close" are displayed here.

### Display Properties

Menu will be opened by right-clicking after placing a mouse point on the desktop where nothing is displayed.

"Display Properties" will be opened by clicking "Property" in the menu.

On "Display Properties", setting of monitor resolution, numbers of colors or monitor location are enabled.



### Desktop Screen

The screen displayed on the monitor is called "Desktop Screen". On desktop screen, icons, taskbars, windows of activating applications, backgrounds and wall papers are displayed.

# UV Menu Description

## [NOTE !]

For the PC with display utility software of the other manufacturer already installed, a proper activation may not be performed due to the interference on the UV menu of "Sign as VGA". In case of failure occurrence, the problem may be solved by deleting the display utility software of the other manufacturer from the system.

\* Please be careful and take full responsibility for your work upon deleting display utility of other manufacturer.

## ■USB-VGA (Primary)

Set the monitor connected to "Sign as VGA" as **Main Monitor**. Taskbar will be displayed on the main monitor.

[NOTE]

\*USB-VGA (Primary) may not be activated depending on the PC used.

\*Please note that the failure may be caused when the "Sign as VGA" being a main monitor is removed from the PC while USB-VGA (Primary) is being active. If PC falls into freeze status, please remove "Sign as VGA" from PC and activate OS in Safe Mode, and then reset the main monitor setting.

## USB-VGA (Extended) \*Recommended Setting

Set the monitor with "Sign as VGA" connected as **Extended Monitor**. The taskbar is NOT displayed on the extended monitor. The applications software not compatible with multi display may NOT be activated or displayed on the desktop screen of the extended monitor.

## USB-VGA (Off)

**Stop the operation of "Sign as VGA"**. After selection, desktop screen will NOT be displayed on the monitor where "Sign as VGA" is connected.

## Mirror

**The desktop exactly the same (with same resolution)** as the main monitor is displayed on the monitor where "Sign as VGA" is connected. Please note that the resolution not supported by "Sign as VGA" will NOT be displayed.

## Resolution

The resolution level and the number of colors of screen of the monitor where "Sign as VGA" is connected can be changed. The notation is [Screen Width (Pixel)] x [Screen Height (Pixel)] x [Number of Screen Colors (bit)].

Screen Resolution (Pixel)	Designation	Screen Color (bit)
800 x 600	SVGA	16 / 32
1024 x 768	XGA	16 / 32
1152 x 864	XGA+	16 / 32
1280 x 768	WXGA	16 / 32
1280 x 800		
1280 x 960	Quad-VGA	16
1280 x 1024	SXGA	16
1440 x 900	WXGA+	16
1600 x 1200	UXGA	16
1680 x 1050	WSXGA+	16

---

## Clue for “Multi Display” Utilization

---

### [Advance Knowledge of Multi Display]

Multi Display is a function attached to Microsoft's Operation System (OS). It is supported from Windows98SE version onwards, and plays a role for controlling multiple monitors with only single unit of PC.

There are 2 methods for multi display. One method is “Multi Desktop” display for the purpose of extending the desktop screen (expanding display area), another is “Clone Desktop (=Mirror)” for the purpose of showing the desktop screen currently you are browsing to the third party on the separate monitor. Generally, “Multi Desktop” is described as “Multi Display”.

## Multi Desktop

Multi Desktop (=Extended Screen) is a method to handle multiple monitors theoretically with only one monitor. The purpose of this method is to extend the desktop screen (expanding display area).

Ex) Assume that 3 monitors are connected to one unit of PC. At the initial setting, the display area will be added on the right side of the main monitor. Which means that desktop screen is extended longer in the horizontal direction each time the additional monitor is established.

When moving the mouse pointer in the right direction starting from the main monitor (monitor displaying icons or taskbars Figure ), the mouse pointer will appear on the left corner of the next monitor (Figure ). By moving the mouse pointer much further, it will disappear from the right corner of the current monitor and appear on the left corner of the next monitor (Figure ).



