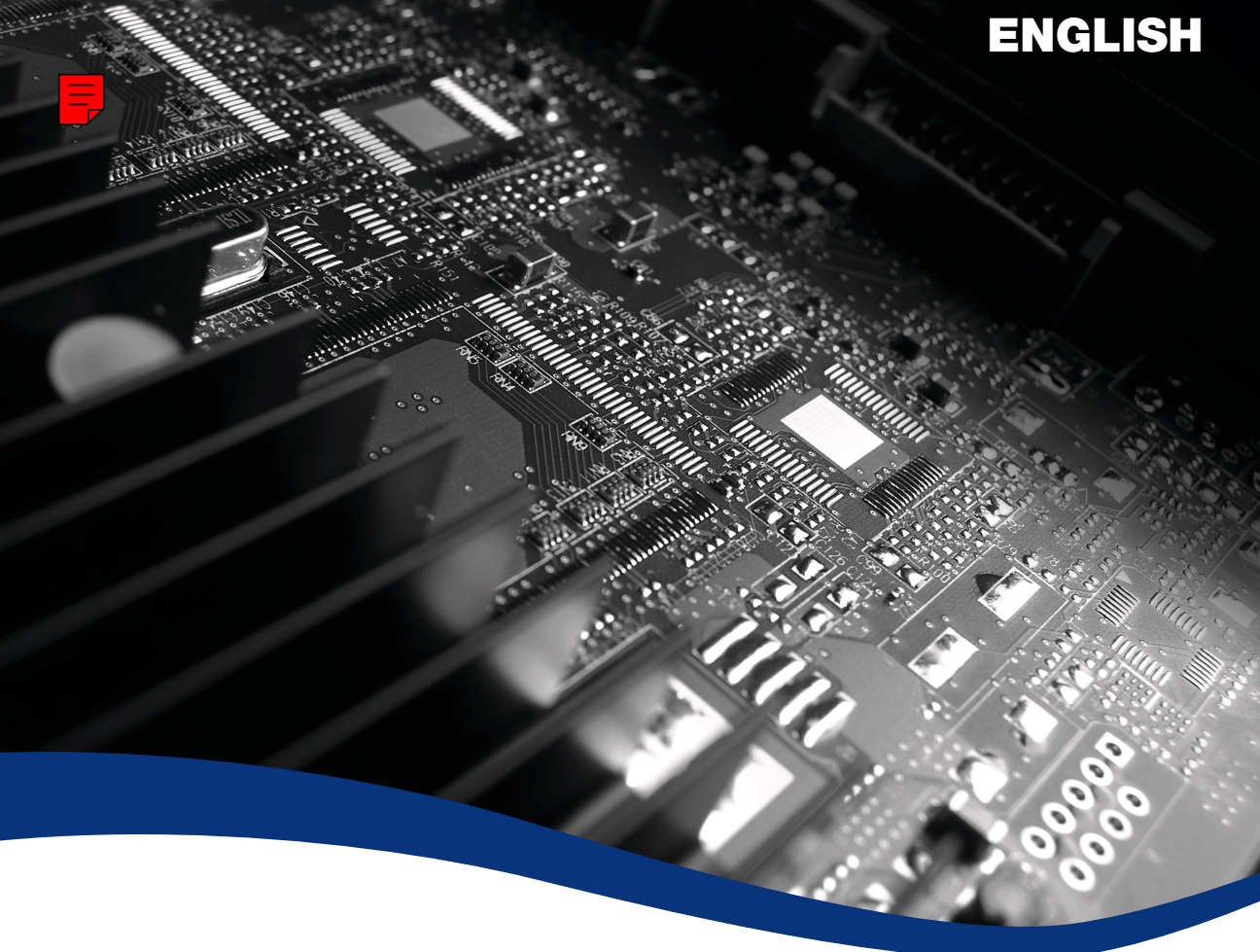


ENGLISH



Matrox **Veos**

User Guide

20073-301-0105
2008.08.08

www.matrox.com/graphics

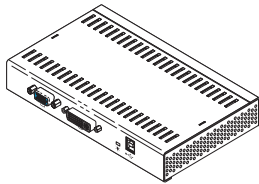
matrox[®]
Graphics for Professionals

Overview

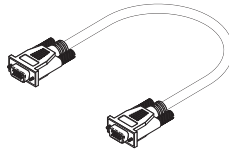
Thank you for purchasing Matrox Veos. Your Veos product consists of 3 components—the Master, Display, and Repeater units—that work together to extend your graphics data over 100 meters per unit. Providing high image quality, multiple channels of content, and multi-display support at great distances, your Matrox Veos product is designed to meet the needs of the digital signage market.

Hardware supplied

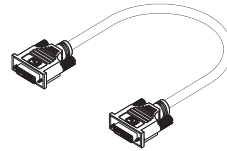
Master unit



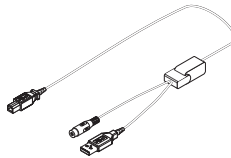
Matrox Veos Master Unit



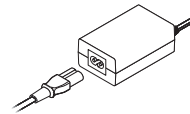
Matrox cable
(HD15-to-HD15)



Matrox cable
(DVI-to-DVI)

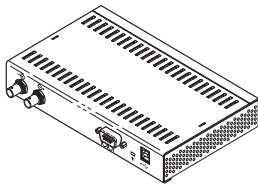


Power/USB cable

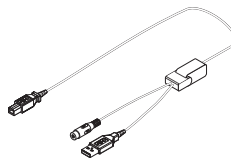


Power supply

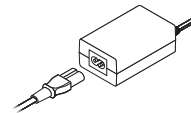
Display unit



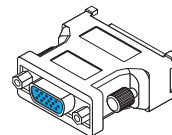
Matrox Veos Display Unit



Power/USB cable

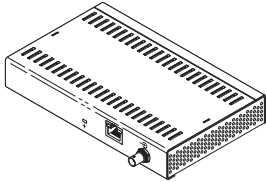


Power supply



2 DVI-to-HD15 adapters

Repeater unit



Matrox Veos Repeater Unit

Additional hardware required

To connect your Matrox Veos product, you also need the following hardware:

- Supported coaxial cables
- RS-232 serial cables (only if connecting RS-232 monitors)
- Repeater unit – PoE (Power Over Ethernet) power supply unit and twisted pair cables (CAT5 or CAT6)

Software supplied (for Windows 2000, Windows XP, Windows XP Professional x64, and Windows Vista)

- Matrox PowerDesk-SE – to use your Matrox product. Matrox makes new display drivers available on the Matrox Technical Support Web site (www.matrox.com/graphics/support/drivers).

