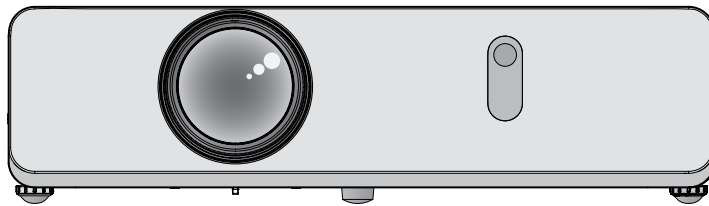


Operating Instructions Functional Manual

LCD Projector Commercial Use

Model No. **PT-VW355N**
PT-VX425N



Thank you for purchasing this Panasonic Product.

- Before operating this product, please read the instructions carefully, and save this manual for future use.
- Before using your projector, be sure to read "Read this first!" (➔ pages 2 to 12).

Read this first!

WARNING: THIS APPARATUS MUST BE EARTHED.

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.
This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.
The equipment is not intended for used at a video workstation in compliance BildscharbV.
The sound pressure level at the operator position is equal or less than 70 dB (A) according to ISO 7779.

WARNING:

1. Remove the plug from the mains socket when this unit is not in use for a prolonged period of time.
2. To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
3. Do not remove the earthing pin on the mains plug. This apparatus is equipped with a three prong earthing type mains plug. This plug will only fit an earthing-type mains socket. This is a safety feature. If you are unable to insert the plug into the mains socket, contact an electrician. Do not defeat the purpose of the earthing plug.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:



TURN THE POWER OFF AND DISCONNECT THE POWER PLUG FROM THE WALL OUTLET BEFORE REPLACING THE LAMP UNIT.

CAUTION: To assure continued compliance, follow the attached installation instructions. This includes using the provided power cord and shielded interface cables when connecting to computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

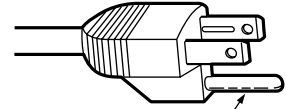
This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment.

Directive 2009/125/EC

Importer's name and address within the European Union
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

CAUTION (North/Middle/South America)

CAUTION: This equipment is equipped with a three-pin grounding-type power plug. Do not remove the grounding pin on the power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the grounding plug.



Do not remove

FCC NOTICE (USA)

Declaration of Conformity

Model Number: PT-VW355N, PT-VX425N
Trade Name: Panasonic
Responsible Party: Panasonic Corporation of North America
Address: Two Riverfront Plaza, Newark, NJ 07102-5490
General Contact: <http://www.panasonic.com/support>
Projector Contact: <http://www.panasonic.net/avc/projector>

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. To assure continued compliance, follow the attached installation instructions and do not make any unauthorized modifications.

CAUTION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/BD technician for help.

Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

The user may find the booklet "Something About Interference" available from FCC local regional offices helpful.

FCC Warning:

To assure continued FCC emission limit compliance, follow the attached installation instructions. This includes using the provided power cord and shielded interface cables when connecting to computer or peripheral devices. Also, any unauthorized changes or modifications to this equipment could void the user's authority to operate this device.

FCC NOTICE (USA AND CANADA)

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of this device.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment has been approved for mobile operation and requires minimum 20 cm spacing be provided between antennas and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC and IC require this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices.

There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects.

Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

Wireless LAN adaptor has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.

WARNING:

- Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment, ANSI/NFPA 75.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring.
- For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Product Identification Marking is located on the bottom of the Wireless LAN Adaptor.

Federal Communication Commission (FCC) / IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999/IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C/IEEE 1528. This equipment should be installed and operated with minimum distance 0.5 cm between the radiator & your body.

CAUTION:

Be aware of the following limits before using the Wireless LAN Module.

- To use the Wireless LAN Module, an access point needs to be obtained.
- Do not use the Wireless LAN Module to connect to any wireless network (SSID*) for which you do not have usage rights. Such networks may be listed as a result of searches. However, using them may be regarded as illegal access.
*SSID is a name for identifying a particular wireless network for transmission.
- Do not subject the Wireless LAN Module to high temperatures, direct sunlight or moisture.
- Do not bend, or subject the Wireless LAN Module to strong impacts.
- Do not disassemble or alter the Wireless LAN Module in any way.
- Do not attempt to install the Wireless LAN Module in any incompatible device.
- Do not remove the Wireless LAN Module from the host product during operations.
- Data transmitted and received over radio waves may be intercepted and monitored.
- To avoid malfunctions caused by radio wave interface, keep the host product away from the devices such as other wireless LAN devices, microwaves and the devices that use 2.4 GHz and 5 GHz signals when using the Wireless LAN Module.
- When noises occur due to the static electricity, etc., the projector might stop operating for the protection of the devices. In this case, turn the projector Off and disconnect the power plug from the wall outlet, then turn it On again.
- Depending on the area, this Wireless LAN Module may not be available.

NOTIFICATION (Canada)

This class B digital apparatus complies with Canadian ICES-003.

Notice (USA only):

- This product has a High Intensity Discharge (HID) lamp that contains mercury. Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website: <http://www.panasonic.com/environmental> or call 1-888-769-0149.

Notice (Singapore only):

- Complies with IDA Standards ID : DB102345

Notice (UAE only):

- This equipment has been registered with the Telecommunications Regulatory Authority for use in the UAE.
TRA
REGISTERED No: ER0119239/13
DEALER No: DA0081667/12

IMPORTANT: THE MOULDED PLUG (U.K. only)

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover, the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from an Authorised Service Center.

If the fitted moulded plug is unsuitable for the mains socket in your home, then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

| | |
|-----------------------|---------|
| Green - and - Yellow: | Earth |
| Blue: | Neutral |
| Brown: | Live |

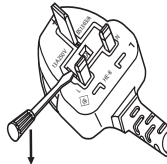
As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured GREEN - AND - YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured GREEN or GREEN - AND - YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

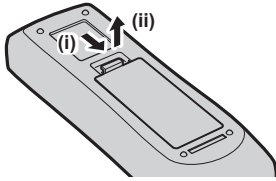
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.

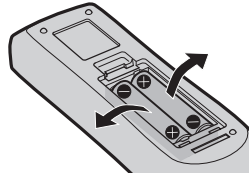


To remove the battery

1. Press the guide and lift the cover.

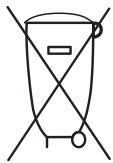


2. Remove the batteries.



Brazil Only Brasil Apenas

Manuseio de baterias usadas

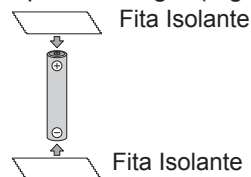


BRASIL

Após o uso, as pilhas e /ou baterias deverão ser entregues ao estabelecimento comercial ou rede de assistência técnica autorizada.

Cobrir os terminais positivo (+) e negativo (-) com uma fita isolante adesiva, antes de depositar numa caixa destinada para o recolhimento. O contato entre partes metálicas pode causar vazamentos, gerar calor, romper a blindagem e produzir fogo. (Fig. 1)

Fig. 1
Como isolar os terminais

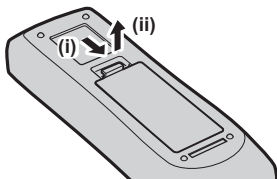


Não desmonte, não remova o invólucro, nem amasse a bateria. O gás liberado pela bateria pode irritar a garganta, danificar o lacre do invólucro ou o vazamento provocar calor, ruptura da blindagem e produzir fogo devido ao curto circuito dos terminais. Não incinere nem aqueça as baterias, elas não podem ficar expostas a temperaturas superiores a 100 °C (212 °F). O gás liberado pela bateria pode irritar a garganta, danificar o lacre do invólucro ou o vazamento provocar calor, ruptura da blindagem e produzir fogo devido ao curto circuito dos terminais provocado internamente.

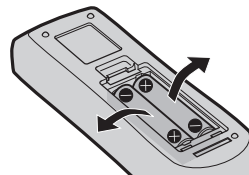
Evite o contato com o líquido que vazar das baterias. Caso isto ocorra, lave bem a parte afetada com bastante água. Caso haja irritação, consulte um médico.

Remoção das baterias

1. Pressione a guia e levante a tampa.



2. Remova as baterias.



WARNING:

■ POWER

The wall outlet shall be installed near the equipment and shall be easily accessible when problems occur. If the following problems occur, disconnect the power plug from the wall outlet immediately.

Continued use of the projector in these conditions will result in fire or electric shock.

- If foreign objects or water get inside the projector, disconnect the power plug from the wall outlet.
- If the projector is dropped or the cabinet is broken, disconnect the power plug from the wall outlet.
- If you notice smoke, strange smells or noise coming from the projector, disconnect the power plug from the wall outlet.
- You have to disconnect the power plug from the wall outlet to cut off the power supply.

Please contact an Authorized Service Center for repairs, and do not attempt to repair the projector yourself.

During a thunderstorm, do not touch the projector or the cable.

Electric shocks can result.

Do not do anything that might damage the power cord or the power plug.

If the power cord is used while damaged, electric shocks, short-circuits or fire will result.

- Do not damage the power cord, make any modifications to it, place it near any hot objects, bend it excessively, twist it, pull it, place heavy objects on top of it or wrap it into a bundle.

Ask an Authorized Service Center to carry out any repairs to the power cord that might be necessary.

Completely insert the power plug into the wall outlet and the power connector into the projector terminal.

If the plug is not inserted correctly, electric shocks or overheating will result.

- Do not use plugs which are damaged or wall outlets which are coming loose from the wall.

Do not use anything other than the provided power cord.

Failure to observe this will result in fire or electric shocks. Please note that if you do not use the provided power cord to ground the device on the side of the outlet, this may result in electric shocks.

Clean the power plug regularly to prevent it from becoming covered in dust.

Failure to observe this will cause a fire.

- If dust builds up on the power plug, the resulting humidity can damage the insulation.
- If not using the projector for an extended period of time, pull the power plug out from the wall outlet.

Pull the power plug out from the wall outlet and wipe it with a dry cloth regularly.

Do not handle the power plug and power connector with wet hands.

Failure to observe this will result in electric shocks.

Do not overload the wall outlet.

If the power supply is overloaded (ex., by using too many adapters), overheating may occur and fire will result.

■ ON USE/INSTALLATION

Do not place the projector on soft materials such as carpets or sponge mats.

Doing so will cause the projector to overheat, which can cause burns, fire or damage to the projector.

Do not set up the projector in humid or dusty places or in places where the projector may come into contact with oily smoke or steam, ex. a bathroom.

