

Operating Instructions

LCD Projector Commercial Use Model No. PT-F300NTE PT-F300E



Before operating this product, please read the instructions carefully and save this manual for future use.

TQBJ0280-3



Important Safety Notice

Dear Panasonic Customer:

This instruction booklet provides all the necessary operating information that you might require. We hope it will help you to get the most out of your new product, and that you will be pleased with your Panasonic LCD projector. The serial number of your product may be found on its bottom. You should note it in the space provided below and retain this booklet in case service is required.

Model number: PT-F300NTE/PT-F300E

Serial number:

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.

Machine Noise Information Ordinance 3. GSGV, January 18, 1991: 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 earthingtype 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.

CAUTION: To assure continued compliance, follow the attached installation instructions, which includes using the provided power cord and shielded interface cables when connecting to computer or peripheral device. If you use serial port to connect PC for external control of projector, you must use optional RS-232C serial interface cable with ferrite core. Any unauthorized changes or modifications to this equipment will void the user's authority to operate.

Pursuant to at the directive 2004/108/EC, article 9(2) Panasonic Testing Centre Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, F.R. Germany



Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union



If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Important Safety Notice

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.doc.panasonic.de

Contact in the EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, F.R.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



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.doc.panasonic.de Kontaktadresse in der EG: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, F.R.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 und Großbritannien



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.doc.panasonic.de

Coordonnées dans l'UE : Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, F.R.Germany

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

Autriche, Belgique, Bulgarie, République Tchéquie, 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 et Royaume-Uni



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.doc.panasonic.de

Contacto en la U.E.: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, F.R.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 y el Reino Unido



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.doc.panasonic.de Contatto nella EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, F.R.Germany

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

Austria, Belgio, Bulgaria, Repubblica Ceca, Cipro, Danimarca, Estonia, Finlandia, Francia, Germania, Grecia, Irlanda, Islanda, Italia, Lettonia, Lituania, Lussembugo, Malta, Olanda, Norvegia, Polonia, Portogallo, Romania, Regno Unito, Slovenia, Slovacchia, Spagna, Svezia, Svizzera, Ungheria

ENGLISH - 4

Important Safety Notice

България

Това устройство отговаря на съществените изисквания и останалите приложими разпоредби на Директива 1999/5/ЕО.

Česky

Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.

Dansk

Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.

Eesti

See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.

Ελληνική

Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EC.

Íslenska

Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.

Latviski

Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių

Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.

Nederlands

Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.

Malti

Dan I-apparat huwa konformi mal-ħtiġiet essenzjali u I-provedimenti I-oħra rilevanti tad-Direttiva 1999/5/EC.

Magyar

Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.

Norsk

Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.

Polski

Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektyvą UE: 1999/5/EC.

Português

Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.

România

Acest echipament este conform cu cerințele de bază și celelalte prevederi relevante ale Directivei 1999/5/CE.

Slovensko

Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.

Slovensky

Toto zariadenie je v zhode so základnými poiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.

Suomi

Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.

Svenska

Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

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Preparation

WARNINGS

If you notice smoke, strange smells or noise coming from the projector, disconnect the mains plug from the mains socket.

- Do not continue to use the projector in such cases, otherwise fire or electric shocks could result.
- Check that no more smoke is coming out, and then contact an Authorised Service Centre for repairs.
- Do not attempt to repair the projector yourself, as this can be dangerous.

Do not install this projector in a place which is not strong enough to take the full weight of the projector.

 If the installation location is not strong enough, it may fall down or tip over, and severe injury or damage could result.

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

- If installation is not carried out correctly, there is the danger that injury or electric shocks may occur.
- Do not use other than an authorised ceiling mount bracket.

If foreign objects or water get inside the projector, or if the projector is dropped or the cabinet is broken, disconnect the mains plug from the mains socket.

- Continued use of the projector in this condition may result in fire or electric shocks.
- Contact an Authorised Service Centre for repairs.

The mains socket shall be installed near the equipment and shall be easily accessible.

• Unplug the mains plug from the mains socket immediately when problem occurred.

Do not overload the mains socket.

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

Never attempt to modify or disassemble the projector.

- High voltages can cause fire or electric shocks.
- For any inspection, adjustment and repair work, please contact an Authorised Service Centre.

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

- If dust builds up on the mains plug, the resulting humidity can damage the insulation, which could result in fire. Pull the mains plug out from the mains socket and wipe it with a dry cloth.
- If not using the projector for an extended period of time, pull the mains plug out from the mains socket.

Do not handle the mains plug with wet hands.

• Failure to observe this may result in electric shocks.

Insert the mains plug securely into the mains socket.

- Do not use other than the provided mains lead.
- If the plug is not inserted correctly, electric shocks or overheating could result.
- Do not use plugs which are damaged or mains sockets which are coming loose from the wall.

Do not place the projector on top of surfaces which are unstable.

• If the projector is placed on top of a surface which is sloped or unstable, it may fall down or tip over, and injury or damage could result.

Do not place the projector into water or let it become wet.

• Failure to observe this may result in fire or electric shocks.

Do not do anything that might damage the mains lead or the mains plug.

- Do not damage the mains lead, 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.
- If the mains lead is used while damaged, electric shocks, short-circuits or fire may result.
- Ask an Authorised Service Centre to carry out any repairs to the mains lead that might be necessary.

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

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

Do not place liquid containers on top of the projector.

- If water spills onto the projector or gets inside it, fire or electric shocks could result.
- If any water gets inside the projector, contact an Authorised Service Centre.

Do not insert any foreign objects into the projector.

• Do not insert any metal objects or flammable objects into the projector or drop them onto the projector, as doing so can result in fire or electric shocks.

Do not allow the + and - terminals of the batteries to come into contact with metallic objects such as necklaces or hairpins.

- Failure to observe this may cause the batteries to leak, overheat, explode or catch fire.
- Store the batteries in a plastic bag and keep them away from metallic objects.

Do not touch the leaked liquid from the batteries.

- If you touch the leaked liquid, it may hurt your skin. Immediately wash away the liquid with water and seek medical advice.
- If you get the leaked liquid in your eye, it may cause blindness or damage. Never rub your eye, and immediately wash away the liquid with water and seek medical advice.

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

• Electric shocks can result.

Do not use the projector in a bath or shower.

• Fire or electric shocks can result.

Do not place your skin into the light beam while the projector is being used.

• Strong light is emitted from the projector's lens. If you place directly into this light, it can hurt or damage your skin.

Do not look into the lens while the projector is being used.

- Strong light is emitted from the projector's lens. If you look directly into this light, it can hurt and damage your eyes.
- Be especially careful not to let young children look into the lens. In addition, turn off the power and disconnect the mains plug when you are away from the projector.

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

• Heated air comes out of the air outlet port. Do not place your hands or face, or objects which cannot withstand heat close to this port [allow at least 50 cm (20") of space], otherwise burns or damage could result.

Replacement of the lamp is recommended to be carried out by a qualified technician.

- The lamp has high internal pressure. If improperly handled, explosion might result.
- The lamp can easily become damaged if struck against hard objects or dropped, and injury or malfunctions may result.

When replacing the lamp, allow it to cool for at least one hour before handling it.

• The lamp cover gets very hot, and touching it can cause burns.

Before replacing the lamp, be sure to disconnect the mains plug from the mains socket.

• Electric shocks or explosions can result if this is not done.

Do not allow infants or pets to touch the remote control unit.

• Keep the remote control unit out of the reach of infants and pets after using it.

CAUTIONS

Do not cover the air inlet port or the air outlet port.

- Doing so may cause the projector to overheat, which can cause fire or damage to the projector.
- Do not place the projector in narrow, badly ventilated places such as closets or bookshelves.
- Do not place the projector on cloth or papers, as these materials could be drawn into the air inlet port.

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.

 Using the projector under such conditions may result in fire, electric shocks or plastic deterioration. The plastic deterioration may cause the falling down of the projector which is mounted on the ceiling.

Do not set up the projector in a high temperature environment, such as near a heater or in direct sunlight.

• Failure to observe this may result in fire, malfunction or plastic deterioration.

Do not set up the projector outdoors.

• The projector is designed for indoor use only.

When disconnecting the mains lead, hold the plug, not the lead.

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

Always disconnect all cables before moving the projector.

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

Do not place any heavy objects on top of the projector.

• Failure to observe this may cause the projector to become unbalanced and fall, which could result in damage or injury.

Do not short-circuit, heat or disassemble the batteries or place them into water or fire.

• Failure to observe this may cause the batteries to overheat, leak, explode or catch fire, and burns or other injury may result.

Precautions with regard to safety

When inserting the batteries, make sure the polarities (+ and -) are correct.

 If the batteries are inserted incorrectly, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Use only the specified batteries.

 If incorrect or different kind of batteries are used, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Do not mix old and new batteries.

 If the batteries are used mixing old and new, they may explode or leak, and fire, injury or contamination of the battery compartment and surrounding area may result.

Remove the used batteries from the remote control promptly.

• If you leave used batteries in the remote control for an extended period of time, it may cause liquid leaking, abnormal internal temperature rising or explosion.

If not using the projector for an extended period of time, disconnect the mains plug from the mains socket and remove the batteries from the remote control.

- If dust builds up on the mains plug, the resulting humidity may damage the insulation, which could result in fire.
- Keeping or leaving the remote control with batteries inside may cause insulation deterioration, electrical leakage or explosion which could result in fire.

Do not put your weight on this projector.

- You could fall or the projector could break, and injury may result.
- Be especially careful not to let young children stand or sit on the projector.

Disconnect the mains plug from the mains socket as a safety precaution before carrying out any cleaning.

• Electric shocks can result if this is not done.

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 may 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 lamps, and the broken pieces may 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 the replacement of the lamp unit and check the inside of the projector.

Ask an Authorised Service Centre to clean inside the projector at least once a year.

- If dust is left to build up inside the projector without being cleaned out, it can result in fire or problems with operation.
- It is a good idea to clean the inside of the projector before the season for humid weather arrives. Ask your nearest Authorised Service Centre to clean the projector when required. Please discuss with the Authorised Service Centre regarding cleaning costs.

Do not use chemical treated wipes when cleaning.

• Using chemical treated wipes may result in plastic distortion or deterioration.

We are constantly making efforts to preserve and maintain a clean environment. Please take non repairable units back to your dealer or a recycling company.

Cautions when transporting

Do not subject the projector to excessive vibration or shocks.

- The projector lens need to be handled with care.
- Cover the lens with the lens cover when transporting the projector.

Cautions when installing

Avoid setting up in places which are subject to vibration or shocks.

• The internal parts can be damaged, which may cause malfunctions or accidents.

When transporting the projector, hold the body at the bottom securely.

• Do not hold the adjuster legs or the top cover to move the projector, as this may damage the projector.

Avoid setting up in places which are subject to sudden temperature changes, such as near an air conditioner or lighting equipment.

• The life of the lamp may be shortened or the projector may be turned off. See "TEMP indicator" on page 49.

Important Information

Do not set up the projector near high-voltage power If using this projector at high elevations 1 400 -2 700 m (4 593 - 8 858 ft) sea level, set the HIGH

lines or near motors. • The projector may be subject to electromagnetic interference.

If installing the projector to the ceiling, ask a qualified technician to carry out all installation work.

- You will need to purchase the separate installation kit (Model No. ET-PKF100H, ET-PKF100S). Furthermore, all installation work is should only be carried out by a qualified technician.
- See "Ceiling mount bracket safeguards" on page 58 for the safety cable installation.

Cautions on use

In order to get the best picture quality

 Draw curtains or blinds over any windows and turn off any lights near the screen to prevent outside light or light from indoor lamps from shining onto the screen.

Do not touch the surfaces of the lens or the front glass with your bare hands.

• If the surface of the lens becomes dirty from fingerprints or anything else, this will be magnified and projected onto the screen. Moreover, when not using the projector, close the front panel cover.

Liquid crystal panel

- Do not project the same image for long periods of time, as this may remain as an afterimage on the liquid crystal panel. Display the white screen test pattern for more than an hour to remove it. See "TEST PATTERN" on page 45.
- The liquid crystal panel of the projector is built with very high precision technology to provide fine picture details. Occasionally, a few stuck pixels may appear on the screen as fixed points of blue, green or red. It is recommended to switch off the projector once and try after 1 hour later again. Please note that this does not affect the performance of your LCD.

ALTITUDE MODE to ON. See "HIGH ALTITUDE MODE" on page 44.

• Failure to observe this may result in malfunctions or the life of the lamp or the other components may be shortened.

The projector has a high pressure mercury lamp and that is characterised as follows.

- The brightness of the lamp depends on the duration of use.
- The lamp may explode or shorten the lamp life by shocks or chipping damage.
- The lamp may explode only occasionally after using the projector.
- The lamp may explode if using the projector after the instructed lamp replacement timing.
- When the lamp exploded, it emits internal smoke-like gas.
- The lamp life is depends on individual lamp characteristics, usage condition and the installation environment. Especially the consecutive use of the projector for more than 10 hours, or the frequent switching on or off may greatly affect on the lamp life.

Optical components

• It may be necessary to replace the optical components such as liquid crystal panels and polarizing plates if using the projector in a high temperature environment or in a very dusty, oily smoke or tobacco smoke environment. For more details, please contact with your dealer.

Security

Take the safety measures for use of the projector that should cover the following envisioned incidents.

- The leakage of your personal registered information.
- Dishonest operation by an untrusted third party.
- Locking out or prevent anyone else from using the projector by an untrusted third party.

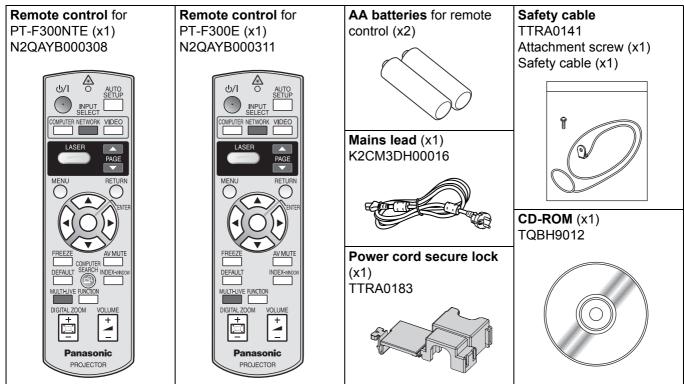
Security instruction

- The connecting network must be secured by firewall or others.
- Change your password regularly.
- Do not use password too simple to guess.
- The Authorised Service Centre will never ask you for the password.
- Do not share your password with anyone else.
- Password the projector and restrict access to authorized users only.

Precautions with regard to safety

Accessories

Make sure the following accessories are provided with your projector.



* The protectors for enclosed products, such as a plug cover or foam cartons, must be treated properly.

* Contact to an Authorised Service Centre for lost accessories.

Read this first

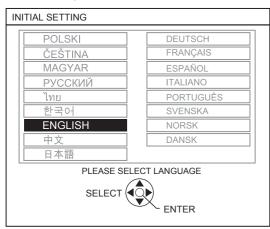
Minimum required setting screen

When you start the projection for the first time, the minimum required setting screen for projection will be displayed.