Installation overview

To install your Matrox product:

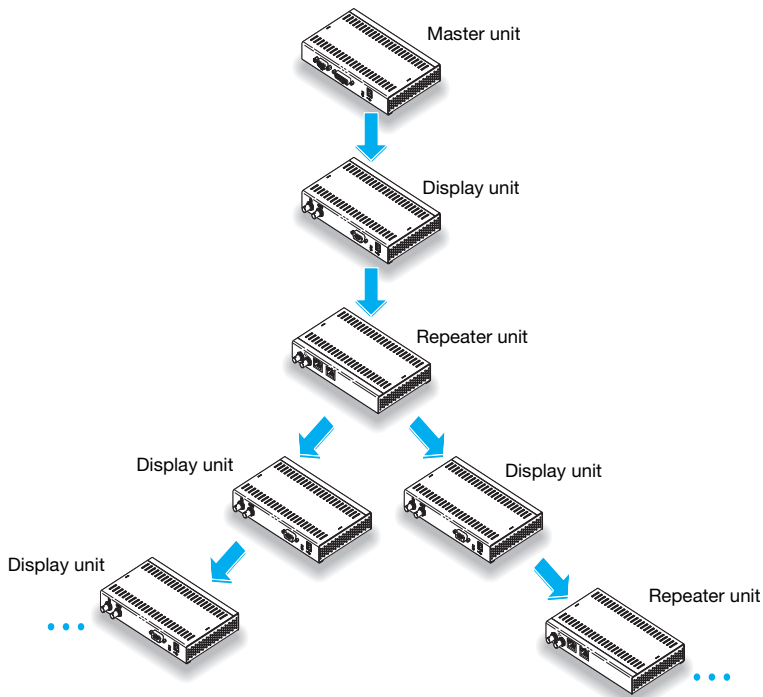
- 1 Connect your monitors and Veos units – see “Connection setup”, page 4.
- 2 Install the software – see “Software setup”, page 13.

Connection setup

This section describes how to connect your Matrox Veos product. Your Veos product consists of 3 components that work together to extend your graphics data over 100 meters per unit:

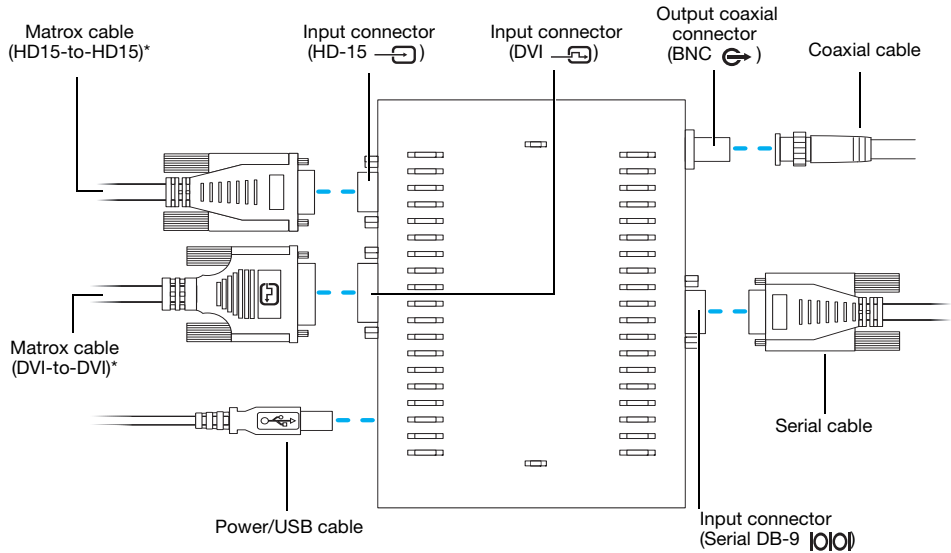
- **Master unit** (required) – connects to your computer.
- **Display unit** (required) – connects to your monitors. The input can come from a Master, Display, or Repeater unit. The output can go to a Display or Repeater unit.
- **Repeater unit** (optional) – connects to another Veos unit. The input can come from a Master, Display, or Repeater unit. The output can go to a Display or Repeater unit.

The following is an example of a possible Veos setup.



WARNING: Because your units disperse heat, they may become warm during operation. Make sure your units are located in a well ventilated area and nothing is blocking their ventilation holes.


Connection overview – Master unit




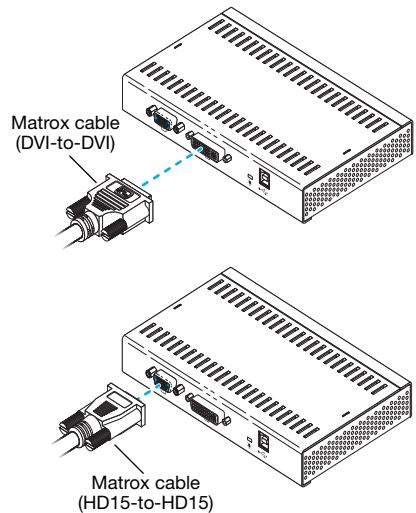
* Depending on your graphics hardware, you need to attach *either* the Matrox HD15-to-HD15 cable or the Matrox DVI-to-DVI cable to the input connector on your Master unit.

Step-by-step connection setup – Master unit


1 Attach the Matrox cable

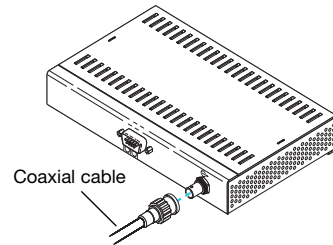
If your graphics hardware has a DVI connector, attach one end of the Matrox cable to the graphics connector on your computer. Attach the other end of the cable to the DVI input connector () on your Master unit.