The direction of left-lateral or up and down for extending desktop is also available besides right-lateral. The extended desktop screen position can be changed by “Display Properties > Setting > Drag the monitor icons to match the physical arrangement of your monitors”.

### [Supplementation 1]

In multi display environment, the monitor where initially connected to PC is defined as “primary” and “secondary” for the monitors additionally established. Generally, taskbar is displayed on the “Primary” monitor but not on the “Secondary” monitor.

### [Supplementation 2]

In multi display environment, the screen setting of primary and secondary monitor (=screen resolution, screen color and refresh rate) is not necessarily have to be the same. Therefore, it is available even when having a different screen setting of “1280x1024x32bit” for primary monitor and “1280x1024x16bit” for secondary monitor.

\* The color model of “Sign as VGA”, “Blue Box”, “Green Box”, “White Box” and “Marine Blue Box” can be used simultaneously with a single PC. Up to 4 units of monitors can additionally be established at max. However, please note that the data transfer rate and the performance may degrade each time the USB peripherals are added.

## Clone Desktop

Clone Desktop (=Synchronous Display) is a method for displaying the same screen on multiple monitors.

The purpose of this is "To show the exact same screen you are currently browsing to the third party on another monitor".

For example, this method can work efficiently with on-screen presentation by using projectors.



### [Supplementation 1]

Basically, resolution, screen color and refresh rate shall be set exactly the same with primary and secondary monitor. Even when the resolution of the main monitor exceeds over "1280 x 1024 x 16bit", the monitor with "Sign as VGA" connected can only display up to the resolution level of "1280 x 1024 x 16bit".

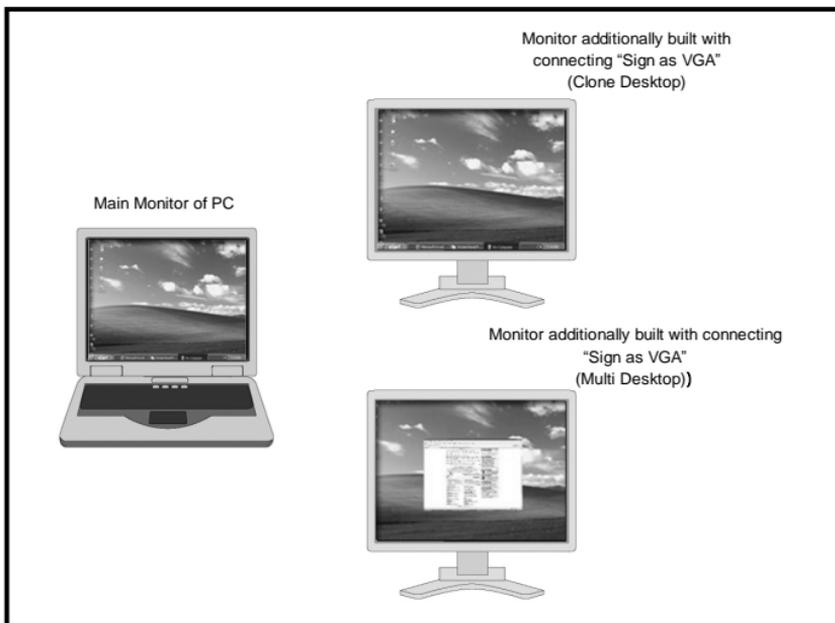
### [Supplementation 2]

The color model of "Sign as VGA", "Blue Box", "Green Box", "White Box" and "Marine Blue Box" can be used simultaneously with a single PC. The same desktop screen as main monitor can be displayed up to 4 units of monitors at max. However, please note that the data transfer rate and the performance may degrade each time the USB peripherals are added.