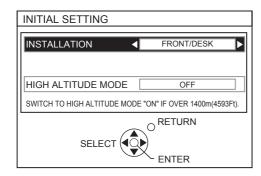
INITIAL SETTING

Select the required language setting by pressing

 then press the ENTER button.



- 2. Select the minimum required settings to start the projection.
 - Press the RETURN button to return to the language setting menu.
 - Press ▲ ▼ to move through the menu items.
 - Press ◀ ► to select the required setting.
 - Press the **ENTER** button to complete the setting and start the projection.



INSTALLATION

Select the required installation method.

| FRONT/DESK | Setting on a desk/floor and projecting from front | | | |
|---------------|---|--|--|--|
| FRONT/CEILING | Mounting on the ceiling and projecting from front | | | |
| REAR/DESK | Setting on a desk/floor and projecting from rear | | | |
| REAR/CEILING | Mounting on the ceiling and projecting from rear | | | |

HIGH ALTITUDE MODE

If you use the projector at high elevation, the **HIGH ALTITUDE MODE** setting need to be **ON** to set the fan speed high.

- OFF
- The fan speed is low.
- ON The fan speed is high.

NOTE:

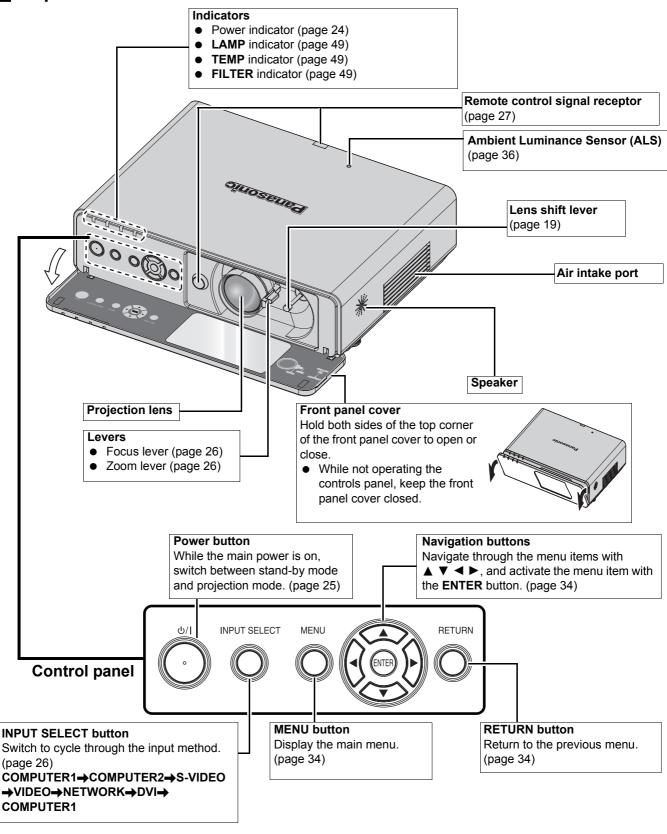
- At 1 400 2700 m (4 593 8 858 ft) above sea level, the setting must be **ON**.
- The loudness of fan noise depends on the **HIGH ALTITUDE MODE** setting.

- Once you finish the minimum requirement setting, it will not be displayed again unless the projector is initialised. See "INITIALIZE ALL" on page 45.
- You can change the each setting from the main menu. See "Menu Navigation" on page 32.

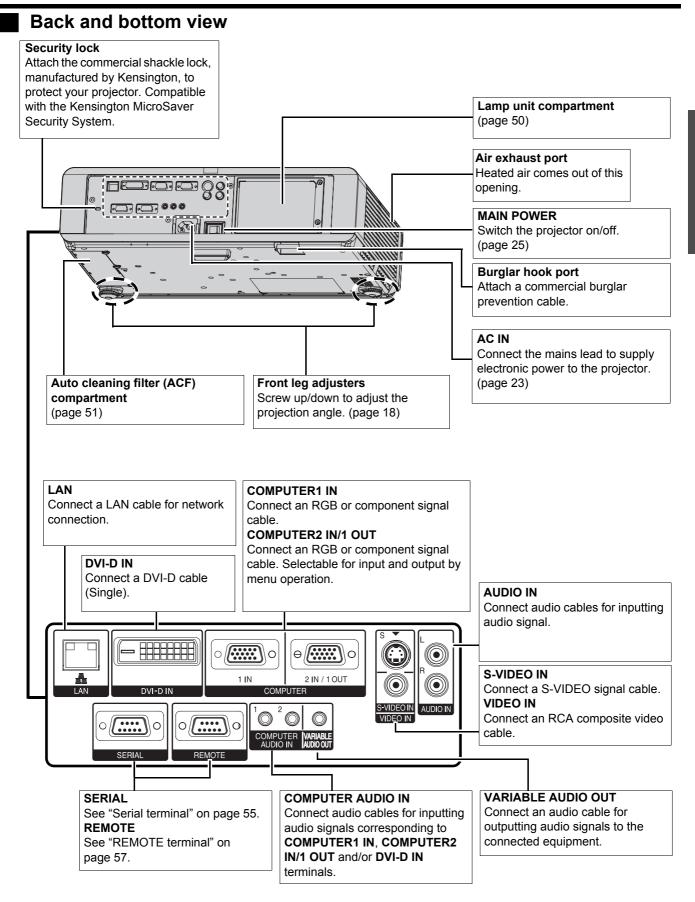
About Your Projector

Projector body





- Do not cover the ventilation openings or place anything within 50 cm (20") of them as this may cause damage or injury.
- While the projector is not in use, keep the front panel cover closed to protect the lens.



- Do not cover the ventilation openings or place anything within 50 cm (20") of them as this may cause damage or injury.
- When a cable is connected to the VARIABLE AUDIO OUT, the built-in speaker will be disabled.

About Your Projector

Remote control Attaching a hand strap Top view **Remote control indicator** You can attach a Pressing any button except the **LASER** Remote control signal favourite strap on to the emitters (page 27) button, the remote control indicator will remote control. flash. Pressing the LASER button, it will Laser pointer beam lit. emitter (page 30) Power button **少**/I While the MAIN POWER is Automatically adjust the AUTO SETUP on, switch between standby setting of SHIFT, DOT mode and projection mode. டு/ AUTO SETUP CLOCK, CLOCK PHASE (page 23) and SIGNAL SEARCH for • INPUT SELEC the projected image of COMPUTER/ Project a laser pointer. LASER COMPUTER NETWORK VIDEO DVI signal. (page 27) (page 30) Switch the required input COMPUTER signal button to select. Display the main menu. MENU (page 34) VIDEO MENI Navigate through the Return to the previous menu. RETURN menus with $\blacktriangle \lor \blacktriangleleft \triangleright$, and (page 34) activate the menu item with the ENTER button. Turn off the projection AV MUTE (page 34) temporarily. (page 29) FREEZ W MUTE Capture the projected image FREEZE COMPUTER as a frozen picture. Display the frozen image SEARCH INDEX-WINDO INDEX-window DEFAULT (page 29) while the display of subsequent images MULTI-LIVE FUNCTION Reset some of the settings DEFAULT continues. (page 29) to the factory default DIGITAL ZOOM VOLUME settings. (page 29) Control to adjust the volume +VOLUME Ĭ of the speaker. (page 31) + Assign the frequently use FUNCTION functions from the options Panasonic for shortcut. (page 30) PROJECTOR Control to change the scale DIGITAL ZOOM (Shown as PT-F300NTE) by means of digital zoom. (page 28) MULTI-LIVE NETWORK

MULTI-LIVE NETWORK PAGE COMPUTER SEARCH These buttons are for network control. See the contents of the provided CD-ROM for instructions. The **COMPUTER SEARCH** button is for PT-F300NTE only.

Battery compartment

- 1. Press the tab and lift up the cover.
- Insert the batteries according to the polarity diagram indicated inside.

- Do not drop the remote control.
- Avoid contact with liquids or moisture.
- Use manganese batteries or alkaline batteries with the remote control.
- · Do not attempt to modify or disassemble the remote control. Contact an Authorised Service Centre for repairs.
- Do not keep pressing the remote control buttons as this may shorten battery life.
- Do not point the laser in other people's eyes or stare into beam.
- See "Remote control operation" on page 27.

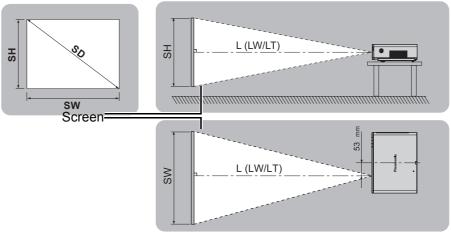


Setting up

Screen size and throw distance

You can adjust the projection size with 2.0x zoom lens. Calculate and define the throw distance as follows.

Projected image Shown as 4:3



All measurements and the calculation results below are approximate and may differ slightly from the actual measurements.

| Projection size (4 : 3) | | | | | Throw distance (L) | | | |
|-------------------------|-----------|------------|--|---------|--------------------|----------|--------|---------|
| Screen diagonal (SD) | Screen he | eight (SH) | Screen width (SW) Minimum distance (LW) Maximum distan | | | | | |
| 33" (0.84 m) | 0.50 m | (1'7") | 0.67 m | (2'2") | | | 1.9 m | (6'2") |
| 40" (1.02 m) | 0.61 m | (2') | 0.81 m | (2'7") | 1.2 m | (3'11") | 2.4 m | (7'10") |
| 50" (1.27 m) | 0.76 m | (2'5") | 1.02 m | (3'4") | 1.5 m | (4'11") | 3.0 m | (9'10") |
| 60" (1.52 m) | 0.91 m | (2'11") | 1.22 m | (4') | 1.8 m | (5'10") | 3.6 m | (11'9") |
| 70" (1.78 m) | 1.07 m | (3'6") | 1.42 m | (4'7") | 2.1 m | (6'10") | 4.2 m | (13'9") |
| 80" (2.03 m) | 1.22 m | (4') | 1.63 m | (5'4") | 2.4 m | (7'10") | 4.8 m | (15'8") |
| 90" (2.29 m) | 1.37 m | (4'5") | 1.83 m | (6') | 2.7 m | (8'10") | 5.4 m | (17'8") |
| 100" (2.54 m) | 1.52 m | (4'11") | 2.03 m | (6'7") | 3.0 m | (9'10") | 6.0 m | (19'8") |
| 120" (3.05 m) | 1.83 m | (6') | 2.44 m | (8') | 3.6 m | (11'9") | 7.2 m | (23'7") |
| 150" (3.81 m) | 2.29 m | (7'6") | 3.05 m | (10') | 4.5 m | (14'9") | 9.0 m | (29'6") |
| 200" (5.08 m) | 3.05 m | (10') | 4.06 m | (13'3") | 6.1 m | (20') | 12.0 m | (39'4") |
| 250" (6.35 m) | 3.81 m | (12'6") | 5.08 m | (16'8") | 7.6 m | (24'11") | 15.1 m | (49'6") |
| 300" (7.62 m) | 4.57 m | (14'11") | 6.10 m | (20') | 9.1 m | (29'10") | 18.1 m | (59'4") |

Calculation methods

SW (m) = SD (") x 0.0203

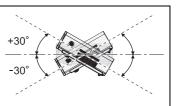
SH (m) = SD (") x 0.0152

LW (m) = 0.0305 x SD (") - 0.049

_

0.049 LT (m) = 0.0604 x SD (") - 0.05

- See page 59 for the screen size and throw distance of 16:9.
- Do not use the projector at a raised or a horizontally tilted position as it may cause malfunction of the projector.
- Make sure the projector lens surface is parallel with the screen. You can tilt the projector body approximately ± 30° vertically. Overtilting may result in shortening the component's life.
- For the best quality of the projection image, install a screen where sun light or room light does not shine directly onto the screen. Close window shades or curtains to block the lights.

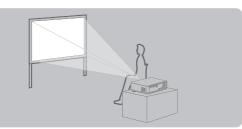


Setting up

Projection method

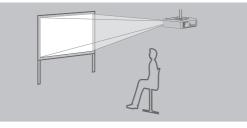
You can use the projector with any of the following 4 projection methods. To set the desired method in the projector, See "INSTALLATION" on page 44.

Setting on a desk/floor and projecting from front



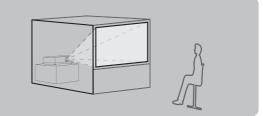
Getting Started

INSTALLATION: FRONT/DESK Mounting on the ceiling and projecting from front

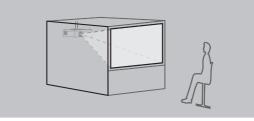


INSTALLATION: FRONT/CEILING

Setting on a desk/floor and projecting from rear



INSTALLATION: REAR/DESK Mounting on the ceiling and projecting from rear



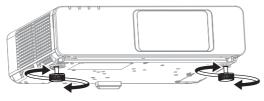
INSTALLATION: REAR/CEILING

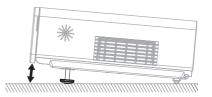
NOTE:

- A translucent screen is required for rear projection.
- When mounting the projector on the ceiling, the optional ceiling mount bracket (ET-PKF100H, ET-PKF100S) is required.
- · See "Ceiling mount bracket safeguards" on page 58.

Front leg adjusters and throwing angle

You can screw up/down the front leg adjusters to control the angle of the projector for adjusting the throwing angle. See "Positioning the image" on page 26.





- · Heated air comes out of the air exhaust port. Do not touch the air exhaust port directly.
- If keystone distortion occurs, see "KEYSTONE" on page 37.
- Screw up the adjuster legs, and an audible click will be heard as the limit.

Lens shift and positioning

If the projector is not positioned right in front of the centre of the screen, you can adjust the projected image position by moving the lens shift lever within the shift range of the lens.

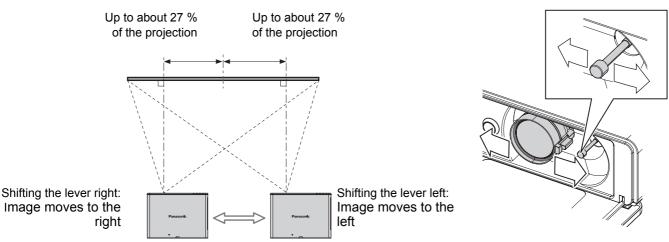
Adjusting the lens shift lever

- 1. Open the front panel cover.
- 2. Screw the lens shift lever counterclockwise to unlock.
- 3. Move the lens shift lever to adjust the projected image position.
- 4. Screw the lens shift lever clockwise to lock.

Horizontal shift

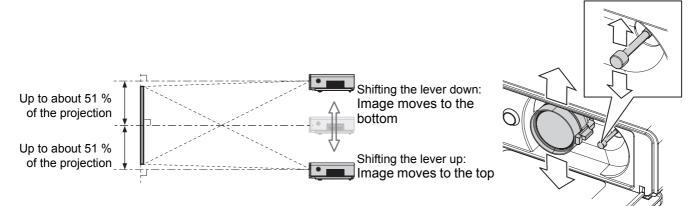
You can place the projector where the projector lens is up

to 27% horizontally off-centre from the screen and then adjust the image position with the lens shift lever.