If your graphics hardware has an HD-15 connector, attach one end of the Matrox cable to the graphics connector on your computer. Attach the other end of the cable to the HD-15 input connector () on your Master unit.



2 Connect the coaxial cable


Connect your coaxial cable to the output coaxial connector () on your Master unit.

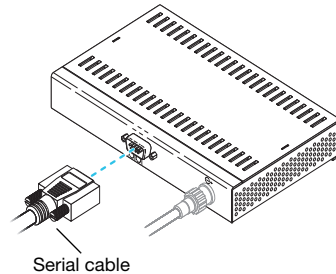


3 Connect the serial cable (optional)


If you want to use a monitor that has an RS-232 serial port connector, you need to connect a serial cable to the DB-9 connector on your Master unit.

Connect one end of your RS-232 serial cable (sold separately) to the RS-232 connector on your computer.

Connect the other end of your cable to the DB-9 input connector () on your Master unit.

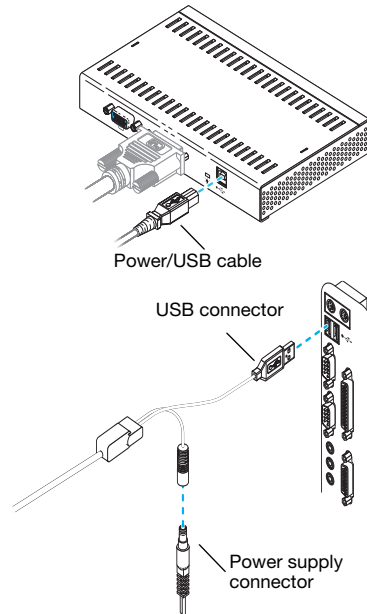


4 Connect the Power/USB cable

Plug one end of the Power/USB cable provided with your Master unit into the USB connector () on your Master unit.

Plug the power supply connector of the Power/USB cable into the external power supply provided with your Master unit.

Plug the USB connector into a USB port on your computer.



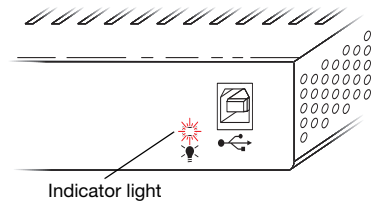
Note: For your Master unit to work properly, both the power supply connector and USB connector of the Power/USB cable must be plugged in at the same time.

5 Check the indicator light

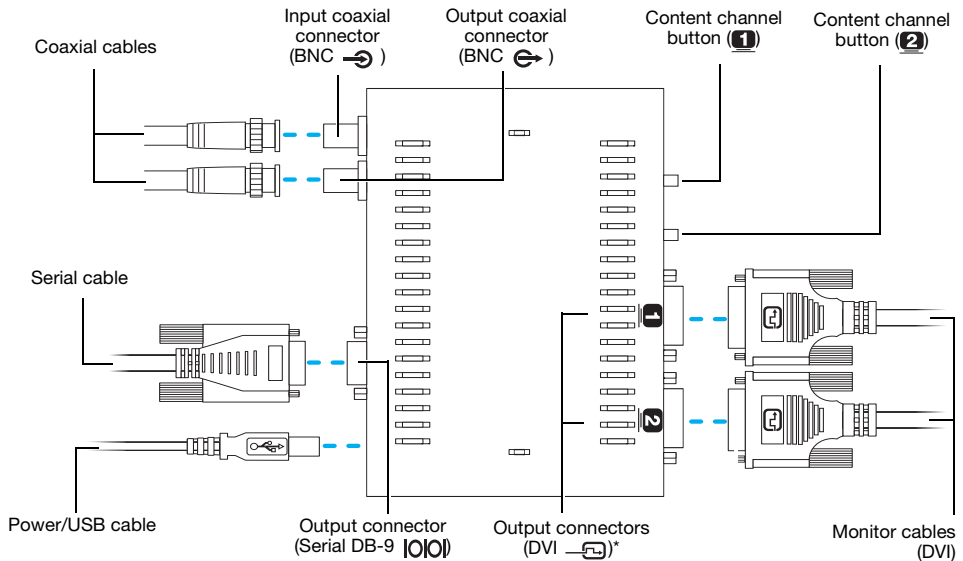
If the indicator light is on (green or red), your Master unit is properly connected.

If the indicator light is off (black), make sure your Master unit is properly connected and that all connectors are properly fastened.

For more information, see “Description of indicator lights”, page 12.



Connection overview – Display unit



* If your monitor has an HD-15 connector, use a DVI-to-HD15 adapter included with your Display unit to connect your monitor to the monitor connector on your Display unit.




Note: To get the most out of your Matrox product, we recommend you use identical monitors (that is, monitors that support the same settings such as display resolution, refresh rate, and aspect ratio). For information on the settings your monitor supports, see your monitor documentation.




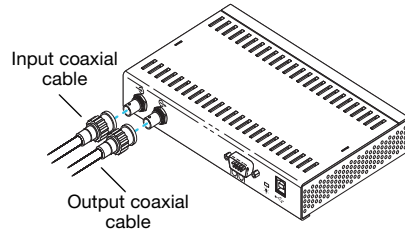
WARNING: Don't change monitor connections while your computer is turned on. While your computer is turned on, it may be using monitor settings that are specific to the current monitor connections. *Some* devices may be permanently damaged if incorrect settings are used.

Step-by-step connection setup – Display unit


1 Connect the coaxial cable

Connect the input coaxial cable to the input coaxial connector () on your Display unit.


To connect your Display unit to another Veos unit (Display or Repeater), connect a second coaxial cable to the output coaxial connector () on your Display unit.