Using the projector under such conditions will result in fire, electric shocks or components deterioration. Components deterioration (such as ceiling mount brackets) may cause the projector which is mounted on the ceiling to fall down.

Do not install this projector in a place which is not strong enough to take the full weight of the projector or on top of a surface which is sloped or unstable.

Failure to observe this will cause projector to fall down or tip over the projector, and severe injury or damage could result.

Installation work (such as ceiling mount bracket) should only be carried out by a qualified technician.

If installation is not carried out and secured correctly, it can cause injury or accidents, such as electric shocks.

- Be sure to use the wire provided with the ceiling mount bracket as an extra safety measure to prevent the projector from falling down. (Install in a different location to the ceiling mount bracket.)

Do not cover the air intake/exhaust ports.

Doing so will cause the projector to overheat, which can cause fire or damage to the projector.

- Do not place the projector in narrow, badly ventilated places.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air intake port.
- Provide at least 1 m (40") of space between any walls or objects and the exhaust port, and at least 50 cm (20") of space between any walls or objects and the intake port.

WARNING:

Do not place your hands or other objects close to the air exhaust port.

Doing so will cause burns or damage your hands or other objects.

- Heated air comes out of the air exhaust port. Do not place your hands or face, or objects which cannot withstand heat close to this port.

Do not look at or place your skin into the lights emitted from the lens while the projector is being used.

Doing so can cause burns or loss of sight.

- Strong light is emitted from the projector's lens. Do not look at or place your hands directly into this light.
- Be especially careful not to let young children look into the lens. In addition, turn off the power and disconnect the power plug when you are away from the projector.

Never attempt to remodel or disassemble the projector.

High voltages can cause fire or electric shocks.

- For any inspection, adjustment and repair work, please contact an Authorized Service Center.

Do not allow metal objects, flammable objects, or liquids to enter inside of the projector. Do not allow the projector to get wet.

Doing so may cause short circuits or overheating, and result in fire, electric shock, or malfunction of the projector.

- Do not place containers of liquid or metal objects near the projector.
- If liquid enters inside of the projector, consult your dealer.
- Particular attention must be paid to children.

Use the ceiling mount bracket specified by Panasonic.

Using the ceiling mount bracket other than the specified one will result in falling accidents.

- Attach the supplied safety cable to the ceiling mount bracket to prevent the projector from falling down.

■ ACCESSORIES

Do not use or handle the batteries improperly, and refer to the following.

Failure to observe this will cause burns, batteries to leak, overheat, explode or catch fire.

- Do not use unspecified batteries.
- Do not use chargeable batteries.
- Do not disassemble dry cell batteries.
- Do not heat the batteries or place them into water or fire.
- Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.
- Do not store or carry batteries together with metallic objects.
- Store the batteries in a plastic bag and keep them away from metallic objects.
- Make sure the polarities (+ and -) are correct when inserting the batteries.
- Do not use a new battery together with an old battery or mix different types of batteries.
- Do not use batteries with the outer cover peeling away or removed.

Do not allow children to reach the batteries.

Accidentally swallowing them can cause physical harm.

- If swallowed, seek medical advice immediately.

If the battery fluid leaks, do not touch it with bare hands, and take the following measures if necessary.

- Battery fluid on your skin or clothing could result in skin inflammation or injury.
Rinse with clean water and seek medical advice immediately.
- Battery fluid coming in contact with your eyes could result in loss of sight.
In this case, do not rub your eyes. Rinse with clean water and seek medical advice immediately.

Do not disassemble the lamp unit.

If the lamp breaks, it could cause injury.

Lamp replacement

The lamp has high internal pressure. If improperly handled, an explosion and severe injury or accidents will result.

- The lamp can easily explode if struck against hard objects or dropped.
- Before replacing the lamp unit, be sure to turn the power off and to disconnect the power plug from the wall outlet.
Electric shocks or explosions can result if this is not done.
- When replacing the lamp unit, turn the power off and allow the lamp to cool for at least 1 hour before handling it otherwise it can cause burns.

Do not use the supplied power cord with devices other than this projector.

- Using the supplied power cord with devices other than this projector may cause short circuits or overheating, and result in electric shock or fire.

Remove the depleted batteries from the remote control promptly.

- Leaving them in the unit may result in fluid leakage, overheating, or explosion of the batteries.

CAUTION:

■ POWER

When disconnecting the power cord, be sure to hold the power plug and power connector.

If the power cord itself is pulled, the lead will become damaged, and fire, short-circuits or serious electric shocks will result.

When not using the projector for an extended period of time, disconnect the power plug from the wall outlet.

Failure to do so may result in fire or electric shock.

Disconnect the power plug from the wall outlet before carrying out any cleaning and replacing the unit.

Failure to do so may result in electric shock.

■ ON USE/INSTALLATION

Do not place heavy objects on top of the projector.

Failure to observe this will cause the projector to become unbalanced and fall, which could result in damage or injury. The projector will be damaged or deformed.

Do not put your weight on this projector.

You could fall or the projector could break, and injury will result.

- Be especially careful not to let young children stand or sit on the projector.

Do not place the projector in extremely hot locations.

Doing so will cause the outer casing or internal components to deteriorate, or result in fire.

- Take particular care in locations exposed to direct sunlight or near stoves.

Do not place the projector where it may be affected by salt or corrosive gas.

Doing so may cause the projector to become faulty due to corrosion.

Do not place objects in front of the lens while the projector is being used.

Doing so can cause fire or damage to the object and can cause the projector to malfunction.

- Extremely strong light is emitted from the projector's lens.

Do not stand in front of the lens while the projector is being used.

Doing so can cause damage and burns to clothing.

- Extremely strong light is emitted from the projector's lens.

Always disconnect all cables before moving the projector.

Moving the projector with cables still attached can damage the cables, which will cause fire or electric shocks to occur.

When mounting the projector on the ceiling, keep mounting screws and power cord from contact with metal parts inside the ceiling.

Contact with metal parts inside the ceiling can cause electric shocks.

Never plug headphones and earphones into <VARIABLE AUDIO OUT> terminal.

Excessive sound pressure from earphones and headphones can cause hearing loss.

■ ACCESSORIES

Do not use the old lamp unit.

If used it could cause lamp explosion.

If the lamp has broken, ventilate the room immediately. Do not touch or bring your face close to the broken pieces.

Failure to observe this will cause the user to absorb the gas which was released when the lamp broke and which contains nearly the same amount of mercury as fluorescent lamp, and the broken pieces will cause injury.

- If you believe that you have absorbed the gas or that the gas has got into your eyes or mouth, seek medical advice immediately.
- Ask your dealer about replacing the lamp unit and check the inside of the projector.

When not using the projector for an extended period of time, remove the batteries from the remote control.

Failure to observe this will cause the batteries to leak, overheat, catch fire or explode, which may result in fire or contamination of surrounding area.

■ MAINTENANCE

Ask your dealer about cleaning inside the projector once a year.

Continuous use while dust is accumulated inside the projector may result in fire.

- For cleaning fee, ask your dealer.

Declaration of Conformity



Declaration of Conformity (DoC)

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Customers can download a copy of the original DoC for this product from our DoC server: <http://www.ptc.panasonic.de>

Contact in the EU: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

This product is intended to be used in the following countries.

Austria, Belgium, Bulgaria, Czech, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovenia, Slovak, Spain, Sweden, Switzerland, UK & Croatia



Konformitätserklärung (KE)

Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.

Kunden können eine Kopie der Original-KE für dieses Produkt von unserem KE-Server herunterladen: <http://www.ptc.panasonic.de>

Kontaktadresse in der EG: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Dieses Produkt ist für den Einsatz in den folgenden Ländern vorgesehen.

Österreich, Belgien, Bulgarien, Tschechische Republik, Zypern, Dänemark, Estland, Finnland, Frankreich, Deutschland, Griechenland, Ungarn, Island, Irland, Italien, Lettland, Litauen, Luxemburg, Malta, Niederlande, Norwegen, Polen, Portugal, Rumänien, Slowenien, Slowakei, Spanien, Schweden, Schweiz, Großbritannien und Kroatie



Déclaration de Conformité (DC)

Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.

Les clients peuvent télécharger une copie de la DC originale pour ce produit à partir de notre serveur DC: <http://www.ptc.panasonic.de>

Coordonnées dans l'UE : Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Ce produit est conçu pour l'utilisation dans les pays suivants.

Autriche, Belgique, Bulgarie, République Tchèque, Chypre, Danemark, Estonie, Finlande, France, Allemagne, Grèce, Hongrie, Islande, Irlande, Italie, Lettonie, Lituanie, Luxembourg, Malte, Pays-Bas, Norvège, Pologne, Portugal, Roumanie, Slovénie, Slovaquie, Espagne, Suède, Suisse, Royaume-Uni et Croatie



Declaración de conformidad (DC)

Este equipo cumple con los requisitos esenciales así como con otras disposiciones de la Directiva 1999/5/CE.

El cliente puede descargar una copia de la DC original de este producto desde nuestro servidor DC: <http://www.ptc.panasonic.de>

Contacto en la U.E.: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Este producto ha sido desarrollado para el uso en los siguientes países.

Austria, Bélgica, Bulgaria, República Checa, Chipre, Dinamarca, Estonia, Finlandia, Francia, Alemania, Grecia, Hungría, Islandia, Irlanda, Italia, Letonia, Lituania, Luxemburgo, Malta, Holanda, Noruega, Polonia, Portugal, Rumania, Eslovenia, Eslovaquia, España, Suecia, Suiza, el Reino Unido y Croacia



Dichiarazione di conformità (DoC)

Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.

I clienti possono scaricare la copia del DoC originale per questo prodotto dal nostro server DoC: <http://www.ptc.panasonic.de>

Contatto nella EU: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

I prodotti sono stati prodotti per l'uso nei seguenti paesi.

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If you wish to ask any questions as to the software, please contact (sav.pj.gpl.pavc@ml.jp.panasonic.com) by email.

■ Illustrations in these operating instructions

- Note that illustrations of the projector and screens may differ from the ones you actually see.

■ Page references

- Reference pages in this manual are indicated as: (➡ page 00).

■ Term

- In this manual, the “Wireless remote control unit” accessory is referred to as the “Remote control”.

Features of the Projector

High Contrast

- ▶ A high contrast of 12 000:1 is achieved by the unique optical system.