## Parallel use of Multi Desktop and Clone Desktop

By combining the color model of "Sign as VGA", "Blue Box", "Green Box", "White Box" and "Marine Blue Box", "Multi Desktop" and "Clone Desktop" can easily and simultaneously be displayed which is usually impossible to be performed.

For example, in the case of presentation, more effective presentation can be performed by displaying the reference document on the "Multi Desktop" monitor and presentation screen on the "Clone Desktop" monitor.



### [Supplementation 1]

The monitor with "Sign as VGA" is connected can freely set as either "Multi Desktop" or "Clone Desktop" according to your purposes.

### [Supplementation 2]

The same screen as the one shown on the "Main Monitor" will be displayed on the monitor set as "Clone Desktop". The desktop screen of the extended monitor cannot be displayed on the "Clone Desktop".

## FAQ Troubleshooting

Please refer to the following in case of problem occurrence related to "Sign as VGA" use.

### Problem Avoidance related to Driver Installation

Please execute the following measures in case when "Sign as VGA" driver installation cannot be performed automatically and the alert message informing of the added (searched) wizard of the hardware is displayed. Please read through the description of "<Please set all files to be displayed before starting the above work>" at the bottom of this page in advance to conducting this work.

#### For Windows Vista

1. Click "Locate and install driver software (recommended).
2. Click "Don't search online. Your device may not function properly until you get the latest software".
3. The local disk (C:) is in the item of Computer. Select "Program Files" "Generic Provider" "VGA Adapter( )" (Blue Box:0900, Green Box:0901, White Box:0902, Marine Blue Box:0920) → "Driver" and click "OK".
4. Check that the area of "Search for driver software in this location:" is set as [C:¥Program Files¥ Generic Provider ¥VGA Adapter( )¥Driver] and click "Next".
5. The driver installation begins. After the installation is completed, click "Finish" button.

#### For Windows XP

1. Select "Install from a list or specified location" and click "Next".
2. Tick "Include the next location" and click "Reference" button.
3. The local disk (C:) is in the item of My Computer. Select "Program Files" "Generic Provider" "VGA Adapter( )" (Blue Box:0900, Green Box:0901, White Box:0902, Marine Blue Box:0920) → "WinXP(Driver)" and click "OK".
4. Check that the area of "Include the next location" is set as [C:¥Program Files¥ Generic Provider ¥VGA Adapter( )¥WinXP(Driver)] and click "Next".
5. The driver installation begins. After the installation is completed, click "Finish" button.

#### For Windows 2000

1. Select "Search for the most suitable driver" and click "Next".
  2. Tick "Include the next place" and click "Reference" button.
  3. The local disk (C:) is in the item of My Computer. Select "Program Files" "Generic Provider" "VGA Adapter( )" (Blue Box:0900, Green Box:0901, White Box:0902, Marine Blue Box:0920) and click "OK".
  4. Check that the area of "Include the next place" is set as [C:¥Program Files¥ Generic Provider ¥VGA Adapter( )¥ Win2K(Driver)] and click "Next".
  5. The driver installation begins. After the installation is completed, click "Finish" button.
- \* Please select a drive with OS already installed. (Generally refers to (C:) drive)

<Please set all files to be displayed before starting the above work>

#### For Windows Vista

1. Open "Start > Computer", press Alt key button and click "Tool (T) > Folder Options (O)" in the dialogue menu.
2. Click the "Display" tab in the "Folder Option".
3. Activate "Show hidden files and folders" under the "Hidden files and folders" in the "Files and Folders" of "Advanced settings".
4. Inactivate "Hide extensions for known file types" in "Advanced settings".
5. Click "OK" and end the setting.



#### **For Windows XP**

1. Open "Start > My Computer" and click "Tool (T) > Folder Options (O)" in the dialogue menu.
2. Click the "Display" tab in the "Folder Option".
3. **Activate "Show hidden files and folders"** under the "Hidden files and folders" in the "Files and Folders" of "Advanced settings".
4. **Invalidate "Hide extensions for known file types"** in "Advanced settings".
5. Click "OK" and end the setting.