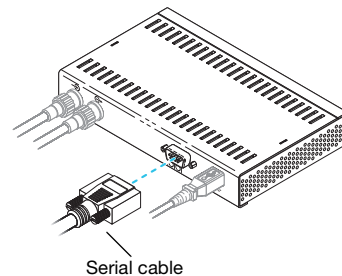
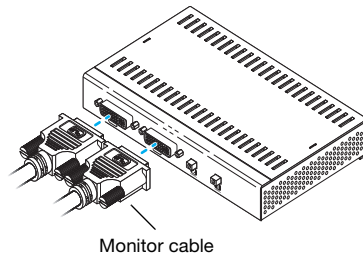


2 Connect your monitors

If your monitor has a DVI connector, connect it directly to the connector labeled () on your Display unit.

If your monitor has an HD-15 connector, use a DVI-to-HD15 adapter included with your Display unit to connect your monitor to the monitor connector on your Display unit.

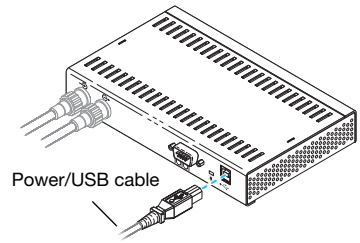
If your monitor has an RS-232 serial port connector, attach one end of your RS-232 serial cable to the connector on your monitor. Attach the other end of the cable to the DB-9 output connector () on your Display unit.



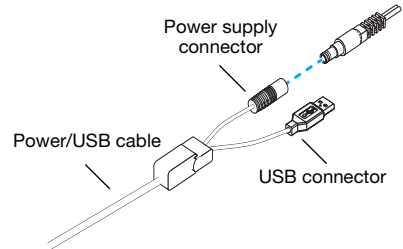
Note: Some monitors that have RS-232 serial port connectors support daisy chaining. For information on the capabilities of your monitor, see your monitor documentation.

3 Connect the Power/USB cable

Plug one end of the Power/USB cable provided with your Display unit into the USB connector (🔌) on your Display unit.



Plug *only* the power supply connector of the Power/USB cable into the external power supply provided with your Display unit. The USB connector remains unplugged.

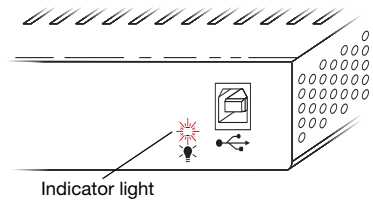


4 Check the indicator light

If the indicator light is on (green or red), your Display unit is properly connected.

If the indicator light is off (black), make sure your Display unit is properly connected and that all connectors are properly fastened.

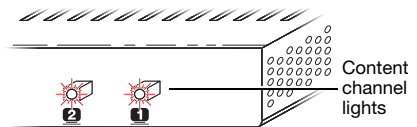
For more information, see [“Description of indicator lights”, page 12.](#)



5 Check the content channel lights

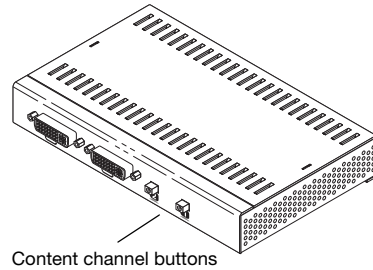
If the content channel lights are green, your Display unit is properly connected.

If the content channel lights are red, make sure the coaxial cables are properly connected and that all connectors are properly fastened.

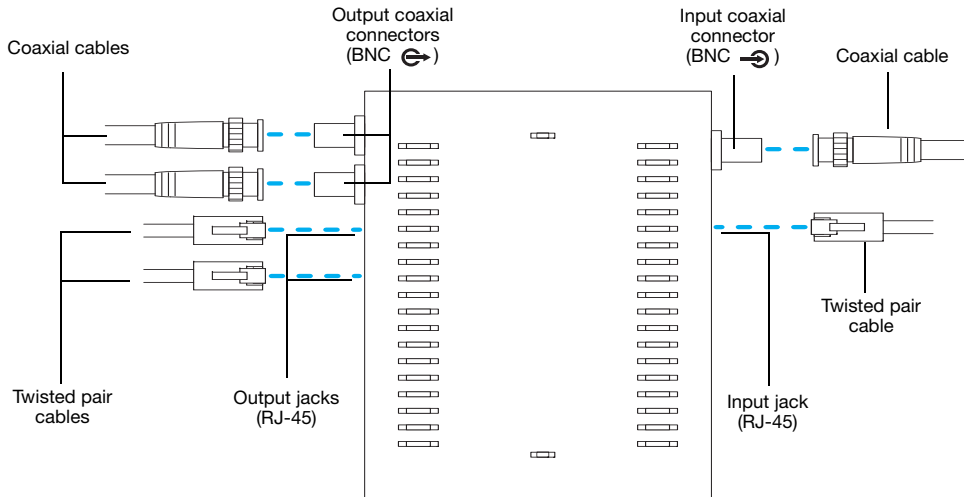


6 Set the content channels

Press button 1 (**1**) to set the content channel for monitor 1 (**1**), and press button 2 (**2**) to set the content channel for monitor 2 (**2**). You may need to press the buttons repeatedly to cycle through the available content channels (**CH01**, **CH02**, or **CH03**).




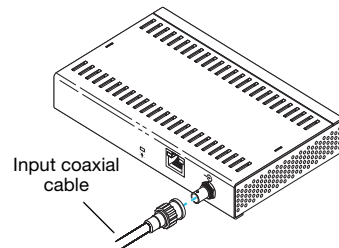
Connection overview – Repeater unit




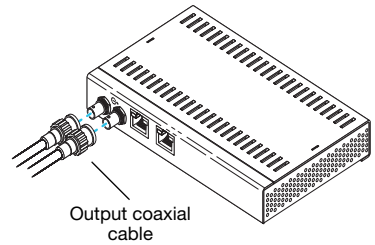
Step-by-step connection setup – Repeater unit

1 Connect the coaxial cable

Connect the input coaxial cable to the input coaxial connector () on your Repeater unit.

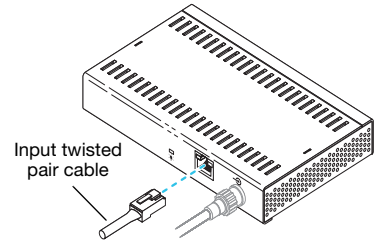


To connect your Repeater unit to another Veos unit (Display or Repeater), connect a second coaxial cable to the output coaxial connector () on your Repeater unit.