Vertical shift

You can place the projector where the projector lens is up to 51% vertically off-centre from the screen and the adjust the image position with the lens shift lever.

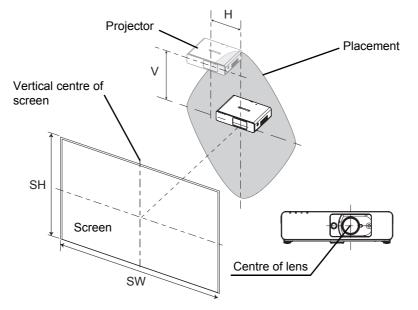


Setting up

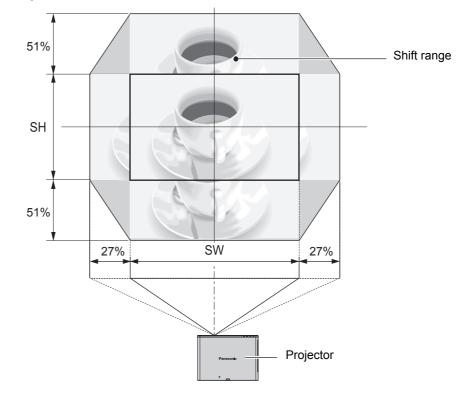
Projector location range

You can determine where to locate the screen and the projector by considering the lens shift possibilities. See "Positioning the image" on page 26.

When the screen position is fixed



When the projector position is fixed



NOTE:

- When the projector is located right in front of the screen and the lens shift lever is centred, you will get the best quality of the projection image.
- When the lens shift lever is at the vertical limit of the shift range, you cannot move the lever to the horizontal limit, likewise when the lens shift lever is at the horizontal limit of the shift range, you cannot move the lever to the vertical limit.
- When the projector is tilted and you adjust KEYSTONE, the centre of the screen and the lens need to be realigned.
- Do not attempt to pull the lens shift lever hard while adjusting.

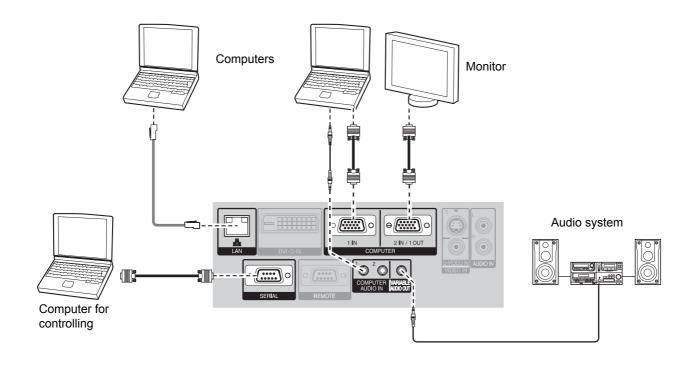
ENGLISH - 20

Connections

Before connection to the projector

- Read and follow the operating and connecting instructions of each peripheral device.
- The peripheral devices must be turned off.
- Use cables that match each peripheral device to be connected.
- If the input signal is affected by signal jitter, the projected image may have poor image quality and timebase correction is effective.
- Confirm the type of video signals. See "List of compatible signals" on page 54.

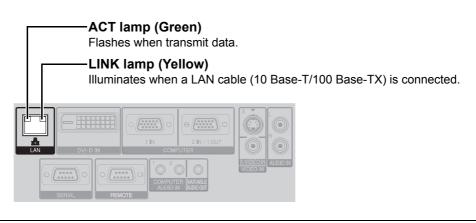
Connecting example: Computers



NOTE:

- Use COMPUTER terminals to input YPBPR signals.
- When connecting to the COMPUTER terminals, you can switch the audio input terminal between COMPUTER AUDIO IN and AUDIO IN. See "AUDIO SETTING" on page 44.
- · When COMPUTER2 SELECT in the OPTION menu is set to OUTPUT, do not connect any input signals.
- See CD-ROM contents for the LAN network connection.

LAN terminal



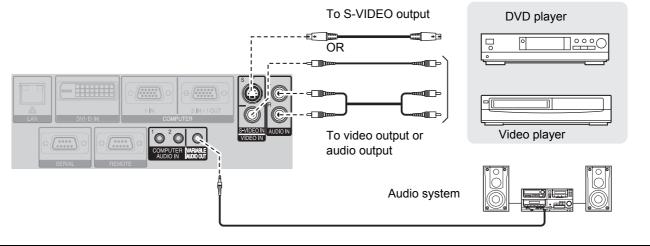
NOTE:

• Do not touch the metal parts of the LAN terminal. Failure to observe this may cause malfunction by static electricity.



Connecting example: AV equipment

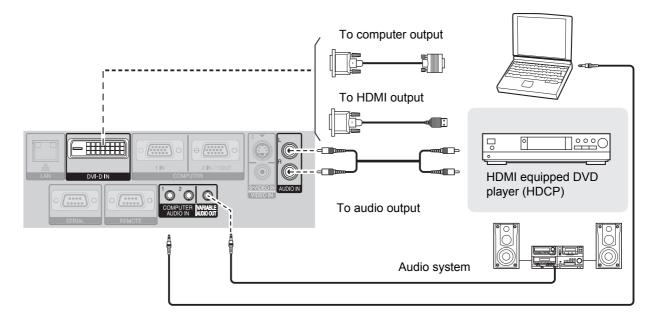
Connecting with VIDEO IN/S-VIDEO IN



NOTE:

· When you connect more than one AV equipment, switch the audio connection manually.

Connecting with DVI-D IN



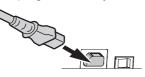
- DVI-D is single link.
- Prepare a HDMI DVI-D cable for HDMI connection.
- You may need to change the setting of the DVI EDID in DISPLAY OPTION menu with some DVI-D IN connection. See "DVI-D IN" on page 40.
- Malfunction may occur or other problems could be encountered with some kind of HDMI or DVI equipment.
- When connecting to the **DVI-D IN** terminal, you can switch the audio input terminal between **COMPUTER AUDIO IN 2** and **AUDIO IN**. See "AUDIO SETTING" on page 44.

Switching the projector on/off

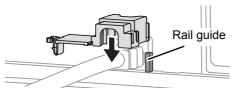
Mains lead

Connecting

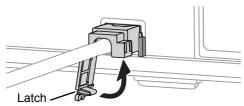
1. Make sure the shape of the mains plug and the **AC IN** terminal on the back of the projector match, then push the plug all the way in.



2. Align the side of the power cord secure lock with the side guide rail of the **AC IN** terminal of the projector and slide it in.



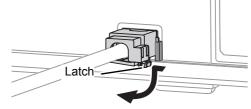
3. Place the latch to the latch catcher and press until it clicks.



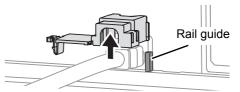
4. Connect the mains lead to a mains socket.

Disconnecting

- 1. Unplug the mains lead from the mains socket.
- 2. Depress the latch and slide the cover off.



3. Slide the power cord secure lock up along the side guide rail and remove.



- 4. Hold the plug and unplug the mains lead from the **AC IN** terminal on the back of the projector.
 - Power indicator lights in orange if the internal cooling fan is still operating by internal power supply.

NOTE:

- · Do not use other than the provided mains lead.
- Ensure all the input devices are connected and turned off before connecting the mains lead.
- · Do not force the connector as this may damage the projector and/or the mains lead.
- Dirt or dust build-up around plugs may cause fire or electrical hazards.
- Switch off the power to the projector when not in use.
- If the projector is switched on again while the internal cooling fan is still operating by the internal power supply, it may take a while to start the projection.

Direct power on function

You can start the projection with only supplying the electric power. See "INITIAL START UP" on page 43.

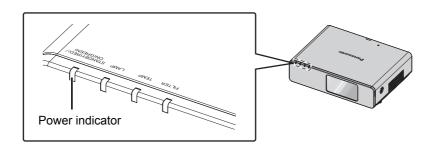
Direct power off function

You can switch off the electric power supply any time by unplugging the mains plug from the mains socket or by switching off the main power. The internal lamp cooling fan keeps operating by the internal power supply, and stops automatically when cooled enough.

Power indicator

The power indicator informs you the status of the power.

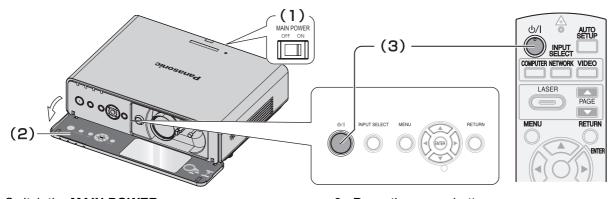
• When the LAMP or TEMP indicator is flashing, you cannot switch on the power. See "TEMP, LAMP and FILTER Indicators" on page 49.



| Indicator status | | Status | | |
|-------------------------------|----------|---|--|--|
| No illumination or flashing T | | The MAIN POWER is switched off. | | |
| | Lit | The MAIN POWER is switched on and the projector is in standby mode. When the LAMP or TEMP indicator is flashing, not available to switch on the power. | | |
| RED | Flashing | The power is switched off. (When NETWORK STANDBY in NETWORK menu or IN STANDBY MODE of AUDIO SETTING in PROJECTOR SETUP menu is set to ON). Press the power button to start the projection. | | |
| GREEN | Flashing | The power is switched on and the projector is getting ready to project. | | |
| GREEN | Lit | Projecting. | | |
| ORANGE | Lit | The power is switched off and the projector is cooling the lamp. The indicator will light or flash, and start the projection after a short time. | | |
| Flashing | | The power is switched on again when cooling the lamp and recovering to projection mode. | | |

- If the projector is switched on again while the internal cooling fan is still operating by the internal power supply, it may take a while to start the projection.
- The electric consumption in standby mode is 4 W.

Switching on the projector



- 1. Switch the **MAIN POWER** on.
 - The power indicator lights up in red.

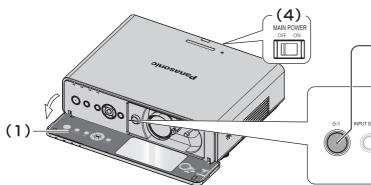
2. Open the front panel cover.

- This is not necessary in remote control operation.
- 3. Press the power button.
 - The power indicator lights up in green after flashing for a while.
 - The **STARTUP LOGO** will be displayed on the screen. See "STARTUP LOGO" on page 41.

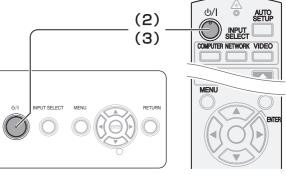
NOTE:

- When starting up the projector, some small rattling or tinkling sound may be heard, or the display may flicker for the characteristics of the lamp. Those are normal and will not affect the performance of the projector.
- When the internal cooling fan is operating, some operational sound may be heard. The loudness of the operational sound depends on the external temperature.
- If you disconnected the mains lead or switched off the **MAIN POWER** while on projecting mode, the projection will start with connecting the mains lead or switching on the **MAIN POWER**. See "INITIAL START UP" on page 43.

Switching off the projector



- Open the front panel cover.
 This is not necessary in remote control operation.
- 2. Press the power button.
 - The confirmation screen is displayed. It will disappear and return to the projection after 10 seconds without any operation.
 - To return to the projection, press any button except the power button.



- 3. Press the power button.
 - The power indicator lights up in orange while cooling the lamp, then illuminates red when is ready to switch off the **MAIN POWER**.
- Switch off the MAIN POWER on the back of the projector.

NOTE:

• You can disconnect the mains lead or switch off the **MAIN POWER** instead of following this procedure. See "INITIAL START UP" on page 43.

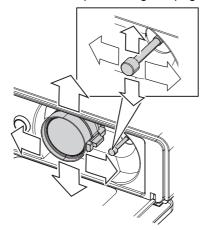
Projecting an image

Selecting the input signal

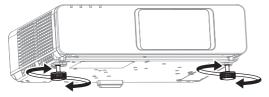
- Switch on the connected devices.
 Press the play button of the required device.
- Press the INPUT SELECT buttons to select the required input method if needed. See "Switching the input signal" on page 28.
 - The image will be projected on the screen.

Positioning the image

- 1. Open the front panel cover.
- 2. Adjust the projected image with the lens shift lever. See "Lens shift and positioning" on page 19.

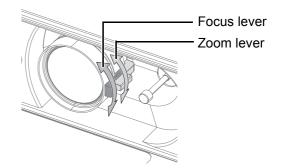


- 3. Adjust the angle of the projector.
 - Screw down the front leg adjusters and adjust the angle vertically.
 - See "Front leg adjusters and throwing angle" on page 18.



NOTE:

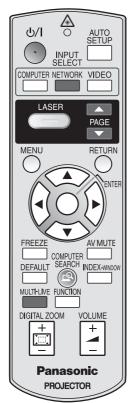
- SIGNAL SEARCH is ON as default and the signal from the connected devices is detected automatically. See "SIGNAL SEARCH" on page 41.
- 4. Adjust the focus and the projected image size.
 - Turn the focus lever and zoom lever to adjust the image.
 - You can confirm the adjusted effect with the TEST PATTERN in OPTION menu. See "TEST PATTERN" on page 45.



- Do not touch the air exhaust port as this may cause burns or injury.
- If keystone distortion occurs, see "KEYSTONE" on page 37.
- If you adjust the focus, you may need to adjust the size of the image by moving the zoom lever again.

Remote control operation

Operating range



You can operate the projector with the remote control within the remote range 15 m (49'2"), approximately \pm 30° vertically and horizontally.

Facing to the projector

Ensure the remote control emitter is facing to the remote control signal receptor on front/back of the projector and press the required buttons to operate.

Facing to the screen

Ensure the remote control emitter is facing to the screen and press the required buttons to operate the projector. The signal will be reflected off the screen. The operating range may differ due to the screen material. This function may not be effective with a translucent screen.

NOTE:

- Do not let strong light shine onto the signal receptor. The remote control may malfunction under strong light such as fluorescent.
- If there are any obstacles between the remote control and the remote control signal receptor, the remote control may not operate correctly.

(Shown as PT-F300NTE)

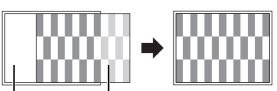
Setting up the image position automatically

 You can adjust the setting of SHIFT, DOT CLOCK and CLOCK PHASE in the POSITION menu automatically for the projected

COMPUTER signal image. With DVI signal, adjust SHIFT setting only.