Easy Setting Function

- ▶ This projector is installed with a camera, [FOCUS ASSIST], [SCREEN FIT] and [COLORBOARD] will be adjusted in order when you press the <EASY SETTING> button on the control panel.
- ▶ The position of image will be corrected automatically when you press the <AUTO SETUP> button on the remote control.

Wireless Projection Function

- ▶ This function allows you to output video and audio from multiple computers by using the application software "Wireless Manager ME6.3".
- ▶ By using the MIRRORING function, the images displayed on the Intel® WiDi / Intel® Pro WiDi / Miracast compatible device can be projected through the wireless LAN connection.

Useful Functions for Presentations

- ▶ Memory viewer function allows you to project video and still images which are stored in USB memory without using computer.
- ▶ Connect the projector to a computer with a USB cable, the USB display function of the application software "Wireless Manager ME6.3" allows you to output video and audio.

Quick Steps

For details, see the corresponding pages.

1. **Set up your projector.**
(⇒ page 32)



2. **Connect with other devices.**
(⇒ page 35)



3. **Connect the power cord.**
(⇒ page 41)



4. **Power on.**
(⇒ page 42)



5. **Make initial settings.**
(⇒ page 42)

- Take this step when you power on for the first time after purchasing the projector.



6. **Select the input signal.**
(⇒ page 46)



7. **Adjust the image.**
(⇒ page 46)

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Chapter 1 Preparation

This chapter describes things you need to know or check before using the projector.

Precautions for use

Cautions when transporting

- When transporting the projector, hold it securely by its bottom and avoid excessive vibration and impacts. Doing so may damage the internal parts and result in malfunctions.
- Do not transport the projector with the adjustable feet extended. Doing so may damage the adjustable feet.

Cautions when installing

■ Do not set up the projector outdoors.

- The projector is designed for indoor use only.

■ Do not use under the following conditions.

- Places where vibration and impacts occur such as in a car or vehicle: Doing so may damage the internal parts and result in malfunctions.
- Locations near the sea or areas affected by corrosive gas: Corrosion may damage internal components or cause the projector to malfunction.
- Near the exhaust of an air conditioner: Depending on the conditions of use, the screen may fluctuate in rare cases due to the heated air from the air exhaust port or the hot or cooled air. Make sure that the exhaust from the projector or other equipment, or the air from the air conditioner does not blow toward the front of the projector.
- Places with sharp temperature fluctuations such as near lights (studio lamp): Doing so may shorten the life of the lamp, or result in deformation of the outer case due to heat, which may cause malfunctions.
The operating environment temperature of the projector should be between 0 °C (32 °F) and 40 °C (104 °F)^{*1} when using it at elevations lower than 1 400 m (4 593') above sea level, and between 0 °C (32 °F) and 30 °C (86 °F) when using it at high altitudes (between 1 400 m (4 593') and 2 700 m (8 858') above sea level).

*1 When the operating environment temperature of the projector is between 35 °C (95°F) and 40 °C (104 °F), the lamp mode will change to [ECO] automatically.

- Near high-voltage power lines or near motors: Doing so may interfere with the operation of the projector.

■ Be sure to ask a specialized technician when installing the product to a ceiling.

This requires an optional ceiling mount bracket. Be sure to use the Projector Mount Bracket together with the ceiling mount bracket for high ceilings or low ceilings.

Model No.:

- ① ET-PKL100H (for high ceilings), ET-PKV400B (Projector Mount Bracket)
- ② ET-PKL100S (for low ceilings), ET-PKV400B (Projector Mount Bracket)

■ Focus adjustment

The projection lens is thermally affected by the light from the light source, making the focus unstable in the period just after switching on the power. It is recommended that the images are projected continuously for at least 30 minutes before the focus is adjusted.

■ When using the projector in the elevation of below 1 400 m (4 593'), make sure [HIGH ALTITUDE MODE] is set to [OFF].

Failure to do so may shorten the life of the internal parts and result in malfunctions.

■ When using the projector in the elevation of above 1 400 m (4 593') and below 2 000 m (6 562'), make sure [HIGH ALTITUDE MODE] is set to [HIGH1].

Failure to do so may shorten the life of the internal parts and result in malfunctions.

■ When using the projector in the elevation of above 2 000 m (6 562') and below 2 700 m (8 858'), make sure [HIGH ALTITUDE MODE] is set to [HIGH2].

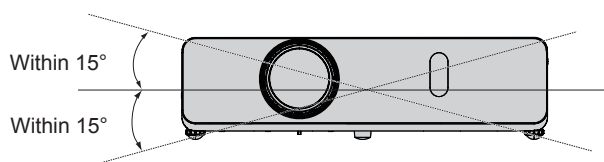
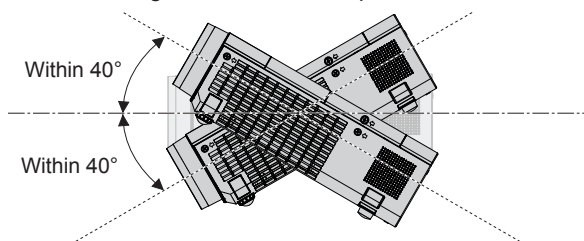
Failure to do so may shorten the life of the internal parts and result in malfunctions.

■ Do not install the projector at elevations of 2 700 m (8 858') or higher above sea level.

Failure to do so may shorten the life of the internal parts and result in malfunctions.

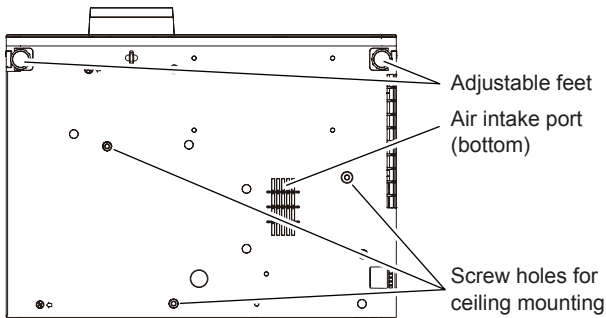
■ Do not tilt the projector or place it on its side.

Do not tilt the projector body more than approximately ±40 degrees vertically or ±15 degrees horizontally. Over tilting may result in shortening the life of the components.

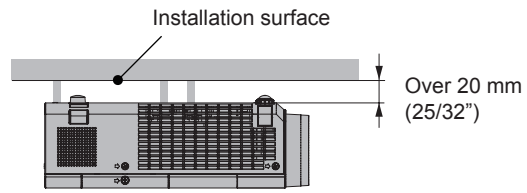


■ **Cautions when setting the projectors**

- If you want to use the projector other than the way of setting on the desk/floor with the adjustable feet or mounting on the ceiling, use the three screw holes for ceiling mounting (as shown below) to fix the projector.
(Screw: M4; Depth of the screw hole: 8 mm (5/16"); Torque: M4 1.25 ± 0.2 N·m)
In addition, always keep a gap of more than 20 mm (25/32") between the bottom of the projector and installation surface. Make sure that there is no clearance of at least 20 mm (25/32") between the screw holes for ceiling mounting and the installation surface by inserting supports (metallic) between them.

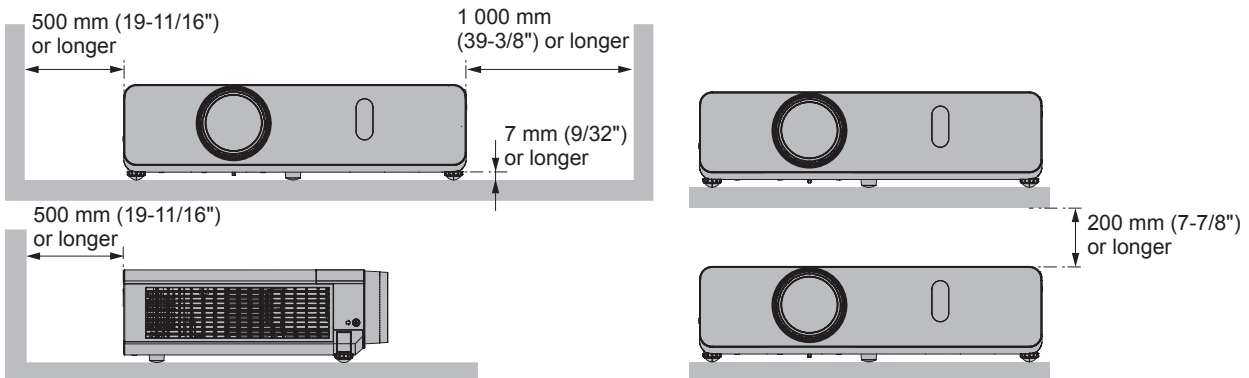
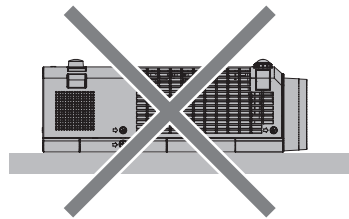
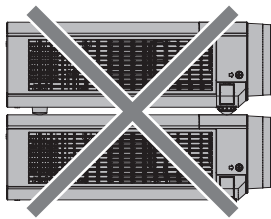


The positions of adjustable feet and the screw holes for ceiling mounting



- Make sure the air flow into the air intake port (bottom), failure to do so may cause the projector cannot work.

- Do not stack the projectors.
- Do not use the projector supporting it by the top.
- Do not block the ventilation ports (intake and exhaust) of the projector.
- Avoid heating and cooling air from the air conditioning system directly blow to the ventilation ports (intake and exhaust) of the projector.



- Do not install the projector in a confined space.
When placing the projector in a confined space, a ventilation and/or air conditioning system is required. Exhaust heat may accumulate when the ventilation is not enough, triggering the protection circuit of the projector.

Security

Take safety measures against following incidents.

- Personal information being leaked via this product.
- Unauthorized operation of this product by a malicious third party.
- Interfering or stopping of this product by a malicious third party.

Security instruction (▶ pages 85, 92, 110)

- Make your password as difficult to guess as possible.
- Change your password periodically.
- Panasonic or its affiliate company never inquires a password directly to a customer. Do not tell your password in case you receive such an inquiry.
- The connecting network must be secured by firewall or others.
- Set a password for web control and restrict the users who can log in.

Disposal

To dispose of the product, ask your local authorities or dealer for correct methods of disposal.

The lamp contains mercury. When disposing of used lamp units, contact your local authorities or dealer for correct methods of disposal.

Cautions on use

■ To get a good picture quality

- In order to view a beautiful image in higher contrast, prepare an appropriate environment. Draw curtains or blinds over windows and turn off any lights near the screen to prevent outside light or light from indoor lamp from shining onto the screen.