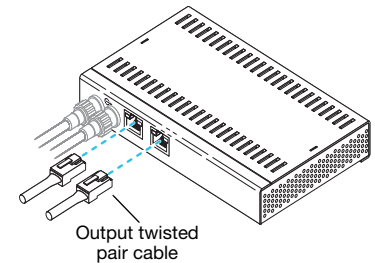
2 Connect the twisted pair cable

Plug one end of your twisted pair cable into the RJ-45 input jack on your Repeater unit.



Plug the other end of your twisted pair cable into a PoE (Power Over Ethernet) power supply unit (sold separately), then plug the PoE power cord into your power supply.

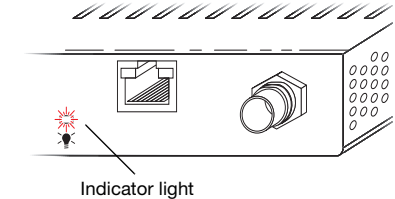
To power another Repeater unit, plug one end of your twisted pair cable into the RJ-45 output jack on your Repeater unit. Plug the other end of your twisted pair cable into the RJ-45 input jack on the next Repeater unit.



3 Check the indicator light

If the indicator light is on (green or red), your Repeater unit is properly connected.

If the indicator light is off (black), make sure your Repeater unit is properly connected and that all connectors are properly fastened. For more information, see [“Description of indicator lights”, page 12.](#)



Your Matrox product is now connected. Restart your computer and install your Matrox software (see [“Software setup”, page 13.](#))

Description of indicator lights

The indicator lights on your Veos units provide status information on your connection setup. The following describes the different indicator lights on your Veos units:

	Red indicator light	Green indicator light	No indicator light (black)
Master unit	Unit is powered. Unsupported display resolution is selected.	Valid input signal is detected.	Unit isn't powered.
Display unit	Unit is powered. No valid input signal is detected.	Valid input signal is detected.	Unit isn't powered.
Display unit (Content channel lights)	Unit is powered. Coaxial cable may not be connected or an unsupported coaxial cable is connected.	Coaxial cable is supported and properly connected.	Unit isn't powered.
Repeater unit	Unit is powered.	Valid input signal is detected.	Unit isn't powered.

After restarting your computer, the indicator lights on your Veos units should all be *green*. If the indicator lights on your Veos units aren't green, see [“Troubleshooting”](#), page 14.

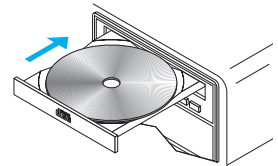
Software setup



Note: This guide has references that are specific to the Matrox installation CD-ROM. If a CD-ROM wasn't provided with your Matrox product, contact your Matrox representative.

This section describes how to install Matrox software for *Windows 2000*, *Windows XP*, *Windows XP Professional x64*, and *Windows Vista*.

You may need administrator rights to install certain software. For more information, see Windows documentation or contact your system administrator.





1 Install your Matrox software

Insert the Matrox installation CD-ROM in your CD-ROM drive – the CD-ROM installation program automatically starts.* Follow the on-screen instructions.

2 Change your display settings (optional)

After the installation is complete, you'll be prompted to change your current display settings (for example, your display resolution). If you want to change your current display settings, use Matrox PowerDesk software to change these settings. For more information on how to change your display settings, see Matrox PowerDesk help.

Accessing PowerDesk

Your Matrox software includes Matrox PowerDesk software. This software helps you get the most out of your Matrox product. Use Matrox PowerDesk software to change certain display settings or access Matrox features. To access PowerDesk, click its icon () on your Windows taskbar. To see the PowerDesk icon, you may need to click the **Show hidden icons** button () on your Windows taskbar.

You can also access Matrox PowerDesk by clicking **Start** → **All programs** → **Matrox Graphics** → **Matrox PowerDesk-SE**.

For more information on how to use Matrox PowerDesk, see Matrox PowerDesk help.

* If Windows doesn't automatically start the setup program, you can run the setup program from the *Umbrella* folder of the CD-ROM.

Troubleshooting

This section addresses possible problems that could prevent you from using your Matrox product.

Problem Computer doesn't display information after Matrox product is connected

Cause Your Matrox product may not be properly connected.

Solution Make sure your Matrox product is properly connected and that all connectors are properly fastened. For more information, see [“Connection setup”](#), page 4.

Cause Your computer may be turned off.

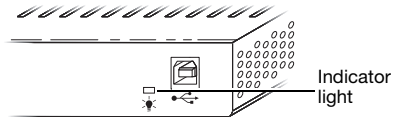
Solution Make sure your computer is turned on.

Cause A display resolution may have been selected in Windows but may not be supported by your Matrox product.

Solution Use Matrox PowerDesk software to change your display resolution. For more information, see Matrox PowerDesk help.

Problem No indicator light (black)

Cause Your Power/USB cable or twisted pair cable may not be properly connected.



Solution Make sure your Power/USB cable or twisted pair cable are properly connected. For more information, see [“Connection setup”](#), page 4.

Problem Indicator light is red

Cause Master unit only – Your Master unit may not support the selected display resolution.

Solution Make sure your Master unit supports the selected display resolution. For more information, see Matrox PowerDesk help.

Cause The segment length of your coaxial cable may be too long.

Solution Make sure the segment length of your coaxial cable is supported by your Matrox product. For more information, see [“Product information”](#), page 21.

Solution To add more distance, connect one or more Repeater units to your setup. For more information, contact your Matrox representative.

Cause The coaxial cable or connector you’re using may not be supported by your Matrox product.

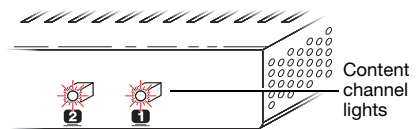
Solution For more information on supported coaxial cables and connectors, see [“Product information”](#), page 21.

Cause The connector on your cable may not be properly crimped.

Solution Try re-crimping the connector on your cable.

Problem Content channel lights on Display unit are red

Cause Your Display unit can’t detect an input signal.



Solution Make sure the coaxial cable is properly connected to the input coaxial connector on your Display unit and all connectors are properly fastened.