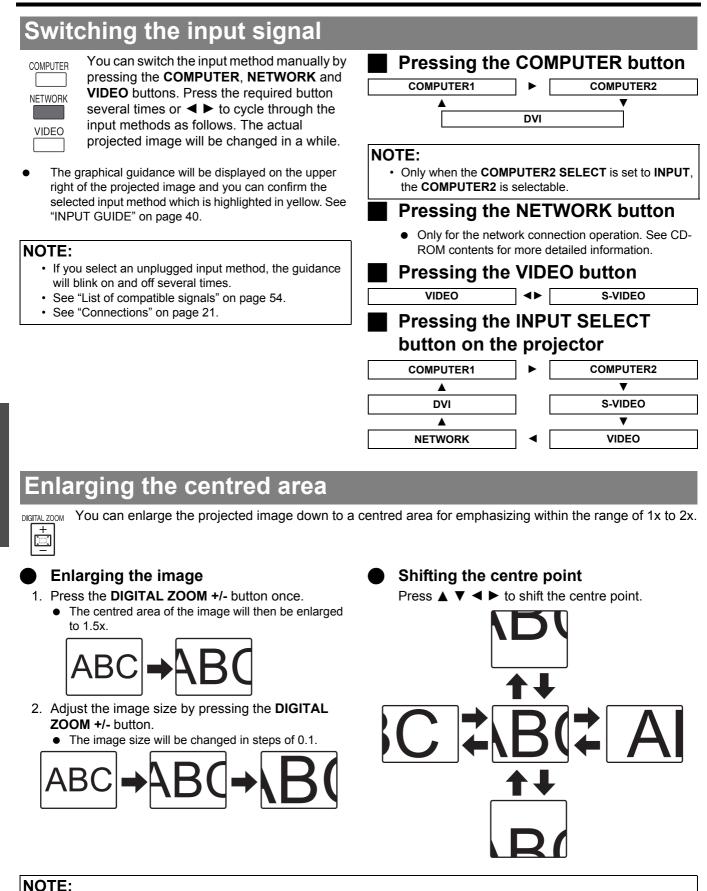
NOTE:

- If the dot clock frequency is 150 MHz or higher, **AUTO SETUP** is not effective.
- If the projected image is dark or blurred around the edge, **AUTO SETUP** may stop the processing before complete. Project a much clearer or lighter image and press the **AUTO SETUP** button again.
- When there is no signal input and SIGNAL SEARCH in DISPLAY OPTION menu is ON, the auto signal
 - detecting system will start.



Screen

Projected image



- When the **COMPUTER** signal is projected, the enlargement range will be changed to 1x to 3x. When the **FRAME LOCK** in **POSITION** menu is set to **ON**, the enlargement range is 1x to 2x. See "FRAME LOCK" on page 39.
- When the input signal is changed while the **DIGITAL ZOOM** is activated, the **DIGITAL ZOOM** will be cancelled.
- While **DIGITAL ZOOM** is activated, **FREEZE** is not available.

Capturing an image



Press the FREEZE button to capture the image and stop the audio, and you can see it as a still picture while the AV equipment are continuing.

Press the FREEZE button again to escape and return to the continuing image.

Stopping the projection



You can stop the projection and audio sound through the projector for saving electrical

power. Press the **AV MUTE** button again to escape.

Resetting to the factory default settings

DEFAULT

You can reset most of the customised settings to the factory defaults by pressing the DEFAULT button of the remote control. Display the required sub menu or the menu items, and press the **DEFAULT** button again.

• See "Main menu and Sub-menu" on page 32.

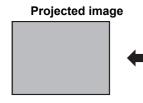
NOTE:

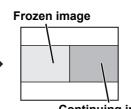
- Some menu items are not available to reset by pressing the **DEFAULT** button. Adjust each menu items manually.
- To reset all the settings to the factory defaults, see "INITIAL START UP" on page 43.

Projecting an image in INDEX-WINDOW mode

You can project an image in split 2 windows as an INDEX-WINDOW, one is frozen, stored in memory and INDEX-WINDOW displayed on the screen's left side, while the display of subsequent images continues on the right.

To escape from the INDEX-WINDOW, press the MENU or **RETURN** button.



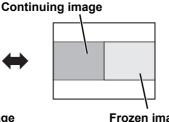


Continuing image

Switching the position

In default, the frozen image is displayed on the left and the subsequent image is displayed on the right. Press $\blacktriangleleft \triangleright$ to switch the position.



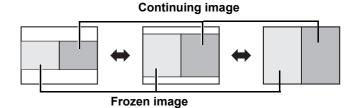


Continuing image

Frozen image

Changing the image size

Press ▲ ▼ to capture a new image and change the size in 3 ways.



NOTE:

- If you change the window size, the aspect ratio of the image is changed and becomes vertically elongated.
- When vertically enlarged, some signals image with THROUGH aspect ratio setting will not be displayed correctly.

Capturing a new image While in INDEX-WINDOW mode, press the **ENTER** button to capture a new image and the frozen image window will be updated in a while.

NOTE:

· When capturing a quick moving picture, perform several times to get a stabled image.

Using an assigned function

You can assign a selected function to the FUNCTION button. Following functions are assignable.

| Options | Functions | Refer |
|---------------|--|-------|
| DISABLE | Deactivate the FUNCTION button. | - |
| ASPECT | Display the ASPECT menu. | 38 |
| PICTURE MODE | Display the PICTURE MODE menu. | 35 |
| DAYLIGHT VIEW | Display the DAYLIGHT VIEW menu. | 36 |

Using the laser pointer

You can highlight items on the screen with the red laser pointer while projecting the image in presentations or visual demonstrations as an eye-catching pointing device.

Hold down the **LASER** button to go on the laser pointer and release to go off.

Disable the LASER button

You can disable the **LASER** button for an accidental operation.

- 1. Open the battery compartment cover of the remote control.
- 2. Slide the switch tab.
- 3. Close the battery compartment cover of the remote control.
 - See "Battery compartment" on page 16.

NOTE:

LASER

 If you press the disabled LASER button, the alert "LASER POINTER IS DISABLED." will be displayed on the screen. While the menu is displaying, the alert will not be displayed. NOTE:

• See "FUNCTION BUTTON" on page 44.

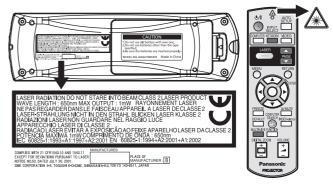
Top view



• Deactivating switch

Laser pointer beam emitter

Cautions



(Shown as PT-F300NTE)

CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- · The laser pointer should never be projected directly into the eyes of a person or animal.
- Do not aim the laser at reflective surfaces.
- Do not allow children to use laser pointer.
- Never look directly into the laser beam.
- The laser pointer is not effective with translucent screens.
- · Please read the cautions on the remote control.
- This is a Class 2 laser product.

Controlling the volume of the speaker

| VOLUME | |
|--------|--|
| + | |
| | |
| | |

You can control the volume of the built-in speakers and output sound. Press "+" side of the

VOLUME button to increase and "-" to decrease.

NOTE:

• Power consumption can be reduced if the volume level is lowered.

Menu Navigation

Main menu and Sub-menu

The menu options are structured and categorised. You can navigate through the menu with $\blacktriangle \lor \checkmark \lor \flat$ buttons. See "Menu Navigation" on page 32.

- The underlined items are factory default settings.
- Some default settings vary by the selected input signal.
- Sub-menu items vary according to the selected input signal.
- Some settings are adjustable without any signals.

PICTURE

| PICTURE MODE | | page 35 |
|--|---------------------|-------------|
| NATURAL | STANDARD | page 00 |
| DYNAMIC | BLACKBOAR | D |
| | | nogo 25 |
| (Default: 0) | | page 35 |
| BRIGHTNESS | | nogo 25 |
| (Default: 0) | | page 35 |
| | | page 25 |
| (Not available with NETV | | page 35 |
| (Not available with NETV (Default: 0) | | lion) |
| TINT | | page 35 |
| (Not available with NETV | VORK connec | |
| (Default: 0) | | |
| SHARPNESS | | page 35 |
| (Default: 0) | | |
| WHITE BALANCE | RED ^{*1} | page 35 |
| (Default: 0) | | page ee |
| WHITE BALANCE | GREEN ^{*1} | page 35 |
| (Default: 0) | | |
| WHITE BALANCE | BLUE ^{*1} | page 35 |
| (Default: 0) | | |
| COLOR TEMPERA | TURE | page 36 |
| <u>DEFAULT</u> LOW | HIGH | |
| DAYLIGHT VIEW | пібп | page 36 |
| | | page 30 |
| OFF | ON | |
| DIGITAL CINEMA | REALITY | page 36 |
| <u>ON</u> | OFF | |
| NOISE REDUCTIO | | page 36 |
| | ON | |
| TV-SYSTEM | | page 36 |
| <u>AUTO</u> NTSC | NTSC 4.43 | |
| PAL | PAL-M | |
| PAL-N | SECAM | |
| RGB/YPBPR | | page 36 |
| <u>AUTO</u> RGB | YPBPR | |
| *1 Available with still image of CC | | ignals only |

*1. Available with still image of COMPUTER/DVI signals only

| KEYSTONE | | | page 37 |
|-----------------------|-------|---------------|---------|
| (Default: 0) | | | |
| SHIFT | | | page 37 |
| (Not available with I | NETWO | ORK conne | ection) |
| H (Default: 0) | | V (Default: 0 |) |
| DOT CLOCK | | | page 37 |
| (Signals from COMI | PUTER | only) | |
| (Default: 0) | | | |
| CLOCK PHAS | E | | page 37 |
| (Signals from COMI | PUTER | only) | |
| (Default: 0) | | | |
| OVER SCAN | | | page 37 |
| (Not available with I | NETWO | ORK conne | ection) |
| ASPECT | | | page 38 |
| AUTO 4 | :3 | 16:9 | S4:3 |
| THROUGH | | | |
| FRAME LOCK | | | page 39 |
| (Signals from COMI | PUTER | only) | |
| <u>OFF</u> | | ON | |
| | | | |

| DEUTSCH | POLSKI |
|-----------|----------------|
| FRANÇAIS | ČEŠTINA |
| ESPAÑOL | MAGYAR |
| ITALIANO | РҮССКИЙ |
| PORTUGUÊS | ไทย |
| SVENSKA | 한국어 |
| NORSK | <u>ENGLISH</u> |
| DANSK | 中文 |
| | 日本語 |
| | |

DISPLAY OPTION

| ON-SCREEN DISPLAY | | page 40 |
|-------------------------------------|-----------|---------|
| INPUT GUIDE | | |
| <u>DETAILED</u> OFF | SIMPLE | |
| OSD DESIGN <u>TYPE1</u> TYPE3 | TYPE2 | |
| WARNING MESSAG | E | |
| <u>ON</u> | OFF | |
| DVI-D IN | | page 40 |
| DVI EDID | | |
| EDID1 | EDID2(PC) | |
| DVI SIGNAL LEVEL | | |
| <u>0-255:PC</u> | 16-235 | |
| | | |

| STARTUP LOGO | | page 41 |
|---------------------------------------|---------------------|---------|
| <u>ON</u> USER | OFF | |
| AUTO SETUP | | page 41 |
| AUTO | BUTTON | |
| SIGNAL SEARCH | | page 41 |
| ON | OFF | |
| BACK COLOR | | page 41 |
| BLUE | BLACK | |
| WIDE MODE | | page 41 |
| <u>AUTO</u> ON | OFF | |
| SXGA MODE | | page 41 |
| <u>SXGA</u> | SXGA+ | |
| OTHER FUNCTIO | NS | page 42 |
| AUTO SETUP AV MUTE DIGITAL ZOOM | FREEZE INDEX-WIN | DOW |



PROJECTOR SETUP

| STATUS | page 43 |
|-----------------|---------------------|
| SIGNAL | |
| NAME | FREQUENCY |
| RUNTIME | |
| PROJECTOR | LAMP |
| REMAINING FILT | ER |
| QUANTITY | APPROX.TIME |
| COMPUTER2 SEI | _ECT page 43 |
| <u>INPUT</u> | OUTPUT |
| NO SIGNAL SHU | T-OFF page 43 |
| DISABLE | 1 0 |
| 15 MIN. 20 MI | N. 25 MIN. 30 MIN. |
| 35 MIN. 40 MI | N. 45 MIN. 50 MIN. |
| 55 MIN. 60 MI | Ν. |
| INITIAL START U | P page 43 |
| LAST MEMORY | ON STANDBY |
| INSTALLATION | page 44 |
| FRONT/DESK | FRONT/CEILING |
| REAR/DESK | REAR/CEILING |
| HIGH ALTITUDE | MODE page 44 |
| <u>OFF</u> | ON |
| EMULATE | page 44 |
| DEFAULT | D3500 |
| D4000 | D/W5K series |
| L730 | L780 |
| L735 | L785 |
| LB/W80 | <u></u> |
| FUNCTION BUTT | |
| DISABLE | ASPECT |
| PICTURE MODE | DAYLIGHT VIEW |
| | |

| AUDIO SETTING | | page 44 |
|-------------------------------------|----------|---------|
| VOLUME (Default: 2 | 20) | |
| BALANCE (Default: | 0) | |
| IN STANDBY MOD | E | |
| <u>OFF</u> | ON | |
| AUDIO IN SELECT | | |
| DVI | | |
| COM.AUDIO IN 2 | AUDIO IN | |
| COMPUTER1 | | |
| COM.AUDIO IN 1 | AUDIO IN | |
| COMPUTER2 | | |
| COM.AUDIO IN 2 | AUDIO IN | |
| TEST PATTERN | | page 45 |
| INITIALIZE ALL | | page 45 |
| FILTER COUNTER | RESET | page 45 |

SECURITY

| PASSWORD | | page 46 |
|--------------|-----------|---------|
| <u>OFF</u> | ON | |
| PASSWORD CH | IANGE | page 46 |
| TEXT DISPLAY | | page 46 |
| OFF | ON | |
| TEXT CHANGE | | page 46 |
| MENU LOCK | | page 47 |
| OFF | ON | |
| MENU LOCK PA | ASSWORD | page 47 |
| CONTROL DEV | ICE SETUP | page 47 |
| CONTROL PAN | EL | |
| ENABLE | DISABLE | |
| REMOTE CONT | ROLLER | |
| ENABLE | DISABLE | |
| | | |

| | page 48 |
|---|-----------|
| WIRED LAN | |
| WIRELESS LAN (PT-F300NTE only) | |
| NAME CHANGE PASSWORD | |
| PASSWORD CHANGE | |
| NETWORK STANDBY | |
| NETWORK CONTROL | |
| LIVE MODE CUT IN | |
| COMPUTER SEARCH | |
| MULTI-LIVE STATUS | |
| INITIALIZE | |
| See CD-ROM contents for more detailed inf | ormation. |

Navigating through the menu

Displaying the Main menu

MENU Press the **MENU** button to display the main menu and the operating guidance.

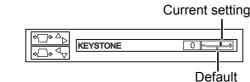
| Main menu | Sub-menu | Current settings |
|------------------|------------------------|---------------------|
| | PICTURE MODE | STANDARD |
| POSITION | CONTRAST | 0+ |
| (LANGUAGE | BRIGHTNESS | 0 |
| G DISPLAY OPTION | COLOR | 0 |
| PROJECTOR SETUP | TINT | 0 |
| of SECURITY | SHARPNESS | 0 - + |
| -B-NETWORK | COLOR TEMPERATURE | DEFAULT |
| | DAYLIGHT VIEW | AUTO |
| | DIGITAL CINEMA REALITY | ON |
| ORETURN | NOISE REDUCTION | OFF |
| | TV-SYSTEM | AUTO |

Operating guidance

Contains the required buttons to adjust the settings.