### **In case of Improper Operation...check the following items**

- Check that the connector is inserted properly.
- Check that the USB port of USB2.0 is used.
- Check that the monitor is connected properly and that power supply is turned ON.
- Connect to analog VGA input terminal without using a conversion adapter.
- Try to connect directly to the PC without using USB HUB.
- Remove all USB peripherals from the PC besides "Sign as VGA".
- Check that the computer is restarted after driver installation.
- Remove "Sign as VGA" unit from USB2.0 port and reinsert into another USB2.0 port.
- Check that the latest driver is applied.
- Change that the refresh rate (horizontal frequency) setting so as to display the correct level.
- In case of the problem occurrence after updating the Windows, reinstall the "Sign as VGA" driver.
- In case of using multiple units of "Sign as VGA", connect them to the PC after conducting a driver installation of the same version.
- In case problem occurs upon OS activation, uninstall the "Sign as VGA" driver in safe mode.
  - \* Safe mode can be executed by pressing "F8" button of the keyboard while BIOS is in operation.
- Install the driver after setting OFF the virus security software or writing software.

### **Latest Driver Installation Process**

The latest driver can be downloaded from our website.

Please refer to <http://www.kairen.co.jp/>.

Check the driver version currently used by following the items below.

#### **For Windows VISTA**

Find the display of "USB 20 SVGA Adapter 0.9xxVer. " in "Control Panel" > "Programs and Features". The last 3 digits of numbers refer to the version number of the current driver.

#### **For Windows XP**

Find the display of "USB 20 SVGA Adapter 0.9xxVer. " in "Control Panel" > "Add or Remove Programs". The last 3 digits of numbers refer to the version number of the current driver.

[Note]

The driver downloaded from the website shall be used in compliance with the license agreement and that the user shall consent to its description upon use.

A full responsibility shall be taken by the user for the use and results of this driver. We assume no liability whatsoever for damages caused under any circumstances.

### • Latest driver installation process

1. Uninstall the "Sign as VGA" driver currently installed with following the instruction manual.
2. Double-click the execution file of the latest version of the downloaded driver.  
\* Please be sure to read the "Instruction Manual" in the driver download item list on the website and install the driver with following the instructions.
3. The driver installation begins. After the installation is completed, click "Finish" button.

## General Questions

### Q. Are there any differences in 4 models of Blue Box, Green Box, White Box and Marine Blue Box?

- A. All of them have the same functionality and performance. By combining with the different color model of "Sign as VGA", up to 4 units of monitors can be additionally established.

### Q. Does the display rate slow down by using multiple units?

- A. Yes, the display rate becomes slower as the number of unit is added due to the increase in data amount.

### Q. Is it possible to use with laptops?

- A. Yes, it is available with laptops compatible with USB2.0. (May not be available depending on the laptops)

### Q. Is it possible to use the LCD of laptops as additional monitors?

- A. No, laptop display cannot be used as additional monitors.

### Q. Is this compatible with USB1.0 or 1.1?

- A. No, not supported.

### Q. In case when a multi display with 2 monitors used is already performed, can a third monitor be additionally established by using "Sign as VGA"?

- A. Yes, it can be built as a "Third Unit" and the operation is enabled.

### Q. When a dual monitor is already performed with laptops, can a third monitor be additionally built by using "Sign as VGA"?

- A. Yes, it can be established as the "third" monitor and operation is enabled properly.

### Q. Does the display rate of the monitor where "Sign as VGA" is connected become faster if the main video card is replaced?

- A. No, the display rate will NOT be changed even the video card is replaced. This is because "Sign as VGA" operates independent from the main video card.

### Q. Does the resolution shall be set to the same level as what is set to the main monitor?

- A. No, that is NOT required. As a video chip (GPU) is built-in this product, individual setting of resolution is enabled as an independent VGA. In another words, it can be used with having a different resolution between the main monitor and the additional monitors.