Cause The coaxial cable you’re using may not be supported by your Matrox product.

Solution For more information on supported coaxial cables, see [“Product information”](#), page 21.

Problem Can’t select one or more resolutions supported by your monitor

Cause Windows may list certain display resolutions, even though they may not be supported by your Matrox product.

Solution Make sure your Matrox product supports the selected display resolution. For more information, see Matrox PowerDesk help.

Solution Make sure your Matrox software is installed. For more information, see [“Software setup”](#), page 13.

Cause Windows identifies the highest display mode and discards all modes with a higher vertical or horizontal resolution. In Windows 2000/XP, the highest display mode is the one with the highest horizontal resolution. In Windows Vista, the highest display mode is the one with the highest vertical resolution.

Solution Disable Windows mode filtering to view all available display modes:

Windows XP –

- 1 Right-click your Windows desktop background, then click **Properties** → **Settings**.
- 2 Select the display for your product, then click **Advanced** → **Monitor**. Make sure **Hide modes that this monitor cannot display** is clear.
- 3 Click **OK** → **OK**.

Windows Vista –

- 1 Right-click your Windows desktop background, then click **Personalize** → **Display Settings**.
- 2 Select the display for your product, then click **Advanced Settings** → **Monitor**. Make sure **Hide modes that this monitor cannot display** is clear.
- 3 Click **OK** → **OK**.

Problem **Display on flat panel monitor appears blurry or uses only a portion of the screen**

Cause You may be using different types of monitors.

Solution To get the most out of your Matrox Veos product, we recommend you use identical monitors (that is, monitors that support the same settings such as display resolution, refresh rate, and aspect ratio). For more information on the settings your monitor supports, see your monitor documentation.

Cause The image quality of your displays may need to be adjusted.

Solution Use the **Adjust Image Quality** option in Matrox PowerDesk to adjust the image quality of your displays. For more information, see Matrox PowerDesk help.

Cause You may be using a lower display resolution than what your flat panel monitor supports. If your monitor supports display scaling, the image on your screen may appear blurry. If display scaling isn't supported, the display may use only a portion of your screen.

Solution Select the highest display resolution available. This generally results in better image quality.

Problem Wrong color balance, screen image off-center, or no picture at all

Cause Your computer may be turned off.

Solution Make sure your computer is turned on.

Cause The power saving settings on your computer or monitor may not be properly set.

Solution Adjust the power saving settings on your computer or monitor.

Cause Your Matrox product may not be properly connected.

Solution Make sure your Matrox product is properly connected and that all connectors are properly fastened. For more information, see “[Connection setup](#)”, page 4.

Cause Your secondary display may not be enabled in Windows.

Solution Make sure your display is enabled:

Windows 2000/XP –

- 1** Right-click your Windows desktop background, then click **Properties** → **Settings**.
- 2** Select any disabled display, enable the **Extend my Windows desktop onto this monitor** check box, then click **Apply**.

Windows Vista –

- 1** Right-click your Windows desktop background, then click **Personalize** → **Display Settings**.
- 2** Select any disabled display, enable the **Extend the desktop onto this monitor** check box, then click **Apply**.

Solution If no secondary display is available in Windows, your secondary display may not be enabled on your system. For more information on how to enable your secondary display, see your system or graphics hardware documentation.

Cause You may be using different types of monitors.

Solution To get the most out of your Matrox Veos product, we recommend you use identical monitors (that is, monitors that support the same settings such as display resolution, refresh rate, and aspect ratio). For more information on the settings your monitor supports, see your monitor documentation.

Cause Your monitor video controls may be improperly set.

Solution Adjust your monitor controls (brightness, contrast, and so on). For more information, see your monitor manual.

Cause Your monitor may not be properly connected.

Solution Make sure your monitor is properly connected to the connector on your Display unit.

Solution Make sure the monitor power cable is firmly in place.

Solution Make sure the connection to the back of the monitor is firmly in place.

Cause If your monitor supports multiple input sources (analog/digital), it may be configured to use the wrong source.

Solution Make sure your monitor is using the correct input source. For more information on selecting the input source for your monitor, see your monitor documentation.

Solution Change your connection setup to use a different input source.

Problem **After the startup screen, or after display settings are changed, the screen image is garbled or unusable**
(blank screen, rolling or overlapping screen images)

Cause An unsupported display mode may have been selected.

Solution If one of your displays is usable, use Matrox PowerDesk to change your display mode. For more information, see Matrox PowerDesk help.

Solution If all your displays are unusable, change your display resolution in Windows.

- 1 Restart your computer in VGA mode.

Windows 2000/XP/Vista –

- a Click **Start** → **Shut Down** → **Restart** → **OK*** to restart your computer. (* Depending on your version and configuration of Windows, this part of the step may not be necessary.)

If your primary monitor is unusable, see your system manual for information on how to restart your computer using a hardware control.

- b *Before* Windows starts, press [F8] for the Windows startup menu to appear. (If [F8] doesn't work, instead try pressing and holding [Ctrl] before Windows starts.)

Select "VGA mode" (or "Low resolution video"), then press [Enter].

- 2 Change your display resolution:

Windows 2000 –

- a Right-click your Windows desktop background, then click **Properties** → **Settings**.
- b Move the **Screen area** slider to a lower setting, then click **OK**.

Windows XP –

- a** Right-click your Windows desktop background, then click **Properties** → **Settings**.
- b** Move the **Screen resolution** slider to a lower setting, then click **OK**.

Windows Vista –

- a** Right-click your Windows desktop background, then click **Personalize** → **Display Settings**.
 - b** Move the **Resolution** slider to a lower setting, then click **OK**.
- 3** Restart your computer normally.

Problem Matrox product isn't automatically detected

Cause Your Matrox product may not be properly connected.

Solution Make sure your Matrox product is properly connected and that all connectors are properly fastened. For more information, see [“Connection setup”](#), page 4.

Cause Your Matrox product may not support the selected display mode.

Solution Make sure your Matrox product supports the selected display mode.

Problem Screen image defects appear (tearing)

Cause You may be using a higher display resolution than what your graphics hardware supports.