Adjusting with the bar scale items

The triangle mark under the bar indicates factory default setting and the square indicates the current setting.



Returning to the previous menu

RETURN Press the **MENU** or **RETURN** button to return to the previous menu. Press repeatedly to escape from the menu mode and return to the projection.

Operating procedure

- 1. Press ▲ ▼ to scroll to the required main menu item and press the **ENTER** button to select.
 - The selected item is highlighted in orange and the sub-menu is displayed on the right.
 - See "Main menu and Sub-menu" on page 32.

| PICTURE | KEYSTONE | 0 + |
|------------------|-----------|-----|
| | SHIFT | |
| LANGUAGE | OVER SCAN | |
| B DISPLAY OPTION | ASPECT | 4:3 |
| PROJECTOR SETUP | | |
| SECURITY | | |
| | | |
| | | |
| | | |
| | | |

- 2. Press ▲ ▼ to scroll to the required sub-menu item and press ◀ ► or the ENTER button to adjust.
 - The selected item is called up and the other menu items disappear from the screen. Called up item will be disappear after 5 seconds and return to the menu mode.
 - If there is a lower level, the next level will be displayed.

| | KEYSTONE | ↓ 0 - <u>+</u> + ▶ |
|------------------|-----------|---|
| | SHIFT | |
| (LANGUAGE | OVER SCAN | |
| G DISPLAY OPTION | ASPECT | 4:3 |
| PROJECTOR SETUP | | |
| SECURITY | | |
| Retwork | | |
| | | |
| | | |

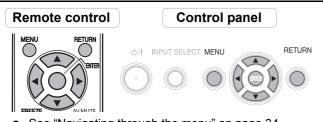
- 3. Press ◄ ► to adjust or set the selected item.
 For items using a bar scale, the current settings are
 - For items using a bar scale, the current settings are displayed on the left of the bar scale.
 - You can cycle through the options of an item by pressing ◀ ►.

| \$ 7¢ A | | |
|---------|----------|------------|
| | KEYSTONE | 0 - |
| ¢∐¢ ∨⊽ | | |

4. Press the **MENU** or **RETURN** button to return to the previous menu.

- · See "Resetting to the factory default settings" on page 29 to reset each menu item.
- · See "INITIALIZE ALL" on page 45 to reset all the settings.

PICTURE menu



See "Navigating through the menu" on page 34.See "Main menu and Sub-menu" on page 32.

PICTURE MODE

Depending on the projection environment, you can use these preset parameter settings to optimise image projection. Press $\blacktriangleleft \triangleright$ to cycle through the options.

| | , , , | |
|-----------------------|---|--|
| STANDARD | Setting for a general image | |
| DYNAMIC | Bright and sharp setting | |
| BLACKBOARD | Setting for when projecting on a blackboard | |
| NATURAL ^{*1} | Reproduces the original colour of the image | |
| CINEMA ^{*2} | Setting for a cinema type movie | |

*1. Selectable when sill image is displayed.

*2. Selectable when moving image is displayed.

NOTE:

 It may take for a while until the image stabilised in the selected mode.

CONTRAST

You can adjust the contrast of the projected image. Adjust the **BRIGHTNESS** in advance if necessary.



BRIGHTNESS

You can adjust the brightness of the projected image.



COLOR

You can adjust the colour saturation of the projected image. (Available with **VIDEO/S-VIDEO/YPBPR/RGB** movie/**DVI** movie signals only)



TINT

You can adjust the skin tone in the projected image. (Available with VIDEO/S-VIDEO/YPBPR/RGB movie/ DVI movie signals only)



SHARPNESS

You can adjust the sharpness of the projected image.

Less sharp More sharp

WHITE BALANCE RED

You can adjust the white balance more properly in red colour temperature by pressing $\blacktriangleleft \triangleright$. (Available with **RGB/DVI** still signals only)

WHITE BALANCE GREEN

You can adjust the white balance more properly in green colour temperature by pressing ◀ ►. (Available with **RGB/DVI** still signals only)

WHITE BALANCE BLUE

You can adjust the white balance more properly in blue colour temperature by pressing ◀ ►. (Available with **RGB/DVI** still signals only)



PICTURE menu

COLOR TEMPERATURE

You can adjust the white balance of the projected image.

- LOW More bluish
- DEFAULT Balanced white
- HIGH More reddish

DAYLIGHT VIEW

You can keep the projected image bright and vivid even in well-lit rooms where the ambient light sources cannot be controlled, such as when a door opens or when window coverings fail to block out sunlight.

• **AUTO**: Automatic adjustment

Active

- ON:
- OFF:
- Deactive

NOTE:

- · Do not cover the Ambient Luminance Sensor (ALS) of the projector. See "Ambient Luminance Sensor (ALS)" on page 14.
- · AUTO is not available when INSTALLATION setting in **OPTION** menu is set to **REAR/DESK** or REAR/CEILING.

DIGITAL CINEMA REALITY

You can improve the vertical resolution of a 2-2 or 2-3 pulldown movie. Press ◀ ► to select the required setting. (Not available with **NETWORK** signals)

- OFF Deactive
- ON Active

NOTE:

Available with 480i, 576i, 1 080/60i and 1 080/50i only.

NOISE REDUCTION

You can switch the automatic noise reduction system on/ off. Press \blacktriangleleft \blacktriangleright to select the required setting.

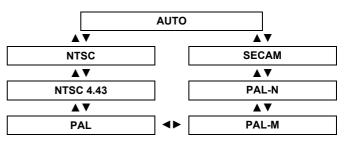
- ON: Automatic noise reduction
 - OFF: No noise reduction

NOTE:

· Applying noise reduction may affect image quality.

TV-SYSTEM

When the video signal is changed, the setting switches automatically. You can switch the setting manually to match the video data. Press ◀ ► to cycle through the options. (Available with S-VIDEO/VIDEO only)



NOTE:

AUTO setting will select from NTSC/NTSC 4.43/PAL/ PAL60/PAL-M/PAL-N/SECAM.

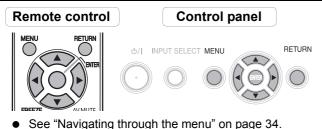
RGB/YPBPR

The projector will detect the signal from the **COMPUTER** terminals if the signal is RGB or YPBPR. You can turn off the automatic detecting system and switch between RGB and YPBPR manually.

- AUTO:
- Automatic detecting system
- RGB:
- Project as RGB signal
- YPBPR: Project as YPBPR signal

- Available with VGA60, 480i, 576i, 480p, 576p, 1 080/60i, 1 080/50i, 720/60p, 720/50p, 1 080/60p, 1 080/50p only.
- When the input signal is not selected correctly with • AUTO setting, select RGB or YPBPR manually.

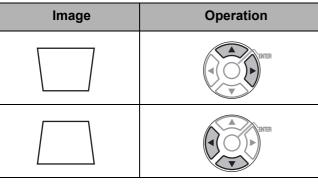
POSITION menu



See "Main menu and Sub-menu" on page 32.

KEYSTONE

If the projector is aligned non-perpendicularly to the screen, or if the projection screen has an angled surface, you can correct keystone.



NOTE:

- You can correct the distortion ± 30 degrees from the plane. For a better quality image, installing the projector with a minimum of distortion is recommended.
- Some distortion may be retained for lens shift adjustment.
- The distortion of the main menu screen is not correctable.
- The result of the keystone correction will affect the aspect ratio and the size of the image.

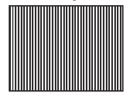
SHIFT

You can move the projected image for fine adjustment. Press $\blacktriangleleft \triangleright$ to move horizontally and $\blacktriangle \checkmark$ vertically. (Not available with **NETWORK** signals)



DOT CLOCK

If you have interference patterns of the projected image, which is sometimes referred to as moire or noise, you can minimize it by pressing ◀ ► to adjust the clock frequency. (Available with signals of **RGB/DVI** still only)



NOTE:

- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- DOT CLOCK needs to be adjusted before adjusting the CLOCK PHASE.

CLOCK PHASE

If you require further adjustment for the same reason as the **DOT CLOCK** adjustment, you can fine adjust the timing of the clock. Press ◀ ► to adjust. (Available with signals of **RGB/DVI** still only)

NOTE:

• If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.

OVER SCAN

If the 4 edges of an image is partly dropped, you can use this function to adjust and project it properly. (Not available with signals of **NETWORK**)

- Shrink
- ► Enlarge

POSITION menu

ASPECT

You can switch the aspect ratio manually when needed. Press \blacktriangleleft \blacktriangleright to cycle through the options.

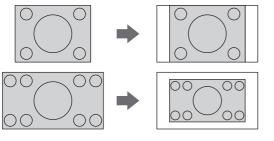
Aspect ratio options

AUTO

Signals which contains an identifying aspect signal will be detected and automatically project the image in proper ratio. (NTSC and 525i (480i) signals only)

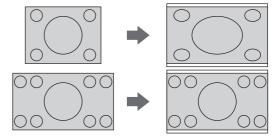
4:3

When a 4:3 or 5:4 signal is detected, the image will be projected without any change, and other signals will be adjusted to 4:3 with preserving original ratio.



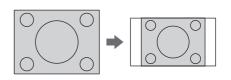
16:9

When a16:9 is input, the image will be projected without any change, and other signals will be adjusted to 16:9 without preserving original ratio.



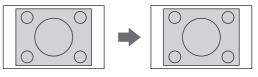
S4:3

The input signal will be sized down 75 % and projected. When projecting 4:3 signal on to a 16:9 screen, it will be sized down 75 % with preserving original ratio.



THROUGH

The image will be projected without any size adjustment.



NOTE:

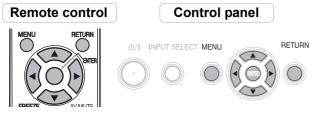
- If you project an image with an unmatched aspect ratio, the image may distort or some portions may be cropped. Select an aspect ratio which preserves the intention of the image creator.
- The order of ASPECT types is defined not only by the input method but also by the input signals. See "List of compatible signals" on page 54.
- If you project a copyrighted image enlarged or distorted by using **ASPECT** function in commercial use in a public place, such as a restaurant or hotel, you might infringe on the copyright of the creator which is protected by copyright law.
- Selectable aspect ratio options vary according to input signals.

FRAME LOCK

If the projected image is degraded, you can activate **FRAME LOCK** for synchronisation. Press ◀ ► to select the required option. (Available with **RGB/DVI** signals only)

- OFF Deactive Active
- ON

DISPLAY OPTION menu



- See "Navigating through the menu" on page 34.
 See "Main menu and Sub-menu" on page 32.
- See "Main menu and Sub-menu" on page 32.

ON-SCREEN DISPLAY

INPUT GUIDE

When you change the input method, the guidance appears in the upper right corner of the screen. The following display methods are available. Press

 \blacktriangleleft **b** to cycle through the options.

| Options | Function |
|----------|--|
| DETAILED | Display the input method by graphic. The INPUT GUIDE will go out after 3 seconds without any operation. If you select any COMPUTER or DVI terminal which has no signal, the computer connection guidance will be displayed. See "Computer connection guidance" on page 56. |
| SIMPLE | Display the input method by text. The INPUT GUIDE will go out after 3 seconds without any operation. |
| OFF | Turn off the guidance. |

OSD DESIGN

You can change the background colour of the menu. Press $\blacktriangleleft \triangleright$ to select the required option.

| TYPE1 | Semi transparent black |
|-------|----------------------------|
| TYPE2 | Solid blue |
| TYPE3 | Semi transparent dark blue |

WARNING MESSAGE

You can let display only the minimum warning messages and hide others.

- **ON** All of the warning messages will be displayed.
- **OFF** Only the minimum warning messages will be displayed.

NOTE:

 When the WARNING MESSAGE is set to OFF, use the projector with utmost care due to the most of warning messages will not be displayed.

DVI-D IN

NOTE:

- The DVI-D IN setting for the best quality depends on the output equipment. Refer the instructions of the connected equipment.
- **DVI** signal is very sensitive, and malfunction may occur or other problems could be encountered with some **DVI** equipment.

DVI EDID

You can switch the EDID setting and signal level for variable **DVI** signals.

- EDID1 480p, 576p, 1 080/60i, 1 080/50i, 720/60p, 720/50p, 1 080/60p, 1 080/50p
- EDID2(PC) VGA60, SVGA60, XGA60, XGA70, XGA75, WXGA768/60, SXGA60, SXGA60, SXGA60+, WXGA800/60

DVI SIGNAL LEVEL

- **0-255:PC** (PC scale) For connecting to a
- 16-235
- (FC scale) For connecting to a computer via **DVI-D IN** terminal.
 (TV scale) For connecting to AV equipment via **DVI-D IN** terminal, such as DVI HDMI connection.

STARTUP LOGO

You can switch the logo on/off that is displayed when starting up the projector. Press $\blacktriangleleft \triangleright$ to select the required option. STARTUP LOGO will be displayed for 30 seconds.

- ON Active
- OFF
- Deactive • USER Display the original text

Editing the original text

If you select USER, you can display the 2 lines of original text up to 40 characters in 1 line instead of the logo.

| TE) | ΧT | Cŀ | ΗA | NG | ΞE | | | | | | | | | |
|-----|----|----|----|----|----|---|---|---|---|----|-----|----|-----------|---|
| | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | 4 |
| A | В | С | D | Е | F | G | Н | I | J | Κ | L | Μ | ALL DELET | |
| N | 0 | Ρ | Q | R | S | Т | U | V | W | Х | Υ | Ζ | | |
| a | b | С | d | е | f | g | h | i | j | k | Ι | m | | |
| n | 0 | р | q | r | S | t | u | ۷ | W | Х | у | Ζ | | |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | SF | PAC | CE |] | |
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| | ì | | ~ | (|) | < | > | [|] | { | } | , | . : ; | |
| | | [| | | ٥ł | < | | | | C/ | ٩N | CE | EL | |

- 1. Select USER and press ENTER.
- 2. Select the required line to enter or edit the original text, and press the ENTER button.
- 3. Enter the characters and repeat until finish the line.
 - Use ▲ ▼ ◀ ► to specify the location of the required character, and press the ENTER button.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the DEFAULT button to delete the last entered character or indicated with the cursor in the text line.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press $\mathbf{\nabla}$ to select a character.
- 4. Select **OK** and press the **ENTER** button to set the entered text in a box.
 - Press ▼ and edit the TEXT2 if you need to, and repeat the step 3.

AUTO SETUP

You can turn off the AUTO SETUP button function for when the COMPUTER signal is detected.

- When the projector detects a AUTO COMPUTER or DVI signal, adjust the projected image position automatically for SHIFT, SIGNAL SEARCH, DOT CLOCK and CLOCK PHASE.
 - BUTTON Only when the AUTO SETUP button is pressed, the projected image position will be adjusted for DOT CLOCK and CLOCK PHASE. See "Remote control" on page 16.