■ Do not touch the surface of the projector lens with your bare hands.

If the surface of the projection lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen.

Attach the supplied lens cap to the projection lens when you do not use the projector.

■ LCD panel

The LCD panel is precision-made. Note that in rare cases, pixels of high precision could be missing or always lit. Note that such phenomena do not indicate malfunction. If still images are projected for a long time, a residual image may remain on the LCD panel. Note that the residual image may not disappear.

■ Optical parts

When the operating environment temperature is high or in environments where lots of dust, cigarette smoke, etc. is present, the replacement cycle of the LCD panel, polarizing plate and other optical parts may be shorter even if used for less than one year. Consult your dealer for details.

■ Lamp

The luminous source of the projector is a mercury lamp with high internal pressure.

A high-pressure mercury lamp has the following characteristics.

- The luminance of the lamp will decrease by duration of usage.
- The lamp may burst with a loud sound or have its service life shortened because of shock, chipping, or degradation due to cumulative runtime.
- The life of the lamp varies greatly depending on individual specificities and usage conditions. In particular, continuous use over 12 hours and frequent switching off/on of the power greatly deteriorate the lamp and affect the lamp life.
- In rare cases, the lamp burst shortly after the projection.
- The risk of bursting increases when the lamp is used beyond its replacement cycle. Make sure to replace the lamp unit consistently. ("When to replace the lamp unit" (➡ page 128), "Replacing the Lamp unit" (➡ page 128))
- If the lamp bursts, gas contained inside of the lamp is released in a form of smoke.
- It is recommended to store replacement lamp for contingency.

■ Computer and external device connections

- When connecting a computer or an external device, read this manual carefully regarding the use of power cords and shielded cables as well.

Notes on Using Wireless Connection

Wireless connection function of the projector uses radio waves in the 2.4 GHz / 5 GHz band.

A radio station license is not required, but be sure to read and fully understand the following items before use.

■ Do not use near other wireless equipment.

The following equipment may use radio waves in the same band as the projector.

When the projector is used near these devices, radio wave interference may make communication impossible, or the communication speed may become slower.

- Microwave ovens, etc.
- Industrial, chemical and medical equipment, etc.
- In-plant radio stations for identifying moving objects such as those used in factory manufacturing lines, etc.
- Designated low-power radio stations

■ If at all possible, avoid the use of cellular phones, TV sets or radios near the projector.

Cellular phones, TV sets, radios and similar devices use different radio bands from the projector, so there is no effect on wireless communication or the transmission and reception of these devices. However, radio waves from the projector may produce audio or video noise.

■ Wireless communication radio waves cannot penetrate steel reinforcements, metal, concrete, etc.

Communication is possible through walls and floors made from materials such as wood and glass (except glass containing wire mesh), but not through walls and floors made from steel reinforcements, metal, concrete, etc.

■ Avoid using the projector in locations prone to static electricity.

If the projector is used in a location prone to static electricity, such as on a carpet, the wireless LAN or wired LAN connection may be lost.

If the static electricity or noise make it impossible to establish a connection with the LAN, please press the power button on the remote control or the control panel to power off the projector, and eliminate the source of static electricity or noise, then turn on the projector.

■ Using the projector outside the country

It is forbidden to take the projector outside the country or region where you purchased it, so use it only in the said country or region. Also, note that depending on countries or regions there are restrictions on the channels and frequencies at which you can use the wireless LAN.

■ Available wireless LAN channels

The channels (frequency range) that can be used differ according to the country or region. Refer to the table below.

| Country or region | Standard | Channels used | Frequency band (Center frequency) |
|-------------------|-----------------|---|---|
| North America | IEEE802.11b/g/n | 1 - 11 channel | 2.412 GHz - 2.462 GHz |
| | IEEE802.11a/n | 36 / 40 / 44 / 48 channel | 5.180 GHz - 5.240 GHz |
| | | 52 / 56 / 60 / 64 channel | 5.260 GHz - 5.320 GHz |
| | | 100 / 104 / 108 / 112 / 116 / 132 / 136 / 140 channel | 5.500 GHz - 5.700 GHz (except 5.600 GHz - 5.650 GHz) |
| | | 149 / 153 / 157 / 161 / 165 channel | 5.745 GHz - 5.825 GHz |
| Other counties | IEEE802.11b/g/n | Passive scanning | 2.412 GHz - 2.472 GHz |
| | IEEE802.11a/n | Passive scanning | 5.745 GHz - 5.805 GHz |

*The frequency and channel differ depending on the country.

*The passive scanning is performed by changing radio to the channel being scanned in each country.

*Please use the wireless LAN feature in compliance with the laws of each country.

● For North America

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range (Channels 36 to 48).

About Wireless LANs

The advantage of a wireless LAN is that information can be exchanged between a PC or other such equipment and an access point using radio waves as long as you are within range for radio transmissions.

On the other hand, because the radio waves can travel through obstacles (such as walls) and are available everywhere within a given range, problems of the type listed below may occur if security-related settings are not made.

- A malicious third-party may intentionally intercept and monitor transmitted data including the content of e-mail and personal information such as your ID, password, and/or credit card numbers.
- A malicious third-party may access your personal or corporate network without authorization and engage in the following types of behavior.
 - Retrieve personal and/or secret information (information leak)
 - Spread false information by impersonating a particular person (spoofing)
 - Overwrite intercepted communications and issue false data (tampering)
 - Spread harmful software such as a computer virus and crash your data and/or system (system crash)

Since most wireless LAN adapters or access points are equipped with security features to take care of these problems, you can reduce the possibility of these problems occurring when using this product by making the appropriate security settings for the wireless LAN device.

Some wireless LAN devices may not be set for security immediately after purchase. To decrease the possibility of occurrence of security problems, before using any wireless LAN devices, be absolutely sure to make all security-related settings according to the instructions given in the operation manuals supplied with them.

Depending on the specifications of the wireless LAN, a malicious third-party may be able to break security settings by special means.

Panasonic asks customers to thoroughly understand the risk of using this product without making security settings, and recommends that the customer make security settings at their own discretion and responsibility.

Accessories

Make sure the following accessories are provided with your projector. Numbers enclosed < > show the number of accessories.

Wireless remote control unit <1>

(N2QAYA000101)

PT-VW355N



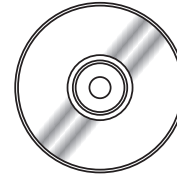
(N2QAYA000100)

PT-VX425N



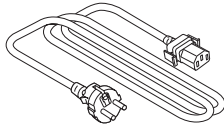
CD-ROM <1>

(TXFQB02VMC2)

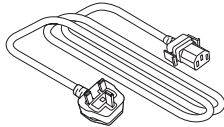


Power cord

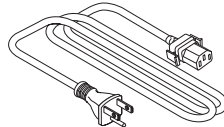
(TXFSX02UXRZ)



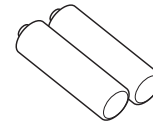
(TXFSX02UYAZ)



(TXFSX02UFEZ)



AAA/R03 or AAA/LR03 battery <2>

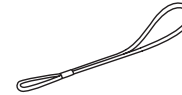


(for remote control unit)

String <1>

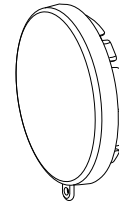
(for lens cap)

(6103504711)



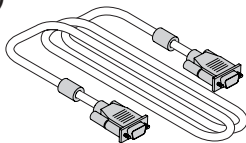
Lens cap <1>

(TKKL5568)



RGB signal cable <1>

(K1HY15YY0012)



Attention

- After unpacking the projector, discard the power cord cap and packaging material properly.
- Do not use the supplied power cord for devices other than this projector.
- For lost accessories, consult your dealer.
- Store small parts in an appropriate manner, and keep them away from young children.

Note

- The type and number of the power cord depend on the country in which you purchased the product.
- The model numbers of accessories are subject to change without prior notice.
- The supplied string is used for lens cap, refer to "Attaching the Lens Cap" (➔ page 30).

Contents of the supplied CD-ROM

The contents of the supplied CD-ROM are as follow.

| | | |
|-------------------------------|--|---|
| Instruction/list (PDF) | Operating Instructions – Functional Manual | |
| | Operating Instructions – Multi Projector Monitoring & Control Software | |
| | Operating Instructions – Logo Transfer Software | |
| | Operating Instructions – Wireless Manager ME6.3 | |
| | List of Compatible Projector Models | This is a list of projectors that are compatible with the software contained in the CD-ROM and their restrictions. |
| Software license | The open source software licenses that used in this projector are included in the PDF files. | |
| Software | Multi Projector Monitoring & Control Software (Windows) | This software allows you to monitor and control multiple projectors connected to the LAN. |
| | Logo Transfer Software (Windows) | This software allows you to transfer original images, such as company logos to be displayed when projection starts, to the projector. |
| | Wireless Manager ME6.3 (Windows/Mac) | This software allows you to send computer screen displays over wireless/wired LAN. |

Optional accessories

| Options | Model No. |
|-------------------------|---|
| Ceiling Mount Bracket | ET-PKL100H (for high ceilings) ET-PKL100S (for low ceilings) ET-PKV400B (Projector Mount Bracket) |
| Replacement Lamp Unit | ET-LAV300 |
| Replacement Filter Unit | ET-RFV300 |
| Easy Wireless Stick*1 | ET-UW100 |

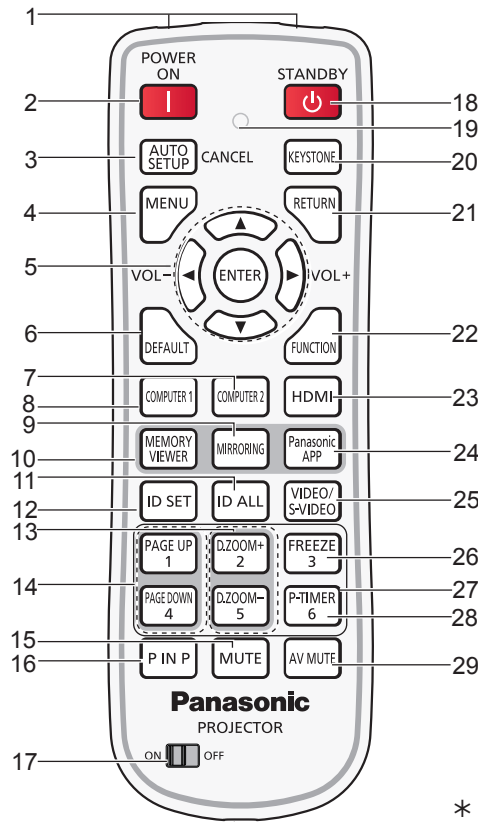
*1 This product can be purchased in the U.S., Canada, Japan and the European Communities.