Solution Select a lower display resolution. This generally results in better image quality.

Solution If you're using a 32-bit color palette, try using a 16-bit color palette instead.

Problem Program window or dialog box doesn't appear on screen

Cause Another window or dialog box may be covering the window or dialog box you want to see.

Solution Move, close, or minimize any window or dialog box that may be covering the window or dialog box you want to see.

Cause If you're using multi-display mode, the program window or dialog box may be in a display or on a monitor that's unusable. (For example, your monitor may not be properly connected or configured.)

Solution Make sure all the displays and monitors you want to use are usable. For more information, see other troubleshooting items in this guide.


Cause The program window or dialog box may be somewhere off-screen.


Solution If the program window you want to see is named on the Windows taskbar, right-click it and select **Maximize**. (If you click **Restore** the program window goes back to its previous position. To fix this problem, see the other solutions.)

Solution Manually move the program window or dialog box:

- 1 Press [Alt]+[Space].
- 2 If you see a pop-up menu, click **Move**. If you don't see a pop-up menu, press [M] (for **Move**).
- 3 Press one of the arrow keys once and move your mouse pointer to where you want the window or dialog box to appear, then click that spot on your Windows desktop. The program window or dialog box should appear where you clicked.

Solution Windows 2000/XP/Vista –

- 1 Click the Matrox PowerDesk icon () on your Windows taskbar, then click **Desktop Management**.

To see the PowerDesk icon, you may need to click the **Show hidden icons** button () on your Windows taskbar.

- 2 Enable one or more of the following features:
 - **Open program windows**
 - **Center dialog boxes and message boxes**
- 3 Choose where you want the program window or dialog box to appear.

For more information, see Matrox PowerDesk help.

Product information

Specifications

	Matrox Veos
Key features	Multi-channel support, configurable RS-232 link, landscape or portrait monitor orientation, unlimited iterations of Display and Repeater units
Monitor support	Digital or analog
Dimensions	6.63" (W) x 5.19" (D) x 1.25" (H)
Coaxial cable type supported*	Belden 1694A or equivalent SMPTE 424M compliant 75 Ohm coaxial cable (bare copper center conductor, high velocity dielectric insulation, foil/braid shielding)
Twisted pair cable type supported	CAT5 or CAT6
Connector type supported	BNC
Power supply	Master, Display: external 5 VDC, 3A Repeater: PoE
DVI-to-HD15 adapters (included only with Display unit)	2
RS-232 capability	Unidirectional from Master to Display
Preset display resolutions†	1920 × 1080 1360 × 768 1280 × 768 1280 × 720
Maximum distance per unit	100 m (328 ft)
MTBF	88,000 Hrs @ 30°C
Certifications‡	Class A: FCC, CE, ACMA, VCCI

* For a list of supported cables, contact your Matrox representative.

† Listed are the manufacturer's default settings. Additional display resolutions are available through Matrox PowerDesk software. For more information, see Matrox PowerDesk help.

‡ For more information, see [page 30](#).

Notes

- Matrox PowerDesk software supports only Windows 2000, Windows XP, Windows XP Professional x64, and Windows Vista.

- The display resolutions and refresh rates available depend on your monitor and software monitor settings. For more information on the capabilities of your monitor, see your monitor documentation.
- If you're using multiple monitors, your Matrox hardware uses the same display resolution and monitor settings for all your monitors. The display resolution and monitor settings (such as refresh rate) will be the ones selected in Matrox PowerDesk multi-display settings.
- While using some graphics hardware and software, certain limitations may apply. For more information on the capabilities of your graphics hardware, see its documentation.
- Some older monitor models may not be supported by your Matrox Veos product. For more information, contact your Matrox representative.
- To get the most out of your Matrox product, we recommend you use identical monitors (that is, monitors that support the same settings such as display resolution, refresh rate, and aspect ratio). For more information on the settings your monitor supports, see your monitor documentation.
- While adjusting your image quality or changing your content channels, your displays may become blank for a few seconds.
- While using the display rotation feature, all your displays must use the same orientation.
- While an unsupported display mode is selected, your displays may be unusable.



Customer support

Matrox Web

Matrox is on the Internet with a World Wide Web (WWW) site. Our Web site has product literature, press releases, technical material, a sales office list, trade show information, and other relevant material.

- Visit the Matrox Graphics Web site at www.matrox.com/graphics.
- E-mail questions or comments regarding the site to webmaster@matrox.com.

If you have a problem

Matrox values your business and offers preferred support for your Matrox product. For product support, contact your Matrox representative or visit our technical support Web site at www.matrox.com/graphics/support.

Information we need



Please give a complete description of the problem, and include:

- Matrox product serial number, model number, revision number, display mode (display resolution and refresh rate), firmware version, and PowerDesk version.
- Graphics hardware model, processor speed, and amount of memory.
- Operating system, version, and service pack.
- Brand and model of any other graphics cards and devices installed on your system.
- Monitor brand and model name.

Where to get information

For information on PowerDesk software:

Windows 2000/XP/Vista –

- 1 Click the PowerDesk icon () on your Windows taskbar to access the main PowerDesk menu. To see the PowerDesk icon in Windows XP/Vista, you may need to click the **Show hidden icons** button () on your Windows taskbar.
- 2 Click **About**.

For system information:

- Windows 2000 – Right-click the **My Computer** icon on your Windows desktop background, then click **Properties**.
- Windows 2000/XP – Click **Start** → **Programs** → **Accessories** → **System Tools** → **System Information**.
- Windows XP – Click **Start** → **Settings*** → **Control Panel** → **Performance and Maintenance*** → **System** (double-click*). (* Depending on your configuration of Windows, this part of the step may not be necessary.)
- Windows Vista – Click **Start** → **Settings*** → **Control Panel** → **System and Maintenance** → **System** (double-click*). (* Depending on your configuration of Windows, this part of the step may not be necessary.)