NOTE:

Usually the recommended setting is AUTO.

SIGNAL SEARCH

You can turn off the auto signal detecting system.

- ON
- Detect the input signal from the terminals and project the image.
- OFF

NOTE:

 SIGNAL SEARCH is not available when any input signal is projecting.

Deactive

Usually the recommended setting is ON.

BACK COLOR

You can choose a **BLUE** or **BLACK** screen for when the projector is idle. Press \blacktriangleleft \blacktriangleright to select the required option.

WIDE MODE

When projecting WIDE signals, switch to ON to display the image in well adjusted size. Automatic detective system

 AUTO OFF

•

- For 4:3 signals
- ON For WIDE signals
 - (16:9, 16:10 and 15:9)

SXGA MODE

You can switch the projection mode between SXGA+ and **SXGA** for SXGA signals. Press ◀ ► to select the required option.

Smaller setting

- SXGA
 - SXGA+ Larger setting

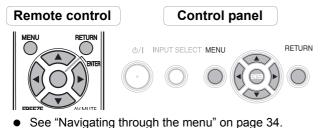
<u>Settings</u>

OTHER FUNCTIONS

From menu operation, you can apply to the functions, which are only for the remote control.

| Menu items | Refer |
|--------------|---|
| AUTO SETUP | See page 27. |
| FREEZE | See page 29. |
| AV MUTE | See page 29. |
| INDEX-WINDOW | See page 29. |
| DIGITAL ZOOM | You can enlarge the projected image. Press ◀ ► to adjust the size, and press the ENTER button. Press the RETURN button to return to the normal projection. |

PROJECTOR SETUP menu



See "Main menu and Sub-menu" on page 32.

STATUS

You can see the status of the projector about the following items.

| Items | Description | | | |
|------------------|---------------------------------|--|--|--|
| SIGNAL | | | | |
| NAME | Projecting signal name | | | |
| FREQUENCY | Projecting signal frequency | | | |
| | | | | |
| PROJECTOR | Duration of projector used time | | | |
| LAMP | Duration of lamp used time | | | |
| REMAINING FILTER | | | | |
| QUANTITY | Quantity of filter remaining | | | |

COMPUTER2 SELECT

You can switch the function of the **COMPUTER2 IN**/ **1 OUT** terminal.

- INPUTOUTPUT
- COMPUTER2 IN COMPUTER1 OUT

NO SIGNAL SHUT-OFF

You can set the timer to switch off the power of the projector after a certain period of time automatically when no signal is detected. Press $\blacktriangleleft \triangleright$ to select the required period from 15 to 60 minutes at intervals of 5 minutes.

| | DISABLE | | | |
|------------|---------|------------|--|--|
| ▲ ▼ | | ▲ ▼ | | |
| 15 MIN. | | 60 MIN. | | |
| A V | | ▲ ▼ | | |
| 20 MIN. | | 55 MIN. | | |
| ▲ ▼ | | ▲ ▼ | | |
| 25 MIN. | | 50 MIN. | | |
| ▲ ▼ | | ▲ ▼ | | |
| 30 MIN. | | 45 MIN. | | |
| ▲ ▼ | | ▲ ▼ | | |
| 35 MIN. | ▲▶ | 40 MIN. | | |

INITIAL START UP

You can select how the projector start when the mains lead is connected.

| Options | Description |
|-------------|--|
| LAST MEMORY | Start as the same mode as the last switched off. |
| STANDBY | Always start in standby mode. |
| ON | Always start in projecting mode. |

INSTALLATION

When installing the projector, select the projection method according to the projector position. Press ◀ ► to cycle through the options. See "Projection method" on page 18.

| FRONT/DESK | Setting on a desk/floor and projecting from front |
|---------------|--|
| FRONT/CEILING | Mounting on the ceiling and projecting from front |
| REAR/DESK | Setting on a desk/floor and projecting from rear |
| REAR/CEILING | Mounting on the ceiling and projecting from rear |
| | |

HIGH ALTITUDE MODE

If you use the projector at high elevation, the **HIGH ALTITUDE MODE** setting needs to be **ON** to set the fan speed high. Press ◀ ► to select the required option.

- **OFF** The fan speed is low.
 - **ON** The fan speed is high.

NOTE:

- At 1 400 m (4 593 ft) above sea level, the setting must be **ON**.
- The loudness of fan noise depends on the **HIGH ALTITUDE MODE** setting.

EMULATE

You can switch to the Panasonic past model's control commands for COMPUTER connection.

F100, FW100, F200, F300, DEFAULT FW300 models D3500 models D3500 D4000 D4000 models D5500, DW5000, D5600, D/W5K series DW5100. D5700 models L730 L520, L720 models L780 L750, L780 models L735 L735 models L785 L785 models **LB/W80** LB75, LB80, LW80 models

FUNCTION BUTTON

You can assign a certain menu function to the **FUNCTION** button as shortcut. Press $\blacktriangleleft \triangleright$ to select the required menu option, and the **ENTER** button.

| Options | Functions | Refer |
|---------------|--|-------|
| DISABLE | Deactivate the FUNCTION button. | - |
| ASPECT | Display the ASPECT menu. | 38 |
| PICTURE MODE | Display the PICTURE MODE menu. | 35 |
| DAYLIGHT VIEW | Display the DAYLIGHT VIEW menu. | 36 |

NOTE:

• Without any operation for 5 seconds, the displayed menu will be disappeared.

AUDIO SETTING

VOLUME

You can adjust the volume of the built-in monaural speaker and **VARIABLE AUDIO OUT** terminal.

- Decrease
- Increase

BALANCE

You can adjust to hear the sound played equally through both right and left from **VARIABLE AUDIO OUT**, or shift the balance so more sound plays through the left or right side.

- • More sound plays through the left side
 - More sound plays through the right side

IN STANDBY MODE

You can switch on/off the sound output in standby mode.

- OFF No sound in standby mode.
- **ON** Output audio in standby mode.

AUDIO IN SELECT

You can switch the audio output method for **COMPUTER1 IN**, **COMPUTER2 IN** and **DVI-D IN** terminals.

DVI

• COM.AUDIO IN 2

Output audio that is input to the **COMPUTER AUDIO 2**.

• AUDIO IN Output audio that is input to the AUDIO IN.

COMPUTER1

• COM.AUDIO IN 1

| Output audio that is input to the |
|-----------------------------------|
| COMPUTER AUDIO 1. |

• AUDIO IN Output audio that is input to the AUDIO IN.

COMPUTER2

• COM.AUDIO IN 2

Output audio that is input to the **COMPUTER AUDIO 2**.

AUDIO IN Output audio that is input to the AUDIO IN.

TEST PATTERN

You can use the 7 different test patterns to adjust the focus of the image. See "Lens shift and positioning" on page 19.

- 1. Press the **ENTER** button to display the test pattern 1.
- 2. Press \blacktriangleleft \blacktriangleright to select the required test pattern.
- 3. Adjust the focus with the focus lever.
- 4. Press the **MENU** or **RETURN** button to return to the previous menu, or press repeatedly to escape from the menu mode.

NOTE:

- When the projector and/or the screen is tilted, adjust the focus at the centre of the image. The upper and lower edge might be out of focus.
- When the image is distorted in keystone, adjust the **KEYSTONE** in **POSITION** menu.

INITIALIZE ALL

You can reset all of the customised settings to the factory defaults except **NETWORK**, **RUNTIME** and **REMAINING FILTER** of **STATUS** in **PROJECTOR SETUP** menu.

- 1. Press the ENTER button.
- 2. Select **OK** by pressing **◄**, then press the **ENTER** button.
- 3. Turn off the power by pressing the power button.
- 4. Switch off the **MAIN POWER** button to reset the projector.
- 5. Switch on the **MAIN POWER** button.
- 6. Press the power button.
- 7. The minimum required setting screen will be displayed.
 - See "Minimum required setting screen" on page 13.

NOTE:

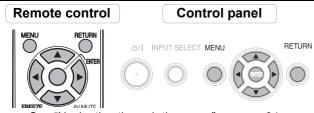
- The security system is deactivated by default and when initialised.
- When the projector is initialised, it will be reset to the factory default password operation.

FILTER COUNTER RESET

After you replaced the Auto Cleaning Filter (ACF), **REMAINING FILTER** of **STATUS** in **PROJECTOR SETUP** need to be reset to "0".

- Press the ENTER button for more than 3 seconds.
 The confirmation screen will be displayed.
- 2. Select **OK** by pressing **◄**, then press the **ENTER** button.
- 3. Display the **STATUS** and confirm the figure.

SECURITY menu



- See "Navigating through the menu" on page 34.
- See "Main menu and Sub-menu" on page 32.

Entering the SECURITY menu

Every time when you apply to the **SECURITY** menu, you will be asked to perform the password operation.

| DISPLAY OPTION | TEXT CHANGE | |
|-----------------|--------------------|-----|
| PROJECTOR SETUR | MENU LOCK | OFF |
| SECURITY | MENU LOCK PASSWOR | D |
| ; NETWORK | CONTROL DEVICE SET | JP |

When you apply to the **SECURITY** menu before you change the password to your original, perform to input the following factory default password operation.

• Press $\blacktriangle \triangleright \lor \lhd \blacklozenge \triangleright \lor \lhd$ and the ENTER button.

After you change the password

When you apply to the **SECURITY** menu after you change the password to your original in the **PASSWORD CHANGE** menu, input the original password operation.

NOTE:

- The factory default password is valid until you change the password in **PASSWORD CHANGE** menu.
- The entered password operations will appear as asterisks in the box.

PASSWORD

You can activate the security system and the password operation will be asked to perform when the projecting mode started. Unless you perform the correct password operation, all of the button controls will be disabled except the power button.

- OFF Deactive
 - ON Active
- NOTE:
 - When you activated the security system, make sure to change the password to your original for safety.
 - The factory default password is valid until you change the password in **PASSWORD CHANGE** menu.

PASSWORD CHANGE

You can change the password operation to your original.

- Press a series of button operation up to 8 as a password by using ▲ ▼ ◄ and ►.
- 2. Press the ENTER button.
- Press the exact same series of button operation you entered in the NEW password box for confirmation.
 - If a series of button operation is incorrect, you will be asked to perform again.
- 4. Press the ENTER button.

NOTE:

 The entered password operations will appear as asterisks in the box.

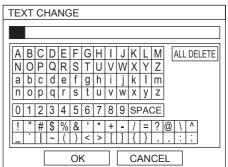
TEXT DISPLAY

You can set your original text, such as company name or URL information, to display regularly at the bottom of the projected image while projecting.

- OFF Deactive
- ON Active

TEXT CHANGE

You can enter your original text up to 22 characters for **TEXT DISPLAY**.



- 1. Enter your original text.
 - Use ▲ ▼ ◀ ► to specify the location of the required character.
 - Move the cursor to **ALL DELETE** and press the **ENTER** button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with the cursor in the text line.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 2.
- 2. Press the ENTER button.
 - The selected character will be displayed in the TEXT CHANGE box.
- 3. Repeat until finish your original text.
- 4. Select **OK** and press the **ENTER** button to set the entered text.
 - Select **CANCEL** or press the **MENU/RETURN** buttons to return to the previous menu.

MENU LOCK

You can lock the **MENU** button function and the

- oFF
 Deactivate the MENU LOCK system.

 - ON Activate the MENU LOCK system.

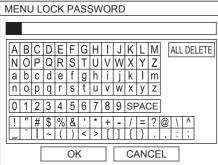
NOTE:

- The factory default password is "AAAA".
- The factory default password is valid until you change the password in MENU LOCK PASSWORD menu.
- When the projector is initialised, the password will be changed to the factory default setting, "AAAA".

MENU LOCK PASSWORD

You can change the password for **MENU LOCK** system to your original.

- 1. Press the ENTER button.
- 2. Enter the original password.
 - Use ▲ ▼ ◀ ► to specify the location of the required character, and press the ENTER button.



- 3. Repeat step 2 until you finish the text line.
 - You can enter up to 16 characters.
 - Move the cursor to **ALL DELETE** and press the **ENTER** button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with the cursor in the text line.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 2.
- 4. Select **OK** and press the **ENTER** button to set the password.

NOTE:

• If you need to restore the factory default password, contact to an Authorised Service Centre.

CONTROL DEVICE SETUP

NOTE:

- If you disable both of the control panel and remote control buttons, you cannot return to the standby mode. Use this function with utmost care.
- If you press a disabled button, you will be asked to perform the security password operation. The password screen will disappear after 10 seconds without any operation.

CONTROL PANEL

You can disable the control panel buttons on the projector body. Press \blacktriangleleft or \blacktriangleright to switch the option.

- ENABLE
 - **LE** Enable the control panel buttons.
- DISABLE
- Disable the control panel buttons. The confirmation screen will be displayed. Select **OK** by pressing the ◀, and the **ENTER** button.

NOTE:

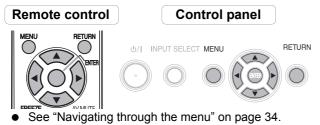
• You can enable the disabled control panel buttons by performing the control panel button operation. While pressing the **ENTER** button, press the **MENU** button for 2 seconds.

REMOTE CONTROLLER

You can disable the remote control buttons. Press \blacktriangleleft or \triangleright to switch the option.

- ENABLE
- DISABLE
- Enable the remote control buttons. Disable the remote control buttons. The confirmation screen will be displayed. Select **OK** by pressing the **4**, and the **ENTER** button.

NETWORK menu



• See "Main menu and Sub-menu" on page 32.

NOTE:

• See more detailed instructions in the contents of the **CD-ROM** which is provided with the projector.

Items in NETWORK menu

In NETWORK menu, the following items are available.

- WIRED LAN
- WIRELESS LAN (PT-F300NTE only)
- NAME CHANGE
- PASSWORD
- PASSWORD CHANGE
- NETWORK STANDBY
- NETWORK CONTROL
- LIVE MODE CUT IN
- COMPUTER SEARCH
- MULTI-LIVE
- STATUS
- INITIALIZE

NOTE:

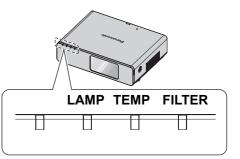
 When you activated the security system in SECURITY menu, you need to perform the security password operation to initialise network settings.

TEMP, LAMP and FILTER Indicators

Managing the indicated problems

If a problem should occur with the projector, the **TEMP**, **LAMP** and/or **FILTER** indicators will inform you. Manage the indicated problems as follow.