### Q. Is it possible to connect the old type monitor?

- A. Yes, as long as the monitor is compatible with PnP (plug-and-play). For monitors not compatible with PnP (plug-and-play), the availability of operation cannot be confirmed until actually connected.

### Q. Is there a compatibility issue between the installed video card and the PC unit?

- A. No, compatibility is not a big problem.

\*Excluding the compatibility issue between the video card and the mother board

**Q. Can it be connected as many as the number of USB port terminals?**

- A. No, it cannot be connected as many as the number of USB port terminals. "Sign as VGA" can be additionally established up to 4 units at max. In such case, please combine with the different color models of "Blue Box", "Green Box", "White Box" and "Marine Blue Box".

**Q. What is Primary VGA?**

- A. It refers to the video card already mounted on the PC.

**Q. What is Extended?**

- A. It means to use multiple monitors theoretically as a single unit. By setting to extended mode, it enables to display a wider screen as if the display area of the main monitor is expanded.

## Questions related to installation

**Q. Is it OK to connect "Sign as VGA" to PC in advance to driver installation?**

- A. No, do NOT connect "Sign as VGA" to USB port before the driver installation. Please refer to driver installation descriptions for each OS.

**Q. Is it necessary to install a new driver upon connecting "Sign as VGA" to the different USB port?**

- A. Yes, as this product manages the USB peripherals according to each port, driver update is required upon connecting the product to a different port.

**Q. How can I check the setting of Administrator upon installation?**

- A. Please check that the "User Account" under "Control Panel" is set to Administrator.

## Questions related to performance, function and operational environment

**Q. Is it compatible with Windows98, WindowsMe or WindowsCE?**

- A. No, not supported. It is compatible with WindowsXP/2000. \* Aero function of WindowsVISTA is NOT available. The driver for WindowsMobile5.0/6.0 can be purchased separately.

**Q. Is there any other compatible driver (LINUX or Mac etc) besides Windows?**

- A. No, there is no other compatible driver.

**Q. Is it possible to connect to the normal TV?**

- A. No, it cannot be connected to the normal TV. However, display is enabled when using the TV type of analog RGB input (D-SUB15 pin) that is compatible with plug-and-play.

**Q. How can I find out the driver version of the currently used "Sign as VGA"?**

**A. For Windows VISTA**

Find "USB 20 SVGA Adapter Ver.xx" in the "Control Panel" > "Programs and Features". The last digits of number (x.x indicated next to Ver.) refer to the driver version number.

**Q. How can I check whether or not the USB2.0 is installed on the currently used PC?**

**A. For Windows VISTA**

Select "Start" "Computer" (Right-Click) "Property" "Device Manager". If you can find "USB2.0 Route Hub" in the "USB" item of device manager, it means that the USB2.0 driver is installed properly.

\* In some cases, representation other than "USB2.0 Route Hub" may be indicated depending on the USB2.0 controller. (Ex: USB2EnhancedHostController etc.) Please contact to PC manufacturer if you have any questions.

**Q. Is it compatible with OS version of 64bit?**

- A. No, not supported.

**Q. Is it compatible with vertical display?**

A. Yes. But a dedicated utility software is required separately for the monitor with "Sign as VGA" connected.

**Q. Is it compatible with large sized monitors?**

A. Yes, with the monitors capable of setting the resolution compatible with "Sign as VGA". Also, monitors compatible with Mini D-Sub 15pin analog VGA can be used.