Note

- The model numbers of optional accessories are subject to change without prior notice.

About your projector

Remote control



* This jack is not used for these projector models.

- | | |
|---|---|
| <p>1 Remote control signal emitters</p> <p>2 Power on < > button Turn the projector on.</p> <p>3 <AUTO SETUP/CANCEL> button Automatically adjusts the image display position while projecting the image. In addition, it acts as <CANCEL> button when using the MEMORY VIEWER function. (➔ page 49)</p> <p>4 <MENU> button Open or close the On-Screen Menu. (➔ page 56)</p> <p>5 <ENTER> button/▲▼◀(VOL -) ▶(VOL+) buttons Navigate the menu display. Adjust the volume.</p> <p>6 <DEFAULT> button Resets the content of the sub-menu to the factory default. (➔ page 57) Or deletes one character when you enter an IP address or a text.</p> <p>7 <COMPUTER 2> button Switches the COMPUTER2 signal to project.</p> <p>8 <COMPUTER 1> button Switches the COMPUTER1 signal to project.</p> <p>9 <MIRRORING> button Switches the MIRRORING signal to project. (➔ page 51)</p> <p>10 <MEMORY VIEWER> button Switches the MEMORY VIEWER signal to project. (➔ page 50)</p> <p>11 <ID ALL> button Used to simultaneously control all the projectors with one remote control for a system using multiple projectors. (➔ page 29)</p> <p>12 <ID SET> button Sets the ID number of the remote control to use for a system using multiple projectors. (➔ page 29)</p> <p>13 <D.ZOOM +/-> buttons Zoom in and out the images. (➔ page 52)</p> <p>14 <PAGE UP/PAGE DOWN> buttons You can page up or page down files such as PowerPoint through "Wireless Manager ME6.3". (➔ page 51)</p> | <p>15 <MUTE> button Used to mute the audio. (➔ page 54)</p> <p>16 <P IN P> button (Only for PT-VW355N) Operate the P IN P function. (➔ page 53)</p> <p>17 <ON/OFF> switch When using the remote control, set this switch to "ON". Set it to "OFF" to avoid misoperation when it is not in use.</p> <p>18 Power standby <⏻> button Turn the projector off.</p> <p>19 Remote control indicator Flashes if any button in the remote control is pressed.</p> <p>20 <KEystone> button Correct keystone distortion. (➔ page 49)</p> <p>21 <RETURN> button Return to the previous menu or cancel the setting.</p> <p>22 <FUNCTION> button Assigns a frequently used operation as a shortcut button.</p> <p>23 <HDMI> button Switches the HDMI signal to project.</p> <p>24 <Panasonic APP> button Switches the Panasonic APPLICATION signal to project.</p> <p>25 <VIDEO/S-VIDEO> button Switches the VIDEO signal or S-VIDEO signal to project.</p> <p>26 <FREEZE> button Pauses the projected image and mute the audio temporarily. (➔ page 53)</p> <p>27 Number buttons Act as number buttons. Use these buttons when setting the remote control codes or entering the password.</p> <p>28 <P-TIMER> button Operate the P-TIMER function. (➔ page 54)</p> <p>29 <AV MUTE> button Used to turn off the audio and video temporarily. (➔ page 53)</p> |
|---|---|

Attention

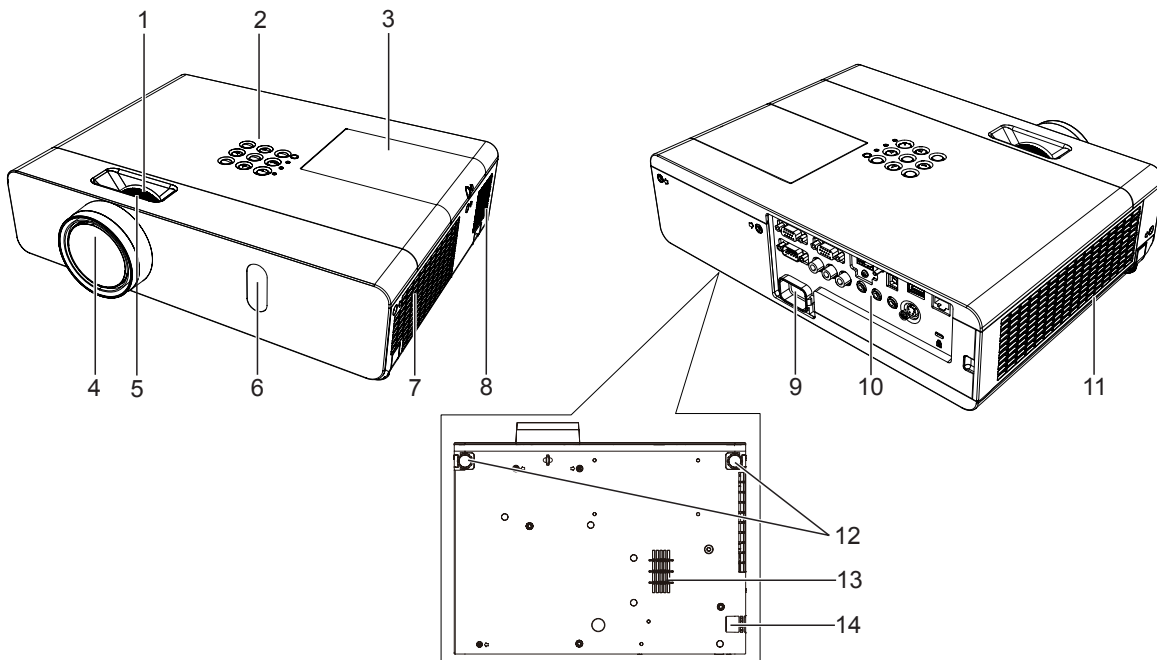
- Do not drop the remote control.
- Avoid contact with liquids.
- Do not attempt to modify or disassemble the remote control.
- Please observe the following contents that are described on the back of the remote control unit (see the right picture).
 1. Do not use a new battery together with an old battery.
 2. Do not use unspecified batteries.
 3. Make sure the polarities (+ and -) are correct when inserting the batteries.
- In addition, please read the contents that are related to batteries in the "Read this first!".

| CAUTION | |
|--|---|
| 1. Do not use old battery with new one. | ⚠ |
| 2. Do not use batteries other than the type specified. | ⚠ |
| 3. Be sure the batteries are inserted properly. | ⚠ |

Note

- The remote control can be used within a distance of about 7 m (22'11-5/8") if pointed directly at the remote control signal receiver. The remote control can control at angles of up to $\pm 30^\circ$ vertically and $\pm 30^\circ$ horizontally, but the effective control range may be reduced.
- If there are any obstacles between the remote control and the remote control signal receiver, the remote control may not operate correctly.
- You can operate the projector by reflecting the remote control signal on the screen. The operating range may differ due to the loss of light caused by the properties of the screen.
- When the remote control signal receiver is lit with a fluorescent light or other strong light source, the projector may become inoperative. Set the projector as far from the luminous source as possible.

Projector body



WARNING

Keep your hands and other objects away from the air exhaust port and the air intake port (bottom).

- Keep your hand and face away.
- Do not insert your finger.
- Keep heat-sensitive articles away.

Heated air from the air exhaust port can cause burns or external damage.

When using the projector on a ceiling and powering off with the Direct Power Off function, the heated air from the air intake port in the bottom can cause burns or external damage.

- | | |
|--|---|
| <p>1 Zoom ring (Back) Adjust the zoom.</p> <p>2 Control Panel and Indicators (⇒ page 27)</p> <p>3 Lamp cover (⇒ page 128) The lamp unit is located inside.</p> <p>4 Projection Lens</p> <p>5 Focus ring (Front) Adjust the focus.</p> <p>6 Remote control signal receiver/Camera</p> | <p>7 Air exhaust port</p> <p>8 Speaker</p> <p>9 <AC IN> terminal Connect the supplied power cord.</p> <p>10 Connecting terminals (⇒ page 28)</p> <p>11 Air intake port (Side) / Air filter cover (⇒ page 126) The air filter unit is inside.</p> <p>12 Adjustable feet Adjust the projection angle.</p> |
|--|---|

13 Air intake port (Bottom)

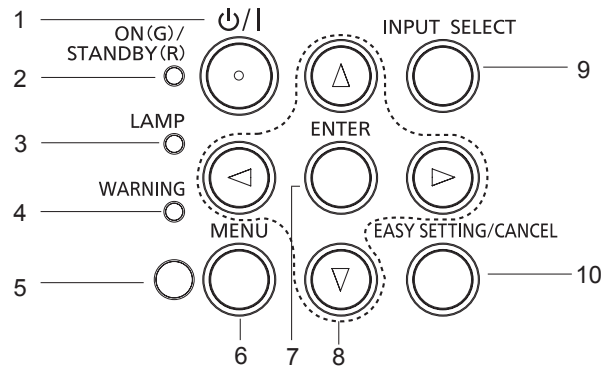
14 Security Chain Hook

Attaches a burglar prevention cable, etc.

Attention

- Do not block the ventilation ports (intake and exhaust) of the projector.

■ Control panel and Indicators



1 Power <⏻/⏻> button

Turns the projector on/off.
(⏻ standby / | power on)

2 Power indicator <ON(G)/STANDBY(R)>

Displays the status of the power.

3 Lamp indicator <LAMP>

Displays the status of the lamp.

4 Warning indicator <WARNING>

Indicates the abnormal conditions of the projector.

5 Ambient Luminance sensor

Detects room's light and select proper image quality.

6 <MENU> button

Displays the menu screen. (➡ page 56)

7 <ENTER> button

Determines and executes an item in the menu screen.

8 ▲▼◀▶ buttons

Navigates the menu screen.
Adjusts the volume level (◀▶).