Warranty

A. Limited Warranty Statement

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 - e. improper installation, misapplication or negligence;
 - f. operation outside the product's environmental specifications;
 - g. improper site preparation or maintenance;
 - h. software;
 - i. other causes that do not relate to a product defect;
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D. Obtaining Service

1. Verify that your Matrox product was installed and configured according to the information in its accompanying documentation.
2. Read the "Troubleshooting" information included with the Matrox product to see if you can solve the problem yourself.
3. If you are still experiencing difficulties, please contact your dealer where you purchased your Matrox product.
4. If you must return a Matrox product, leave the configuration as it was when you were using it, and leave all identification stickers on the product. Pack the product in its original box and return to your Matrox dealer where the product was purchased, together with your proof of purchase. Your Matrox dealer will return the product for you. Alternatively, if this first option is unavailable to you, you may contact the Matrox Technical Support group who will issue an Return Merchandise Authorization (RMA) number, upon receipt of adequate proof of purchase, and inform you of shipping instructions. DO NOT RETURN THE PRODUCT TO MATROX WITHOUT MATROX'S RMA NUMBER AND EXPRESS AUTHORIZATION.

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Thank you for choosing Matrox

Please register online (<http://www.matrox.com/graphics/registration>) to be eligible for customer support, new product announcements, and information on special offers and upcoming events.

USA

FCC Compliance Statement

Remark for the Matrox hardware products supported by this guide This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING Changes or modifications to this unit not expressly approved by the party responsible for the compliance could void the user's authority to operate this equipment. The use of shielded cables for connection of the monitor to the card is required to meet FCC requirements.

CANADA

(English) Industry Canada Compliance Statement

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(Français) Conformité avec les exigences du ministère de l'Industrie Canada

Remarque sur les produits matériels Matrox couverts par ce guide Ce present appareil numérique n'émet aucun bruit radioélectrique dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par Industrie Canada.

JAPAN

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EUROPE

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(Deutsch) Information für europäische Anwender – Konformitätserklärung

Anmerkung für die Matrox Hardware-Produktunterstützung durch dieses Handbuch Diese Geräte entsprechen EC Direktive 89/336/EEC für ein digitales Gerät Klasse A. Sie wurden getestet und entsprechen demnach EN55022/CISPR22 und EN55024/CISPR24. In einer Wohnumgebung können diese Produkte Funkinterferenzen erzeugen, und der Benutzer kann genötigt sein, entsprechende Maßnahmen zu ergreifen. Um EG-Anforderungen zu entsprechen, müssen zum Anschließen des Monitors und anderer Peripheriegeräte an die Karte abgeschirmte Kabel verwendet werden. Diese Produkt wurden in einem typischen, der Klasse A entsprechenden, Host-System getestet. Es wird davon ausgegangen, daß diese Produkte auch in jedem Klasse A entsprechenden System entsprechend funktionieren.

(Italiano) Informazioni per gli utenti europei – Dichiarazione di conformità

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(Español) Información para usuarios europeos – Declaración de conformidad

Observación referente a los productos de hardware de Matrox apoyados por este manual Estos dispositivos cumplen con la directiva de la CE 89/336/EEC para dispositivos digitales de Clase A. Dichos dispositivos han sido sometidos a prueba y se ha comprobado que cumplen con las normas EN55022/CISPR22 y EN55024/CISPR24. En entornos residenciales, estos productos pueden causar interferencias en las comunicaciones por radio; en tal caso el usuario deberá adoptar las medidas adecuadas. Para satisfacer las disposiciones de la CE, deberán utilizarse cables apantallados para conectar el monitor y demás periféricos a la tarjeta. Estos productos han sido sometidos a prueba en un típico sistema anfitrión que responde a los requisitos de la clase A. Se supone que estos productos cumplirán también con las normas en cualquier sistema que responda a los requisitos de la clase A.

EUROPE

(English) European user's information – Directive on Waste Electrical and Electronic Equipment (WEEE)

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(Français) Informations aux utilisateurs Européens – Règlementation des déchets d'équipements électriques et électroniques (DEEE)

Se référer au site Web de Matrox (www.matrox.com/environment/weee) pour l'information concernant le recyclage.

(Deutsch) Information für europäische Anwender – Europäische Regelungen zu Elektro- und Elektronikaltgeräten (WEEE)

Bitte wenden Sie sich an der Matrox-Website (www.matrox.com/environment/weee) für Recycling-Informationen.

(Italiano) Informazioni per gli utenti europei – Direttiva sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE)

Si prega di riferirsi al sito Web Matrox (www.matrox.com/environment/weee) per le informazioni di riciclaggio.

France Avertissement sur l'épilepsie

À lire avant toute utilisation d'un jeu vidéo par vous-même ou votre enfant Certaines personnes sont susceptibles de faire des crises d'épilepsie ou d'avoir des pertes de conscience à la vue de certains types de lumières clignotantes ou d'éléments fréquents dans notre environnement quotidien. Ces personnes s'exposent à des crises lorsqu'elles regardent certaines images télévisées ou qu'elles jouent à certains jeux vidéo. Ces phénomènes peuvent apparaître alors même que le sujet n'a pas d'antécédent médical ou n'a jamais été confronté à une crise d'épilepsie.

Si vous-même ou un membre de votre famille avez déjà présenté des symptômes liés à l'épilepsie (crise ou perte de conscience) en présence de stimulations lumineuses, veuillez consulter votre médecin avant toute utilisation.

Nous conseillons aux parents d'être attentifs à leurs enfants lorsqu'ils jouent avec des jeux vidéo. Si vous-même ou votre enfant présentez un des symptômes suivants: vertige, trouble de la vision, contraction des yeux ou des muscles, perte de conscience, trouble de l'orientation, mouvement involontaire ou convulsion, veuillez immédiatement cesser de jouer et consultez un médecin.

Précautions à prendre dans tous les cas pour l'utilisation d'un jeu vidéo

- Ne vous tenez pas trop près de l'écran.
- Jouez à bonne distance de l'écran de TV et aussi loin que le permet le cordon de raccordement.
- Utilisez de préférence les jeux de vidéo sur un écran de petite taille.
- Évitez de jouer si vous êtes fatigué ou si vous manquez de sommeil.
- Assurez-vous que vous jouez dans une pièce bien éclairée.
- En cours d'utilisation, faites des pauses de dix à quinze minutes toutes les heures.

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