**Q. Is it possible to use it as a main monitor?**

A. No. Please use with the secondary unit onwards.

**Q. What is the utility software of video card?**

A. It is a software for setting video cards

**Q. Is a conversion adapter available?**

A. Please be reminded that this issue is out of our service.

**Q. Is there a way to use with 30 pin connector?**

A. Unfortunately, there is no way. Please use with the monitor compatible with Mini D-Sub 15 pin.

**Q. Is the software not supported to multi display is enabled?**

A. No, this is not used for the purpose of changing the software specification.

**Q. Is the monitor with touch panels available?**

A. Please be reminded that this issue is out of our service.

**Q. Is it compatible with smart phones?**

A. Yes, supported. The use of "Mobile Connectivity Kit compatible with Sign as VGA series" is separately required.  
\* Please check the required operational environment at our website.(<http://www.kairen.co.jp/>)

## Question related to usage

**Q. How can I display the target screen on the secondary monitor?**

A. Please drag and drop the application window and move it to the secondary monitor. Please minimize the screen size of the window before moving the target application window.  
\* Application shall be compatible with multi desktop.

**Q. Is it available without MMPT?**

A. Yes, it is available. Please install the driver and use it.

**Q. Is MMPT required for performing a dual display?**

A. No, not necessary. Drag and drop the application window and move the window to the secondary monitor.

**Q. What is UV icon?**

A. It refers to the icon indicated at the right corner on the taskbar. By right-clicking this icon, administration menu will be displayed. Refer to P.20.

**Q. How can I remove "Sign as VGA" while OS is being activated?**

A. Tick "USB-VGA (Off)" in the pull-up menu of "UV" icon on the right of the resident taskbar. As this stops the operation of "Sign as VGA", you can remove it safely. "When "Sign as VGA" is set as primary display, reset to USB-VGA (Extended) once, and then tick "USB-VGA (Off)".

**Q. Display rate becomes slower as the resolution becomes higher.**

A. Yes, this is because the amount of data is increased as the resolution becomes higher.

**Q. Can a screen saver be displayed on the secondary monitor as well?**

A. Please use the screen saver compatible with the multi desktop. The screen saver that requires DirectX or OpenGL is NOT available.

**Q. Can the same screen be displayed?**

A. Yes, it is enabled with selecting Mirror by right-clicking the UV icon. To display the same screen as the one displayed on the primary monitor is generally called Clone Desktop (=mirroring).

**Q. Display image is too large.**

A. The resolution setting is enabled from the UV icon menu. Please change the resolution to the level compatible with monitor.

**Q. How can I change the display size to the same size set to the main monitor?**

A. Please set the same level of resolution as the main monitor. However, the monitor with the same size as the main monitor is required.

**Q. Can the monitor be installed in 2 lines in both horizontal and vertical direction?**

A. Yes, please set "Display Properties" of the Windows upon use.

**Q. Can icons be displayed on the extended monitor as well?**

A. It is reset upon system activation. Please use it on the main monitor.

**● Causing errors or failures?**

**Q. Installation is disabled.**

A. It depends on the utility software type of video card already incorporated in the PC, but there is some product that eliminates the setting of video card. When using such products in parallel, please check whether or not the relevant utility software is being installed. If any installation is found, please invalidate the utility software before switching the monitor where "Sign as VGA" is connected to the main monitor.

**Q. The distortion occurs on the displayed image after using it for a while.**

A. Please reinstall the driver of the latest version. Improper action may occur due to the software installation.

**Q. The screen of "Sign as VGA" is displayed very slowly or mouse pointer moves as if it is jumping.**

A. There is a high possibility that USB2.0 is not being activated properly or "Sign as VGA" is connected to USB1.0 or 1.1. When using this product with USB1.0 or 1.1, it causes delay on the data transfer rate and therefore cannot maintain the normal display speed. There are 3 modes for USB data transfer that is **Low Speed Mode (1.5Mbps)**, **Full Speed Mode (12Mbps)** and **High Speed Mode (480Mbps)**. **HS mode is only available with USB2.0 for data transfer.**

**Q. Although USB2.0 driver is installed, the operation is disabled under HS mode.**

A. Please check that USB port is compatible with 2.0.  
\*Please contact manufacturer for the details on PC specification.