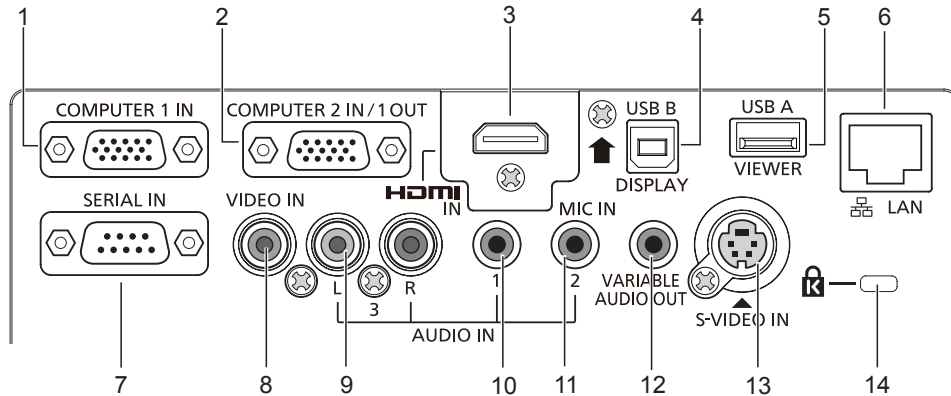
9 <INPUT SELECT> button

Selects the input signal for projection. (➡ page 50)

10 <EASY SETTING/CANCEL> button

Executes the EASY SETTING function.
In addition, it acts as <CANCEL> button when using the MEMORY VIEWER function.

■ Connecting terminals



1 <COMPUTER 1 IN> terminal

This is the terminal to input RGB or YCbCr/YPbPr signals.

2 <COMPUTER 2 IN/ 1 OUT> terminal

This is the terminal to input RGB signals. Or output the RGB or YCbCr/YPbPr signals to external monitor.

3 <HDMI IN> terminal

This is the terminal to input HDMI signals.

4 <USB B (DISPLAY)> terminal

This terminal is used to connect the projector to the computer with a USB cable when you want to use the USB display function of the application software "Wireless Manager ME6.3". For details, please refer to the "Operating Instructions-Wireless Manager ME6.3" in CD-ROM.

5 <USB A (VIEWER)> terminal

This terminal is to insert the USB memory directly.

6 <LAN> terminal

This is the LAN terminal to connect to the network.

7 <SERIAL IN> terminal

This is the RS-232C compatible terminal to externally control the projector by connecting a computer.

8 <VIDEO IN> terminal

This is the terminal to input video signals.

9 <AUDIO IN 3 (L/R)> terminal

This is the terminal to input audio signals. Left input (L) and right input (R) are provided for the <AUDIO IN 3> terminal.

10 <AUDIO IN 1> terminal

This is the terminal to input audio signals.

11 <AUDIO IN 2 (MIC IN)> terminal

This is the terminal to input audio signals. Or connect the MIC to this terminal.

12 <VARIABLE AUDIO OUT> terminal

This is the terminal to output the input audio signal to the projector.

13 <S-VIDEO IN> terminal

This is the terminal to input s-video signals.

14 Security slot

Attach the commercial shackle lock, manufactured by Kensington, to protect your projector. Compatible with the Kensington MicroSaver Security System.

Attention

- When a LAN cable is directly connected to the projector, the network connection must be made indoors.

Preparing the remote control

Inserting and removing batteries

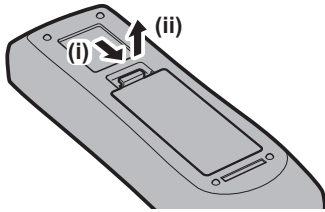


Fig. 1

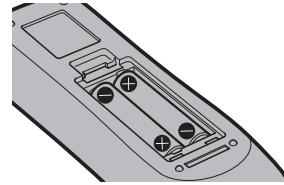


Fig. 2

- 1) **Open the cover. (Fig. 1)**
- 2) **Insert batteries and close the cover. (Insert the "⊖" side first.) (Fig. 2)**
 - When removing the batteries, perform the steps in reverse order.

When using the system with multiple projectors

When you use the system with multiple projectors, you can operate all the projectors simultaneously or each projector individually by using single remote control, if a unique ID number is assigned to each projector.

When you want to set the ID number, at first you need to complete the Initial setting, and then after setting the ID number of the projector, set the ID number on the remote control. About Initial setting, please refer to "When the initial setting screen is displayed" (➔ page 42).

The factory default ID number of the unit (the projector and the remote control) is set to [ALL], you can control with this setting. If necessary, please set the ID number to the remote control and the projector. About how to set the ID number of the remote control, please refer to "Setting the ID number of the remote control" (➔ page 54).

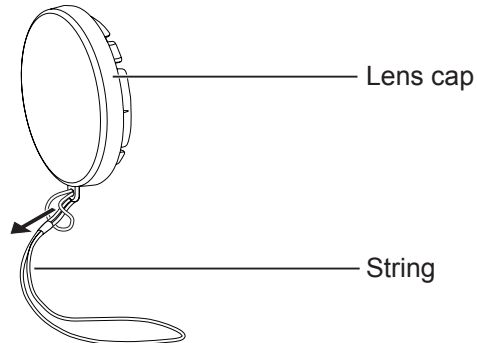
Note

- Set the ID number of the projector from the [PROJECTOR SETUP] menu → [PROJECTOR ID]. (➔ page 78)

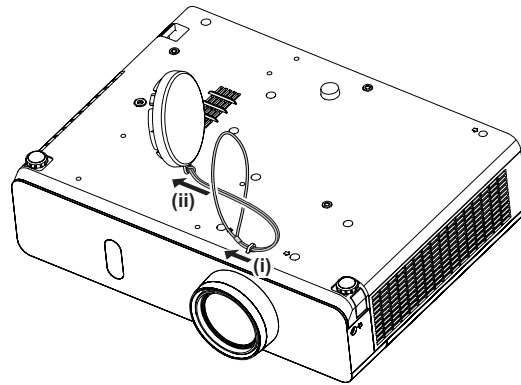
Attaching the Lens Cap

When moving this projector or while not using it over an extended period of time, attach the lens cap. To prevent loss for the lens cap, please according to the following procedures, attach the lens cap with the string of accessories.

- 1) Thread the thinner end of the string through the hole on the lens cap.



- 2) Thread the other end of the string through the hole on the bottom of the projector.



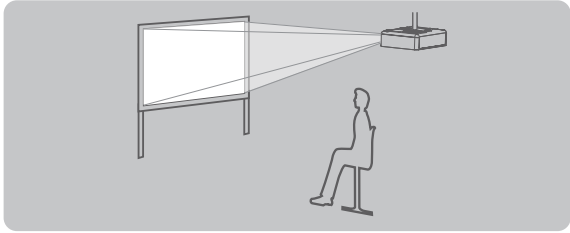
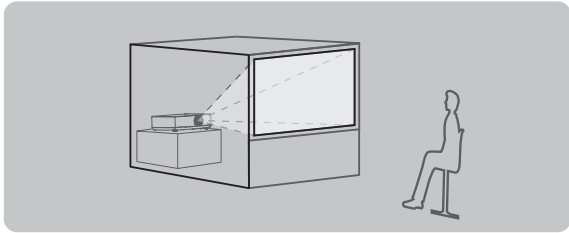
Chapter 2 Getting Started

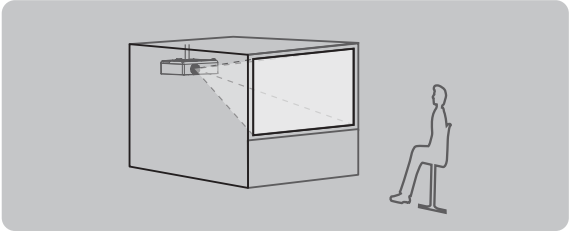
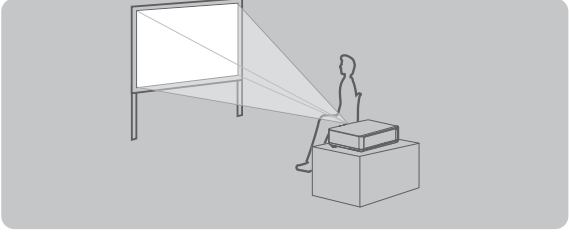
This chapter describes things you need to do before using the projector such as the setup and connections.

Setting up

Installation mode

There are four ways to set up the projector. Set the [PROJECTOR SETUP] menu → [PROJECTION METHOD] (➔ page 78) depending on the installation location.

| | | | |
|--|-----------------|---|---------------|
| Mounting on the ceiling and projecting forward  | | Setting on a desk/floor and projecting from rear (Using the translucent screen)  | |
| Menu item | Method | Menu item | Method |
| [PROJECTION METHOD] | [FRONT/CEILING] | [PROJECTION METHOD] | [REAR/DESK] |

| | | | |
|---|----------------|--|---------------|
| Mounting on the ceiling and projecting from rear (Using the translucent screen)  | | Setting on a desk/floor and projecting forward  | |
| Menu item | Method | Menu item | Method |
| [PROJECTION METHOD] | [REAR/CEILING] | [PROJECTION METHOD] | [FRONT/DESK] |

Parts for ceiling mount (optional)

This requires an optional ceiling mount bracket. Be sure to use the Projector Mount Bracket together with the ceiling mount bracket for high ceilings or low ceilings.

Model No.:

- ① ET-PKL100H (for high ceilings), ET-PKV400B (Projector Mount Bracket)
- ② ET-PKL100S (for low ceilings), ET-PKV400B (Projector Mount Bracket)

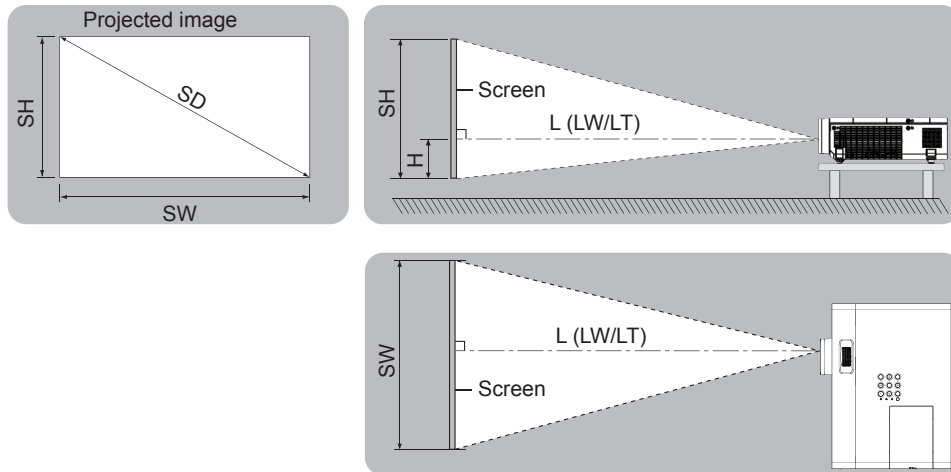
- Use only the ceiling mount brackets specified for this projector.
- Refer to the Installation Instructions for the ceiling mount bracket when you install the bracket and the projector.