- 1. Confirm the status of all indicators and projector, and switch off the projector in proper way.
- 2. Find out the cause of the problem by status of the **TEMP**, **LAMP** and/or **FILTER** indicators.
- 3. Follow the instruction for each indication below and solve the problem.
- 4. Turn on the projector in the correct way and confirm the indicator is not indicating a problem any longer.



| NOTE: If no problem is found or the problem remains, do not turn on the projector. Instead contact an Authorised Service Centre. | | | | | | |
|---|---|--|---|--|--|--|
| LAMP indicator | | | | | | |
| Indicator | Illuminating red | Flashing red | | | | |
| Problem | RUNTIME of STATUS in the PROJECTOR SETUP menu has reached 5 000 hours. | LAMP circuit failure, abnormal function or lamp unit is damaged. | | | | |
| Cause | Lamp unit will run out soon and needs to be replaced. | The MAIN POWER is switched on again before the lamp unit is cooled enough. | Lamp circuit failure, abnormal function. | Lamp unit is damaged. | | |
| Remedy | See "Replacing the Lamp unit" on page 50. | Let the lamp unit cool down and turn on the MAIN POWER after | Contact an Authorised Service Centre. | See "Replacing the Lamp unit" on page 50. | | |

TEMP indicator

| Indicator | Illuminating red while projecting and the alert will be displayed. Flashing red and power is turned off | | | | |
|-----------|---|---|---|--|--|
| Problem | The temperature inside and/or outside the projector is abnormally high. | | | | |
| Cause | The ventilation openings are covered.The room temperature is too high.The projector is located at high elevations (above 1 400 - 2 700) | | | | |
| Remedy | Remove the object(s) from the ventilation openings or clear around the projector. | Reinstall the projector in temperature controlled place. See page 60. | Turn on the projector ^{*1} and set the HIGH ALTITUDE MODE to ON . See page 44. | | |

*1. The projector will perform only 2 minutes with OFF setting at high elevation.

FILTER indicator

When the FILTER indicator is flashing green, the Auto Cleaning Filter (ACF) is normally rolling up.

90 seconds.

| Indicator | Illuminating red | Flashing red | Flashing orange | Illuminating orange |
|-----------|--|---|---|---|
| Problem | REMAINING FILTER has turned red. See page 43. | Detect no ACF or abnormal ACF. | The ACF cannot operate properly. | REMAINING FILTER has turned yellow. See page 43. |
| Cause | ACF has been run out. | ACF is not attached or the attached ACF is dysfunctional. | Foreign object is blocking the ACF operation. | ACF is running out. |
| Remedy | See "Replacing the Auto Cleaning Filter (ACF)" on page 51. | Attach the ACF or replace to new ACF. | Remove the foreign object or contact an Authorised Service Centre. | Prepare the ACF for replacement. |

Care and Replacement

Cleaning the projector

Before cleaning the projector

- Switch off the MAIN POWER and disconnect the mains plug from the mains socket.
- Unplug all the cables from the projector.

Cleaning the outer surface of the projector

Wipe off dirt and dust gently with a soft cloth.

- If it is difficult to remove the dirt, soak a cloth with water, wring the cloth well and then wipe the projector. Dry off the projector with dry cloth.
- If you use a chemical treated wipe, follow the instructions supplied with it.

Cleaning the lens and front glass surface

Wipe off dirt and dust gently with a lint-free cloth.

• Make sure no dirt or dust remains on the surface of the lens. It will be enlarged and projected onto a screen.

Replacing the Lamp unit

Before replacing the Lamp unit

- Switch off the MAIN POWER and disconnect the mains plug from the mains socket.
- Wait for more than 1 hour and make sure the lamp unit and the surroundings are cooled enough.
- Prepare a Phillips-head screwdriver.
- Contact an Authorised Service Centre to purchase a replacement lamp unit (ET-LAF100).
- When the projector is mounted on the ceiling, do not work directly under the projector or put your face closer to the projector.

NOTE:

- Prior to replacing the lamp unit, allow it to cool down to prevent the risk of burns, damage and other hazards.
- · Do not attempt replacement with an unauthorised lamp unit.

When to replace the lamp unit

The lamp unit is consumable and the brightness decreases by duration of usage. The **LAMP** indicator will inform you of the replacement timing at 5 000 hours, and at 6 000 hours, the projector will be turned off. Those figures are rough guidance and might be shortened by the usage conditions, characteristics of the lamp unit, environmental conditions, and so on. You can check the duration of usage time using **RUNTIME** of **STATUS** in the **PROJECTOR SETUP** menu.

| | On screen | LAMP indicator |
|------------------|---|------------------|
| Indication | REPLACE LAMP | |
| Over 5 000 hours | " REPLACE LAMP " is displayed on the upper left of the screen for 10 minutes. | |
| Over 6 000 hours | " REPLACE LAMP " is displayed on the upper left of the screen, and it will stay until you respond. To clear the screen, press any button. | Illuminates red. |

NOTE:

- The guide times, 5 000 and 6 000 hours, are rough estimates based on certain conditions and are not a guaranteed time.
- For more information about the lamp unit, such as guaranteed time, see the instructions which is provided with the lamp unit.

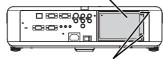
Replacement procedure



Removing and replacing the lamp unit

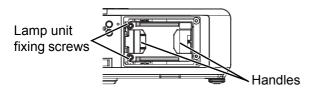
1. Use a Phillips-head screwdriver to loosen the 2 lamp unit cover fixing screws on the back of the projector until the screws turn freely, and remove the lamp unit cover.

Lamp unit cover

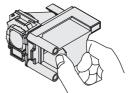


Lamp unit cover fixing screws

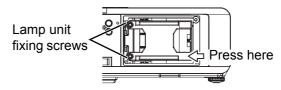
- 2. Use a Phillips-head screwdriver to loosen the 2 lamp unit fixing screws.
- 3. Hold the handles of the lamp unit and release the lamp unit lock.
- 4. Pull the used lamp unit gently from the projector.



- 5. Replace the new lamp unit in correct direction.
 - RUNTIME of STATUS in the PROJECTOR SETUP menu will be reset to "0" automatically.



- 6. Press in the lamp unit until it clicks and make sure the unit is installed securely.
- 7. Tighten the 2 lamp unit fixing screws securely with a Phillips-head screwdriver.



8. Attach the lamp unit cover and tighten the 2 lamp unit cover fixing screws securely with a Phillipshead screwdriver.

Replacing the Auto Cleaning Filter (ACF)

Before replacing the ACF

- Wait until the cooling fan stops and the power indicator turn to red.
- Disconnect the mains lead from the mains socket.
- Prepare a Phillips-head screwdriver.
- Contact an Authorised Service Centre to purchase a replacement ACF (ET-ACF100).

When to replace the ACF

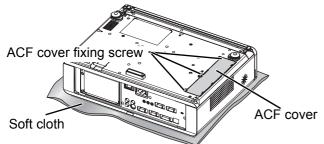
ACF is consumable product and effects on ventilation. The **FILTER** indicator will inform you of the replacement timing. You can check the remaining amount of the ACF in **REMAINING FILTER** of **STATUS** in **PROJECTOR SETUP** menu.

NOTE:

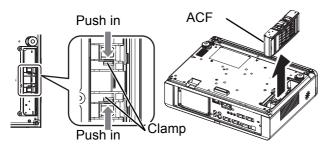
- See "WARNING MESSAGE" on page 40.
- See "REMAINING FILTER" on page 43.
- See "FILTER indicator" on page 49.
- The ACF operational sound may be heard.
- While the ACF is operating, the FILTER indicator will flash in green.
- When the **FILTER** indicator illuminate in orange, the remaining time of the ACF is less than 200 hours. This is rough estimated time and it depends on environment of usage. Contact an Authorised Service Centre to purchase a replacement ACF.
- If you use the projector at 1 400 m (4 593 ft) above sea level, it may cause malfunction of the ACF.
- If you keep using the projector after the **FILTER** indicator illuminating in red, the indicator will start to flash in red for 10 minutes and the projector will be switched off.

Replacement procedure

- Turn the projector upside down and place it gently on a soft cloth.
- 2. Use a Phillips-head screwdriver to loosen 3 ACF cover fixing screws until the screws turn freely and remove the ACF cover.



- 3. Release the lock by pushing in the lock clamp to inside, and slide out the ACF unit from the projector slowly.
- 4. Insert the new ACF unit into the compartment in correct direction and slightly push down until it clicks. Tighten an ACF fixing screw securely with a Phillips-head screwdriver.
- 5. Attach the ACF cover and tighten the ACF cover fixing screws securely with a Phillips-head screwdriver.

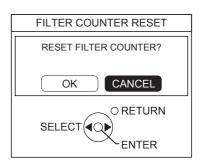


NOTE:

- If the ACF and/or ACF cover are attached incorrectly, the projector may not be turned on.
- Do not switch the power on while the ACF cover removed.
- When you replace the ACF unit, clean the compartment and/or the air exhaust port if you need to.

Resetting the REMAINING FILTER

- 1. Turn on the projector and display the **FILTER COUNTER RESET** in **PROJECTOR SETUP**.
- 2. Press the ENTER button for more than 3 seconds.
 The confirmation screen will be displayed.
- 3. Select **OK** by pressing **◄**, then press the **ENTER** button.
- 4. Display the **STATUS** and confirm the figure.



Troubleshooting

Should any problem persist, contact your dealer.

| Problem | Cause | Reference page |
|--|---|-------------------|
| | The mains lead may not be connected. The MAIN POWER switch is turned off. | 23 25 |
| | • No electric supply is at the mains socket. | 23 |
| Power does not turn on. | • TEMP indicator is lit or flashes. | 49 |
| Fower does not turn on. | • LAMP indicator is lit or flashes. | 49 |
| | • The lamp unit cover has not been securely installed. | 49 51 |
| | • The circuit breakers have tripped. | - |
| | • The video signal input source may not be connected to a terminal properly. | 22 |
| No picture appears. | The input selection setting may not be correct. | 28 |
| | • The BRIGHTNESS adjustment setting may be at the minimum setting. | 35 |
| | • The AV MUTE function may be in use. | 29 |
| | The lens focus may not have been set correctly. | 26 |
| The picture is fuzzy. | • The projector may not be at the correct distance from the screen. | 17 |
| | The lens may be dirty. | 11 |
| | • The projector may be tilted too much. | 19 |
| The colour is pale or | • COLOR or TINT adjustment may be incorrect. | 35 |
| greyish. | The input source which is connected to the projector may not be adjusted correctly. | 32 |
| No sound can be heard | The audio signal source may not be connected properly. | 21 |
| | • A cable may be connected to the VARIABLE AUDIO OUT terminal. | 15 |
| from the internal speaker. | • The volume adjustment may be at the lowest possible setting. | 31 |
| The control buttons of the projector do not operate. | • CONTROL PANEL of CONTROL DEVICE SETUP in SECURITY menu is disabled. If you have a loss of the remote control while the CONTROL PANEL is disabled, press and hold the MENU button for 2 seconds with pressing the ENTER button. | 47 |
| | REMOTE CONTROLLER of CONTROL DEVICE SETUP in | 47 |
| | SECURITY menu is disabled. | - |
| The remote control does | • The batteries may be weak. | 16 |
| not operate. | • The batteries may not have been inserted correctly. | 27 |
| | The remote control signal receptor on the projector may be obstructed. | |
| | • The remote control unit may be out of the operation range. | 27 |
| The picture does not | • The signal format (TV-SYSTEM) may not have been set correctly. | 36 |
| display correctly. | There may be a problem with the VCR or other signal source. | - |
| | • A signal which is not compatible with the projector is being input. | 54 |
| Picture from a computer | The cable may be longer than the optional cable. The external video output from a laptop computer may not be correct. (You may be able to change the external output settings by pressing the [Fn] + [F3] or [Fn] + [F10] keys simultaneously. The actual method | - 56 |
| does not appear. | varies depending on the type of computer; refer to the documentation provided with your computer for further details.) COMPUTER2 SELECT setting in PROJECTOR SETUP menu is not | |
| | correct. | 43 |
| Picture from a computer | • The graphic board driver of the computer needs to be updated to the latest version. | - |
| DVI-D graphic board does | • DVI-D IN setting in DISPLAY OPTION menu may be incorrect setting. | 40 |
| not appear. | The computer may need to be restarted after switching DVI-D IN setting in DISPLAY OPTION menu of the projector correctly. | - |

Technical Information

List of compatible signals

| Mode | Display resolution | Scan frequ | - | Dot clock frequency | Picture | | PnP | | Format ^{*3} |
|--------------------------------|--------------------------------|---------------|--------------|------------------------|-----------------------|------|----------------|----------------|----------------------|
| Mode | (dots) ^{*1} | H (kHz) | V (Hz) | (MHz) | quality ^{*2} | RGB2 | DVI-D EIDI1 | DVI-D EIDI2 | Format |
| NTSC/NTSC 4.43/ PAL-M/PAL60 | 720 x 480i | 15.7 | 59.9 | - | А | | | | V/S |
| PAL/PAL-N/SECAM | 720 x 576i | 15.6 | 50.0 | - | Α | | | | |
| 525i (480i) | 720 x 480i | 15.7 | 59.9 | 13.5 | A | | | | C/Y |
| 625i (576i) | 720 x 576i | 15.6 | 50.0 | 13.5 | A | | | | 0/1 |
| 525p (480p) | 720 x 483 | 31.5 | 59.9 | 27.0 | A | | • | | |
| 625p (576p) | 720 x 576 | 31.3 | 50.0 | 27.0 | A | | • | | |
| 1 125 (1 080)/60i | 1 920 x 1 080i | 33.8 | 60.0 | 74.3 | A | | • | | |
| 1 125 (1 080)/50i | 1 920 x 1 080i | 28.1 | 50.0 | 74.3 | A | | • | | |
| 1 125 (1 080)/60p | 1 920 x 1 080 | 66.6 | 59.9 | 138.5 | A | | | | D/C/Y |
| 1 125 (1 080)/50p | 1 920 x 1 080 | 55.6 | 49.9 | 141.5 | A | | | | |
| 1 125 (1 080)/60p | 1 920 x 1 080p | 67.5 | 60.0 | 148.5 | A | | | | |
| 1 125 (1 080)/50p | 1 920 x 1 080p 1 280 x 720 | 56.3 | 50.0 | 148.5 | A | | | | |
| 750 (720)/60p 750 (720)/50p | 1 280 x 720 1 280 x 720 | 45.0 37.5 | 60.0 50.0 | 74.3 74.3 | A A | | | | |
| 750 (720)/50p | | | 70.1 | | A | | | | |
| VESA | 640 x 400 640 x 400 | 31.5 37.9 | 70.1 85.1 | 25.2 31.5 | A | | | | С |
| | 640 x 480 | 31.5 | 59.9 | 25.2 | A | | | | D/C |
| | 640 x 480 | 35.0 | 66.7 | 30.2 | A | | | • | Bio |
| VGA | 640 x 480 | 37.9 | 72.8 | 31.5 | A | | | | С |
| V 0/ (| 640 x 480 | 37.5 | 75.0 | 31.5 | A | ě | | | |
| | 640 x 480 | 43.3 | 85.0 | 36.0 | A | • | | | |
| | 800 x 600 | 35.2 | 56.3 | 36.0 | A | | | | |
| | 800 x 600 | 37.9 | 60.3 | 40.0 | A | ě | | • | D/C |
| SVGA | 800 x 600 | 48.1 | 72.2 | 50.0 | Α | Ŏ | | - | |
| | 800 x 600 | 46.9 | 75.0 | 49.5 | Α | Ŏ | | | 0 |
| | 800 x 600 | 53.7 | 85.1 | 56.3 | A | | | | С |
| MAC | 832 x 624 | 49.7 | 74.6 | 57.3 | A | • | | | |
| | 1 024 x 768 | 39.6 | 50.1 | 51.9 | AA | | | | |
| | 1 024 x 768 | 48.4 | 60.0 | 65.0 | AA | • | | • | |
| XGA | 1 024 x 768 | 56.5 | 70.1 | 75.0 | AA | • | | • | D/C |
| | 1 024 x 768 | 60.0 | 75.0 | 78.8 | AA | • | | • | |
| | 1 024 x 768 | 68.7 | 85.0 | 94.5 | AA | | | | |
| | 1 152 x 864 | 64.0 | 71.2 | 94.2 | A | | | | |
| MXGA | 1 152 x 864 | 67.5 | 74.9 | 108.0 | A | | | | |
| | 1 152 x 864 | 76.7 | 85.0 | 121.5 | A | - | | | С |
| MAC | 1 152 x 870 | 68.7 | 75.1 | 100.0 | A | • | | | |
| MSXGA | 1 280 x 960 | 60.0 | 60.0 | 108.0 | A | | | | 5/2 |
| 0)/04 | 1 280 x 1 024 | 64.0 | 60.0 | 108.0 | A | | | | D/C |
| SXGA | 1 280 x 1 024 | 80.0 | 75.0 | 135.0 | A | U | | | 0 |
| | 1 280 x 1 024 | 91.1 | 85.0 | 157.5 108.0 | B | | | | С |
| SXGA60+ | 1 400 x 1 050 1 400 x 1 050 | 64.0 65.1 | 60.0 59.9 | 122.4 | A | | | • | D/C |
| UXGA | 1 600 x 1 200 | 65.1 75.0 | 59.9 60.0 | 162.0 | A B | | | | DIC |
| | 1 280 x 720 | 44.8 | 59.9 | 74.5 | A | | | | С |
| WIDE750 (720) | 1 280 x 720 | 37.1 | 49.8 | 60.5 | A | | | | 0 |
| | 1 280 x 720 | 39.6 | 49.9 | 65.3 | A | | | | |
| WXGA768 | 1 280 x 768 | 47.8 | 59.9 | 79.5 | A | | | | D/C |
| | 1 280 x 800 | 41.3 | 50.0 | 68.0 | A | - | | | 2,0 |
| WXGA800 | 1 280 x 800 | 49.1 | 60.2 | 69.1 | A | | | | С |
| | 1 280 x 800 | 49.7 | 59.8 | 83.5 | A | | | | D/C |
| WXGA+ | 1 440 x 900 | 55.9 | 59.9 | 106.5 | A | Ŏ | | | 2.0 |
| WSXGA+ | 1 680 x 1 050 | 65.3 | 60.0 | 146.3 | A | , j | | | С |
| WUXGA | 1 920 x 1 200 | 74.6 | 59.9 | 154.0 | В | - | | | - |