**Q. The USB port is unavailable.**

A. The cause of this symptom comes from the USB port of the PC, not from "Sign as VGA".  
\*Please check with PC manufacturer.

**Q. The game software is not activated.**

A. "Sign as VGA" cannot support DirectX. Please note that no game software compatible with DirectX is available.

**Q. The DVD playback software is NOT displayed (activated) on the extended display.**

A. Some DVD playback software that is non-compatible with the extended display cannot be displayed (activated).

**Q. "Media Player" cannot be displayed (activated) on both main display and the extended display at the same time**

A. "Media Player" cannot be activated on both main display and the extended display at the same time. Please activate "Media Player" only after having it moved to either one of the two displays.

**Q. The specific application software cannot be displayed properly.**

- A 1. Some application software cannot be displayed properly due to insufficient memory or unsupported multi display. In such case, use of main display is recommended.
- A 2. Please note that the application that requires DirectX or OpenGL is not supported. Therefore, the operation is NOT enabled.
- \* Please contact to manufacturer for more details on software specification etc.

**Q. "USB Hub Power Exceeded" error occurs.**

- A. This error occurs when the total power of the device where USB port is connected exceeds over the amount of power supplied from the USB port.
- This symptom is not found on all PCs. In case of using laptops, this error may be caused depending on the USB2.0 interface card performance that is compatible with PC card slot. Or when WindowsXP is used as OS, this symptom may occur by SP2 installation.
- In such case, please replace the connecting USB port or remove other USB peripherals upon use.

**Q. Although the driver installation is completed, I cannot tick the items other than "USB-VGA (Off)" in the utility of "Sign as VGA".**

- A. This symptom occurs when the driver is NOT installed properly.
- Please uninstall the current driver and reinstall the driver.
- \* When using the security software or using the utility software of the video card, a proper activation may not be performed due to the cause of interference with "Sign as VGA" driver.
- In such case, please reinstall the driver after invalidating each software.
- \* Please contact to support desk of each software manufacturer for further details on software invalidation.

**Q. Although the operation is performed properly, UV icon is not displayed.**

- A. Please remove "Sign as VGA" from the USB port once and then reconnect it.

**Q. PC activation and termination is NOT performed properly.**

- A. Please check the operation by connecting this unit to PC after PC startup. "Sign as VGA" may NOT be recognized properly. Please be reminded that this is due to PC specification and not a failure.

**Q. PC restart is being repeated.**

- A. Please check that PC currently used meets the required operational environment.
- \* This symptom is found often when USB port is NOT working properly or when using USB port of 1.0 or 1.1.

**Q. I cannot tick "USB-VGA (Primary)" in the utility of "Sign as VGA".**

- A. This symptom occurs when the video card setting of the PC is fixed. Please be reminded that this is due to PC specification and not a failure.

**Q. The mouse pointer cannot be moved from the right corner of the main display to the left corner of the extended display.**

- A. Please check that display number of "2" is shown on the right of the display number "1" on the "Display Properties".
- \* "Display Properties" will be opened by selecting "Property" after right-clicking on the screen where no icon or window is displayed.
  - \* The number of "1" and "2" on the "Display Properties" can be replaced by drag and drop.

**Q. A crossbar is displayed on the screen.**

- A. This symptom occurs when the refresh rate is not set properly. The refresh rate can be changed from "Display Properties" "Setting" "Advanced settings" "Monitor" "Monitor Setting".  
\* Please check and set the refresh rate supported by the monitor upon change. It will NOT be displayed properly if non-supported refresh rate is selected. This may seriously risk the monitor life that leads to the cause of damage.

**Q. Both end of the screen is displayed in black.**

- A. Please change the resolution setting to another level once. Or please press the auto-tuning button of the monitor.  
\* Please contact to manufacturer for further details on auto-tuning button.