Attention

- To ensure projector performance and security, installation of the ceiling mount bracket must be carried by your dealer or a qualified technician.

Screen size and throw distance

Refer to the screen size and projection distances to install the projector. Image size and image position can be adjusted in accordance with the screen size and screen position.



| | |
|--------------|---|
| L (LW/LT) *1 | Projection distance (m) |
| SH | Image height (m) |
| SW | Image width (m) |
| H | Distance from the center of lens to the image lower end (m) |
| SD | Projected image size (m) |

*1 LW : Minimum distance
LT : Maximum distance

Attention

- Before installing, please read "Precautions for Use" (➔ page 18).

Projection distance

For PT-VW355N

All measurements below are approximate and may differ slightly from the actual measurements. (Unit: m)

| Projection size | For 4:3 aspect ratio | | | For 16:9 aspect ratio | | | For 16:10 aspect ratio | | |
|-----------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|
| | Screen diagonal (SD) | Minimum distance (LW) | Maximum distance (LT) | Height position (H) | Minimum distance (LW) | Maximum distance (LT) | Height position (H) | Minimum distance (LW) | Maximum distance (LT) |
| 0.76 (30") | 0.83 | 1.37 | 0.009 | 0.76 | 1.24 | -0.012 | 0.73 | 1.21 | 0.008 |
| 1.02 (40") | 1.13 | 1.85 | 0.012 | 1.02 | 1.68 | -0.017 | 0.99 | 1.63 | 0.011 |
| 1.27 (50") | 1.41 | 2.31 | 0.015 | 1.28 | 2.09 | -0.021 | 1.25 | 2.04 | 0.013 |
| 1.52 (60") | 1.70 | 2.77 | 0.018 | 1.54 | 2.51 | -0.025 | 1.50 | 2.44 | 0.016 |
| 1.78 (70") | 1.99 | 3.25 | 0.021 | 1.81 | 2.95 | -0.029 | 1.76 | 2.87 | 0.019 |
| 2.03 (80") | 2.28 | 3.71 | 0.024 | 2.07 | 3.37 | -0.033 | 2.01 | 3.27 | 0.022 |
| 2.29 (90") | 2.57 | 4.19 | 0.027 | 2.33 | 3.80 | -0.037 | 2.27 | 3.70 | 0.024 |
| 2.54 (100") | 2.86 | 4.65 | 0.030 | 2.59 | 4.22 | -0.041 | 2.52 | 4.10 | 0.027 |
| 3.05 (120") | 3.44 | 5.59 | 0.037 | 3.12 | 5.07 | -0.050 | 3.03 | 4.93 | 0.032 |
| 3.81 (150") | 4.30 | 6.99 | 0.046 | 3.90 | 6.34 | -0.062 | 3.80 | 6.17 | 0.040 |
| 5.08 (200") | 5.74 | 9.33 | 0.061 | 5.21 | 8.47 | -0.083 | 5.07 | 8.24 | 0.054 |
| 6.35 (250") | 7.19 | 11.67 | 0.076 | 6.52 | 10.59 | -0.104 | 6.34 | 10.30 | 0.067 |
| 7.62 (300") | 8.63 | 14.01 | 0.091 | 7.82 | 12.72 | -0.124 | 7.62 | 12.37 | 0.081 |

Chapter 2 Getting Started - Setting up

For PT-VX425N

All measurements below are approximate and may differ slightly from the actual measurements. (Unit: m)

| Projection size | For 4:3 aspect ratio | | | For 16:9 aspect ratio | | |
|-----------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|---------------------|
| | Minimum distance (LW) | Maximum distance (LT) | Height position (H) | Minimum distance (LW) | Maximum distance (LT) | Height position (H) |
| 0.76 (30") | 0.69 | 1.14 | 0.046 | 0.75 | 1.24 | -0.012 |
| 1.02 (40") | 0.94 | 1.54 | 0.061 | 1.02 | 1.68 | -0.017 |
| 1.27 (50") | 1.17 | 1.92 | 0.076 | 1.28 | 2.09 | -0.021 |
| 1.52 (60") | 1.41 | 2.30 | 0.091 | 1.54 | 2.51 | -0.025 |
| 1.78 (70") | 1.65 | 2.70 | 0.107 | 1.81 | 2.94 | -0.029 |
| 2.03 (80") | 1.89 | 3.08 | 0.122 | 2.06 | 3.36 | -0.033 |
| 2.29 (90") | 2.14 | 3.48 | 0.137 | 2.33 | 3.80 | -0.037 |
| 2.54 (100") | 2.37 | 3.87 | 0.152 | 2.59 | 4.21 | -0.031 |
| 3.05 (120") | 2.86 | 4.65 | 0.183 | 3.11 | 5.07 | -0.050 |
| 3.81 (150") | 3.58 | 5.81 | 0.229 | 3.90 | 6.33 | -0.062 |
| 5.08 (200") | 4.78 | 7.76 | 0.305 | 5.21 | 8.45 | -0.083 |
| 6.35 (250") | 5.98 | 9.70 | 0.381 | 6.52 | 10.57 | -0.104 |
| 7.62 (300") | 7.18 | 11.65 | 0.457 | 7.82 | 12.70 | -0.124 |

Projection distance formulas

Any other projection distance can be obtained according to the screen dimensions (m) by using the following calculations.

The calculated distance may contain a certain error.

If you want to calculate the projection distance with projected image size SD (unit: inch) by substituting, please assign 0.0254 times to the SD value.

For PT-VW355N

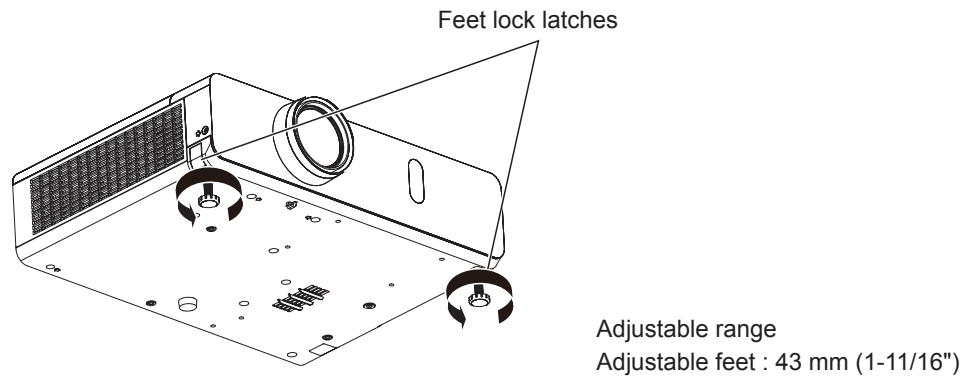
| | For 4:3 aspect ratio | For 16:9 aspect ratio | For 16:10 aspect ratio |
|-----------------------|---------------------------|---------------------------|---------------------------|
| Screen height (SH) | = 0.6 × SD(m) | = 0.490 × SD(m) | = 0.530 × SD(m) |
| Screen width (SW) | = 0.8 × SD(m) | = 0.872 × SD(m) | = 0.848 × SD(m) |
| Minimum distance (LW) | = 1.1363 × SD(m) - 0.0290 | = 1.0316 × SD(m) - 0.0290 | = 1.0037 × SD(m) - 0.0290 |
| Maximum distance (LT) | = 1.8422 × SD(m) - 0.0292 | = 1.6725 × SD(m) - 0.0292 | = 1.6273 × SD(m) - 0.0292 |

For PT-VX425N

| | For 4:3 aspect ratio | For 16:9 aspect ratio |
|-----------------------|---------------------------|---------------------------|
| Screen height (SH) | = 0.6 × SD(m) | = 0.490 × SD(m) |
| Screen width (SW) | = 0.8 × SD(m) | = 0.872 × SD(m) |
| Minimum distance (LW) | = 0.9461 × SD(m) - 0.0295 | = 1.0307 × SD(m) - 0.0295 |
| Maximum distance (LT) | = 1.5324 × SD(m) - 0.0272 | = 1.6696 × SD(m) - 0.0272 |

Adjusting adjustable feet

Lift the front of the projector and press the feet lock latches on both side of the projector. Release the feet lock latches to lock the adjustable feet and rotate the adjustable feet to a proper height and tilt. Extend the adjustable feet by rotating in the direction shown in the figure and retract by rotating in the opposite direction.



Attention

- Heated air comes out of the air exhaust port while the lamp is lit. Do not touch the air exhaust port directly when you adjust the adjustable feet.
- If keystone distortion occurs on the projected image, perform [KEYSTONE] from the [POSITION] menu. (➔ page 65)

Note

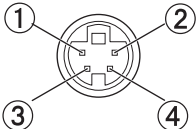
- Screw up the adjustable feet, and an audible click will be heard as the limit.