**Q. Although the installation is completed and reboot had been conducted, nothing is displayed.**

- A. This is not a failure. This is the status of either background color or the wall paper is being displayed. This can be confirmed by moving the window to the additionally established monitor. First, click "Maximize/Minimize" button on the upper right of the window that shall be moved to bring into movable status. Then, drag the title bar of the window (with pressing the left button of the mouse) and move to the monitor where "Sign as VGA" is connected.

**Q. Nothing is displayed even now...**

- A1. The screen output may not be conducted when using the conversion adapter in parallel. Please use Mini D-sub15 pin monitor. \*Please be reminded that the use of conversion adapter in parallel is out of service.  
A2. Please check whether or not the operation of the connected monitor is working properly.  
\*Please contact to each manufacturer for the details on the monitor specification.

**Q. The operation of only one unit out of the multiple units is being fluctuated.**

- A. Please reinstall the driver for each color model of the same version.

**Q. "Sign as VGA" became unavailable on WindowsXP after ServicePack2 (hereafter called SP2) installation.**

- A. SP2 status may be unstable in the aspect of multi media or security. "Sign as VGA" may not activate properly under the environment of SP2 only occasionally. In such case, the problem can be solved by uninstalling the SP2.

**Q. The display number "1" cannot be set to the monitor where "Sign as VGA" is connected.**

- A. It depends on the utility software type of the video card already incorporated in the PC, but there is some product that eliminates the setting of video card other than the one already built-in the PC to be set on the main monitor (display number 1). When using in parallel with these products, please check whether or not the relevant utility software is being installed. If any installation is found, please invalidate the utility software before switching the monitor where "Sign as VGA" is connected to the main monitor.

**Q. The display position of the monitor cannot be fixed.**

- A. It depends on the security software or the utility software type of the video card already incorporated in the PC, but there is some product that eliminates the setting of video card other than the one already built-in the PC. When using in parallel with these products, please check whether or not the relevant utility software is being installed. If any installation is found, please invalidate the utility software before switching the monitor where "Sign as VGA" is connected to the main monitor.

**Q. When "Sign as VGA" is reinserted to another port, OS demands the driver installation of the device.**

- A. The OS manages the USB port individually. Therefore, driver installation is required upon connecting "Sign as VGA" to the port different from the one used on the initial driver installation.

**Q. The characters are shown in blurred images when "Sign as VGA" is connected to a large sized monitor.**

- A. The higher resolution is recommended for large sized monitors, and therefore causes blur on the images with lower resolution. This symptom is due to the characteristic issue of the large sized monitors, and has nothing to do with "Sign as VGA".

**Q. The display flickers in 1 or 2 second cycle.**

- A. Please optimize the refresh rate of the monitor from "Display Properties"

**Q. The driver CD is NOT operated.**

A. When AutoRun is invalid, please conduct CD operation from "Computer".

**Q. The driver CD is NOT recognized.**

A. In case of slim type CD-ROM drive, it may NOT be read in properly. Please download the driver from our website of <http://www.kairen.co.jp/>.

**Q. The LED is being illuminated even when the power of PC is turned OFF. Is this OK?**

A. Yes, this is due to the specification of "Sign as VGA". No problem.

**Q. The alert message appears upon driver uninstallation. What shall I do?**

A. Please press Reboot button when the alert message of Locked File Detective appears on the screen upon uninstallation. By pressing Finish button, the system will be restarted and terminated at the end.

"Sign as VGA" Instruction Manual Ver. 7.5

---

Third Edition Issued on August 2007  
Issued by KAIREN Co., Ltd.  
Copyright © KAIREN Co.,Ltd. All rights reserved

Contact: KAIREN Co., Ltd  
Hoei BLDG. 5F, 11-1, Miyuki-cho, Tokorozawa-shi, Saitama Zip 359-1115  
TEL. 81-4-2928-6836 FAX. 81-4-2929-6297 E - MAIL. support@kairen.co.jp