Connecting

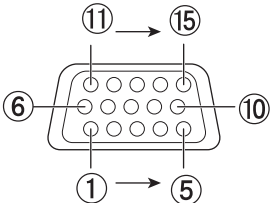
Before connecting

- Before connecting, carefully read the operating instructions for the external device to be connected.
- Turn off the power switch of the devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
 - When connecting a cable to a device connected to the projector or the projector itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
 - Do not use unnecessarily long cables to connect to a device connected to the projector or to the projector body. The longer the cable, the more it is susceptible to noise. Since using a cable while it is wound makes it act like an antenna, it is more susceptible to noise.
 - When connecting cables, connect GND first, then insert the connecting terminal of the connecting device in a straight manner.
- If any connection cable is not supplied with the device, or if no optional cable is available for connection of the device, prepare a necessary system connection cable to suit the device.
- Video signals containing too much jitter may cause the images on the screen to randomly wobble or wafture. In this case, a time base corrector (TBC) must be connected.
- The projector accepts VIDEO signals, S-VIDEO signals, YCbCr/YPbPr signals and analog RGB signals (synchronous signals are TTL level), and digital signal.
- Some computer models or graphics cards are not compatible with the projector.
- When using long cables to connect with each of equipment to the projector, there is a possibility that the image will not be output correctly unless a compensator is used.
- For details on what video signals the projector supports, see "List of compatible signals". (➔ page 141)

<S-VIDEO IN> terminal pin assignments and signal names

| Outside view | Pin No. | Signal names |
|---|---------|------------------------|
|  | ① | GND (luminance signal) |
| | ② | GND (color signal) |
| | ③ | Luminance signal |
| | ④ | Color signal |

<COMPUTER 1 IN> terminal pin assignments and signal names

| Outside view | Pin No. | Signal names | Pin No. | Signal names |
|---|---------|------------------|---------|--------------|
|  | ① | R/P _R | ⑨ | + 5 V |
| | ② | G/Y | ⑩ | GND |
| | ③ | B/P _R | ⑪ | GND |
| | ④ | — | ⑫ | DDC data |
| | ⑤ | GND | ⑬ | HD/SYNC |
| | ⑥ | GND | ⑭ | VD |
| | ⑦ | GND | ⑮ | DDC clock |
| | ⑧ | GND | | |

<COMPUTER 2 IN/1 OUT> terminal pin assignments and signal names

| Outside view | Pin No. | Signal names | Pin No. | Signal names |
|---|---------|---------------------|---------|--------------|
| <p>The diagram shows a 15-pin terminal with pins numbered 1 to 15. Pins 1, 2, 3, 4, 5, 6, 7, and 8 are on the left side, and pins 9, 10, 11, 12, 13, 14, and 15 are on the right side. Arrows indicate the direction of the pins.</p> | ① | R/P _R *1 | ⑨ | +5 V |
| | ② | G/Y *1 | ⑩ | GND |
| | ③ | B/P _B *1 | ⑪ | — |
| | ④ | — | ⑫ | DDC data |
| | ⑤ | GND | ⑬ | HD/SYNC |
| | ⑥ | GND | ⑭ | VD |
| | ⑦ | GND | ⑮ | DDC clock |
| | ⑧ | GND | | |

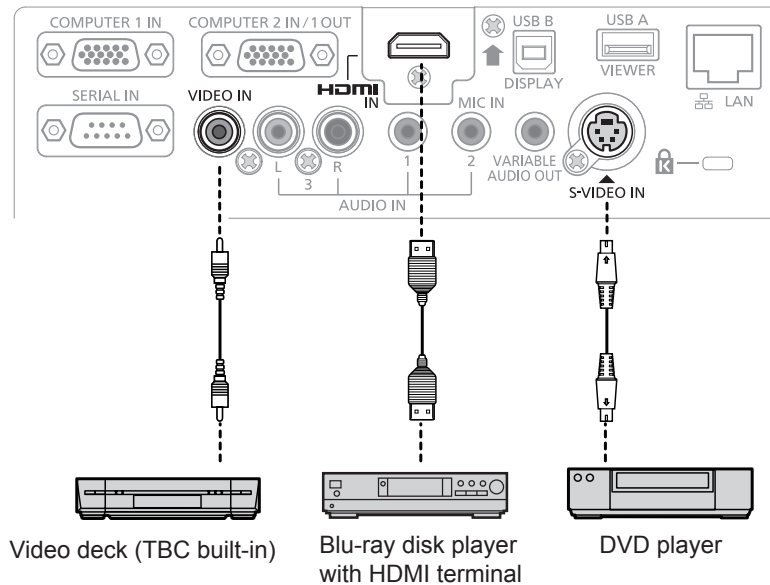
*1: It is only for RGB signals when the terminal is used as the input terminal.

<HDMI IN> terminal pin assignments and signal names

| Outside view | Pin No. | Signal names | Pin No. | Signal names |
|--|---------|-----------------------|---------|----------------------|
| <p>The diagram shows a 19-pin HDMI terminal. Pins 1 to 19 are numbered. Pins 2 to 18 are even-numbered and pins 1 to 19 are odd-numbered. Arrows indicate the direction of the pins.</p> | ① | T.M.D.S data 2+ | ⑪ | T.M.D.S clock shield |
| | ② | T.M.D.S data 2 shield | ⑫ | T.M.D.S clock - |
| | ③ | T.M.D.S data 2- | ⑬ | CEC |
| | ④ | T.M.D.S data 1+ | ⑭ | — |
| | ⑤ | T.M.D.S data 1 shield | ⑮ | SCL |
| | ⑥ | T.M.D.S data 1- | ⑯ | SDA |
| | ⑦ | T.M.D.S data 0+ | ⑰ | DDC/CEC GND |
| | ⑧ | T.M.D.S data 0 shield | ⑱ | +5 V |
| | ⑨ | T.M.D.S data 0- | | Hot plug detection |
| | ⑩ | T.M.D.S clock + | | |

Connecting example : AV equipment

For <HDMI IN>/<VIDEO IN>/<S-VIDEO IN> terminals



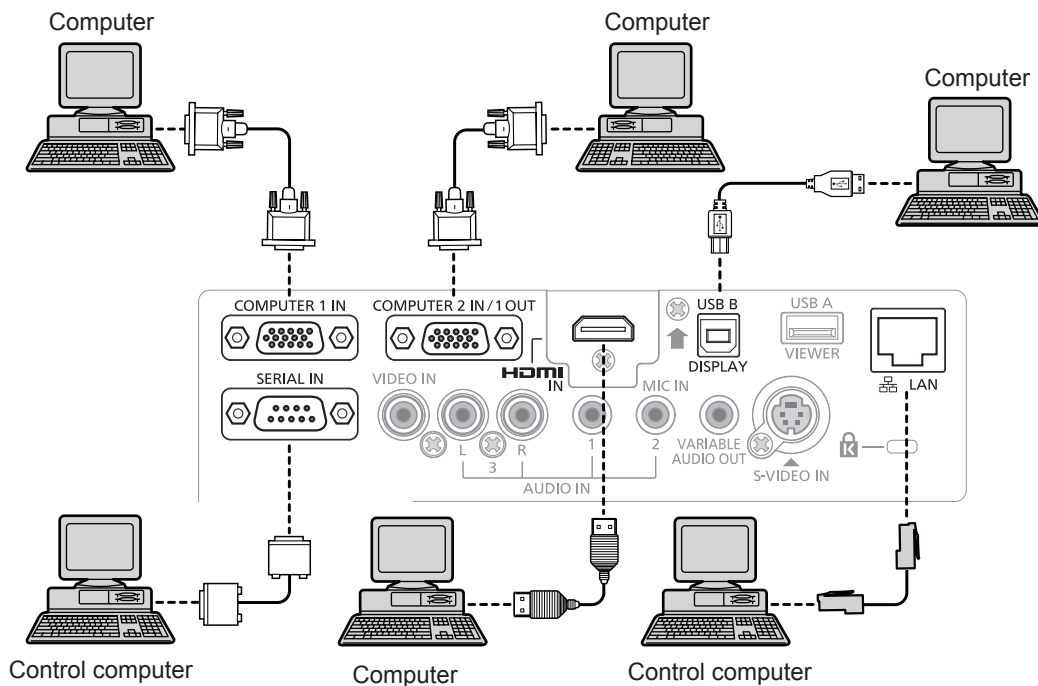
Attention

- Always use one of the following when connecting a VCR.
 - A VCR with built-in time base corrector (TBC).
 - A time base corrector (TBC) between the projector and the VCR.
- If nonstandard burst signals are connected, the image may be distorted. In such case, connect the time base corrector (TBC) between the projector and the external devices.

Note

- For an HDMI cable, use an HDMI High Speed cable that conforms to HDMI standards. If a cable that does not conform to HDMI standards is used, images may be interrupted or may not be displayed.
- This projector does not support the Viera link (HDMI).

Connecting example : Computers



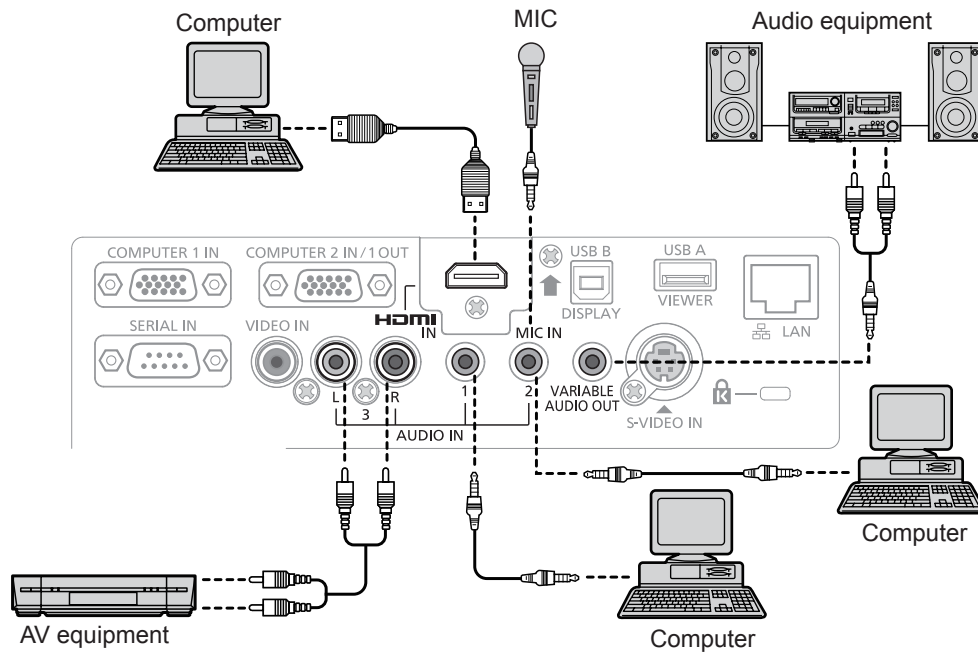
Attention

- When connecting the projector to a computer or an external device, use the power cord supplied with each device and commercially available shielded cables.

Note

- If you operate the projector using the computer with the resume feature (last memory), you may have to reset the resume feature to operate the projector.
- You can project the image and video via wired LAN, wireless LAN, or the <USB B (DISPLAY)> terminal to the projector. For detailed information, refer to “Connecting with Wired LAN” (➔ page 97), “Connecting with Wireless LAN” (➔ page 98) or the operating Instructions of “Wireless Manager ME6.3” in the supplied CD-ROM.

Connecting example : Audio



Note

- If the [AUDIO IN SELECT] settings are incorrect, the projector may have malfunctions such as the absence of audio. (➔ page 82)
- When the <VARIABLE AUDIO OUT> terminal is connected with cable, the sound will not be output from the built-in speaker.

Chapter 3 Basic Operations

This chapter describes basic operations to start with.