*1. The "i" appearing after the resolution indicates an interlaced signal.

*2. The following symbols are used to indicate picture quality.

AA Maximum picture quality can be obtained.

A Signals are converted by the image processing circuit before picture is projected.

B Some loss of data occurs to make projection easier.

*3. The following symbols are used to indicate the format.

V = VIDEO, S = S-VIDEO, D = DVI, C = COMPUTER, Y = YPBPR

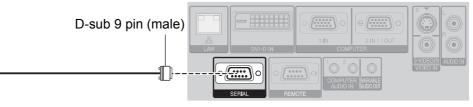
Serial terminal

The serial connector which is on the connector panel of the projector conforms to the RS-232C interface

specification, so that the projector can be controlled by a personal computer which is connected to this connecter.

Connection





Computer

Serial terminal (female)

Pin assignments and signal names

| | Pin No. | Signal name | Contents |
|---------|---------|-------------|----------------------|
| | 1) | | NC |
| | 2 | TXD | Transmitted data |
| 6 7 8 9 | 3 | RXD | Received data |
| | 4 | | NC |
| | 5 | GND | Earth |
| | 6 | | NC |
| | 7 | RTS | Connected internally |
| | 8 | CTS | Connected internally |
| | 9 | | NC |

Communication settings

| Signal level | RS-232C | Character length | 8 bits |
|--------------|--------------|------------------|--------|
| Sync. method | Asynchronous | Stop bit | 1 bit |
| Baud rate | 9 600 bps | X parameter | None |
| Parity | None | S parameter | None |

Basic format

| | · · · · · · | | | |
|------------------|-------------|-----------------------|------------------|---|
| STX Comm | and : | Parameter | ETX | The data streaming from the computer |
| Start byte 3 byt | es 1 byte | 2 1 byte - 4 bytes | End (03h) | with STX, and proceed to Command, Parameter and end with ETX. You car required parameter. |

• The projector can not receive any command for 10 seconds after the lamp is switched on. Wait 10 seconds before sending the command.

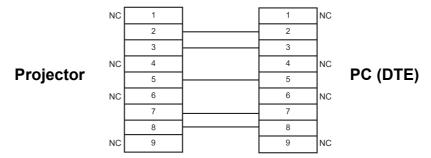
• If sending multiple commands, check that a response has been received from the projector for one command before sending the next command.

• When a command which does not require parameters to be sent, the colon (:) is not required.

• If an incorrect command is sent from the personal computer, the ER401 command will be sent from the projector to the personal computer.

Cable specifications

(When connected to a personal computer)



Control commands

| Command | Control contents | | Remarks | |
|---------|----------------------|---|---|--|
| PON | Power ON | In standby mode, all commands other than the PON command are ignored. The PON command is ignored during lamp ON control. | | |
| POF | Power OFF | If a PON command is received while the cooling fan is operating after the lamp has switched off, the lamp is not turned back on again straight away in order to protect the lamp. | | |
| AVL | Volume | Parameter 000 - 063 (Adjustment value 0 - 63) | | |
| IIS | INPUT | Parameter: VID = VIDEO RG1 = COMPUTER1 DVI = DVI | SVD = S-VIDEO RG2 = COMPUTER2 NWP = NETWORK | |
| Q\$S | Lamp condition query | Call back 0 = Standby 1 = Lamp ON control active | 2 = Lamp ON 3 = Lamp OFF control active | |
| OSH | AV MUTE | Turning off the projection and sound temporarily. Send the command to switch between ON and OFF. Do not send the command consecutively. | | |

Computer connection guidance

You can switch the signals which to output from the **COMPUTER1 OUT** terminal by pressing the computer key command. The key commands are depend on the manufactures. If you select the computer terminals which has no signals while the **INPUT GUIDE** is set to **DETAILED**, the computer connection guidance will be displayed.

| Manufacturer | Key command | Manufacturer | Key command | Manufacturer | Key command |
|--------------|-------------|--|-------------|--------------|---------------|
| Panasonic | | TOSHIBA SHARP | | IBM SONY | Fn + F7 |
| NEC | | $\mathbf{n} + \mathbf{F}_{3} \mathbf{F}_{HP}^{SHARP} \mathbf{F}_{$ | Fn + F₅ | Apple | F7 |
| FUJITSU | | EPSON DELL | Fn + F8 | Others | Fn + 🗂 |

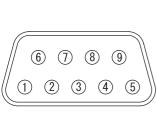
NOTE:

- The computer connection guidance will disappear after 5 minutes.
- · Please refer the instructions which provided with the computers for more detailed information.

REMOTE terminal

You can remotely operate the projector from the outside the remote control range by connecting to the **REMOTE** terminal.

Pin assignments and signal names



| | Pin No. | Signal name | Contents |
|--------|----------------|-------------|-----------------------------|
| | 1 | GND | Ground |
| | 2 | POWER | POWER ON |
| | 3 | INPUT SEL3 | Select input signal 3 |
| 8) (9) | 4 | | NC |
| | 5 | INPUT SEL1 | Select input signal 1 |
| 4 5)) | 6 | INPUT SEL2 | Select input signal 2 |
| | \overline{O} | | Connect internally |
| | 8 | | |
| | 9 | ENABLE | Control by external contact |

LAMP switching

| Pin No. | Settings | | |
|-----------|----------|------|--|
| 2 - 1 | Short | Open | |
| Operation | On | Off | |

Switching input signals

| Pin No. | Settings | | | | | |
|--------------|-----------|-----------|-------|-------|---------|---------|
| 3 - 1 | Open | Open | Open | Short | Short | Open |
| 5 - 1 | Open | Short | Open | Open | Short | Short |
| 6 - 1 | Open | Open | Short | Open | Open | Short |
| Input signal | COMPUTER1 | COMPUTER2 | DVI | VIDEO | S-VIDEO | NETWORK |

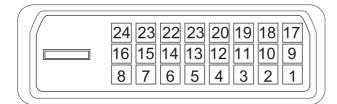
NOTE:

• When pin ① and pin ③ are short-circulated, the buttons on the projector's control panel, power and **INPUT SELECT** buttons on the remote control cannot be used. In addition, the RS-232C commands and network functions that correspond to these functions cannot be used either.

• While pin (1) is "Open", do not short-circuit pin (1), (2), (3), (5) and (6). The projector would reject all the signals from the remote control.

DVI-D IN terminal

Pin assignments and signal names



| Pin No. | Signal name | Pin No. | Signal name |
|---------|-------------------------|---------|-------------------------|
| 1 | TMDS Data 2- | 13 | |
| 2 | TMDS Data 2+ | 14 | +5V |
| 3 | TMDS Data 2/4 shield | 15 | GND |
| 4 | | 16 | Hot Plug Detect |
| 5 | | 17 | TMDS Data 0- |
| 6 | DDC clock | 18 | TMDS Data 0+ |
| 7 | DDC data | 19 | TMDS Data 0/5 shield |
| 8 | | 20 | |
| 9 | TMDS Data 1- | 21 | |
| 10 | TMDS Data 1+ | 22 | TMDS clock shield |
| 11 | TMDS Data 1/3 shield | 23 | TMDS clock+ |
| 12 | | 24 | TMDS clock- |
| | | | |

Ceiling mount bracket safeguards

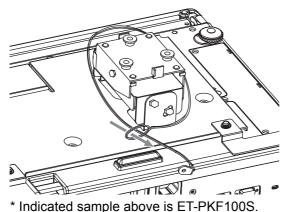
The projector and the ceiling mount bracket are designed sufficiently safety though, make sure the safety cable provided with the projector is installed and attached to the bottom of the projector when mounting on the ceiling for safety and security.

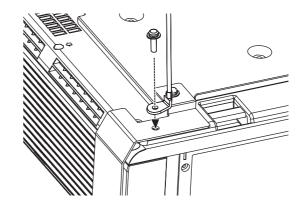
NOTE:

- Even if it is guarantee period, the manufacturer is not responsible for any hazard or damage caused by using a ceiling mount bracket which is not purchased from an authorised distributors, or environmental conditions.
- Make sure to use a torque driver and do not use an electrical screwdriver or an impact screwdriver.
- Installation work of the ceiling mount bracket should only be carried by a qualified technician.
- Remove an unused ceiling mount bracket promptly.

Installing the safety cable

- 1. Install the ceiling mount bracket according to the installation instructions.
- 2. Loop the security cable around the ceiling mount bracket with less slack.
- Lace the cable of the end with a latch through the loop on the other end of the cable.
- 3. Attach the latch on to the bottom of the projector with a provided screw.
 - Torque: 1.25±0.2 N·m





Screen size and throw distance for 16:9 aspect ratio

All measurements and the calculation results below are approximate and may differ slightly from the actual measurements.

| Projection size (16 : 9) | | | Throw dis | stance (L) |
|--------------------------|--------------------|-------------------|--|----------------|
| Screen diagonal (SD) | Screen height (SH) | Screen width (SW) | Minimum distance Maximum distance (LW) (LT) | |
| 33" (0.84 m) | 0.41 m (1'4") | 0.73 m (2'4") | | 1.9 m (6'2") |
| 40" (1.02 m) | 0.50 m (1'7") | 0.89 m (2'11") | 1.2 m (3'11") | 2.3 m (7'6") |
| 50" (1.27 m) | 0.62 m (2') | 1.11 m (3'7") | 1.5 m (4'11") | 2.9 m (9'6") |
| 60" (1.52 m) | 0.75 m (2'5") | 1.33 m (4'4") | 1.7 m (5'6") | 3.5 m (11'5") |
| 70" (1.78 m) | 0.87 m (2'10") | 1.55 m (5'1") | 2.0 m (6'6") | 4.1 m (13'5") |
| 80" (2.03 m) | 1.00 m (3'3") | 1.77 m (5'9") | 2.3 m (7'6") | 4.7 m (15'5") |
| 90" (2.29 m) | 1.12 m (3'8") | 1.99 m (6'6") | 2.6 m (8'6") | 5.3 m (17'4") |
| 100" (2.54 m) | 1.25 m (4'1") | 2.21 m (7'3") | 2.9 m (9'6") | 5.9 m (19'4") |
| 120" (3.05 m) | 1.49 m (4'10") | 2.66 m (8'8") | 3.5 m (11'5") | 7.1 m (23'3") |
| 150" (3.81 m) | 1.87 m (6'1") | 3.32 m (10'10") | 4.4 m (14'5") | 8.8 m (28'10") |
| 200" (5.08 m) | 2.49 m (8'2") | 4.43 m (14'6") | 5.9 m (19'4") | 11.8 m (38'8") |
| 250" (6.35 m) | 3.11 m (10'2") | 5.53 m (18'1") | 7.4 m (24'3") | 14.7 m (48'2") |
| 300" (7.62 m) | 3.74 m (12'3") | 6.64 m (21'9") | 8.9 m (29'2") | 17.7 m (58') |

Calculation methods

SW (m) = SD (") x 0.0221 LW (m) = 0.0297 x SD (") - 0.045 SH (m) = SD (") x 0.0125 LT (m) = 0.0592 x SD (") - 0.061

Specifications

| Power supply | | AC 100 - 240 V 50 Hz/60 Hz | | |
|---|----------------------------------|--|---|--|
| Power consumption | | 350 W | | |
| | | During standby (when fan is stopped | I): Approx. 4 W ' | |
| Amps | | 4.1 A - 1.5 A | | |
| | Panel size (diagonal) | 0.78 type | | |
| | Aspect ratio | 4:3 | | |
| LCD panel | Display method | 3 transparent LCD panels (RGB) | | |
| | Drive method | Active matrix method | | |
| | Pixels | 786 432 (1 024 x 768) x 3 panels | | |
| Lens | | Manual zoom (2x)/Manual focus F 1.8 - 2.72, f 24.8 mm - 47.2 mm | | |
| Lamp | | UHM lamp (250 W) | | |
| Luminosity ^{*2} | | 4 000 lm | | |
| Operating environment | | Temperature | 0 °C - 40 °C (32 °F - 104 °F) When the HIGH ALTITUDE MODE (page 44) is set to ON: 0 °C - 35 °C (32 °F - 95 °F) | |
| | | Humidity | 20% - 80% (no condensation) | |
| Scanning | Horizontal scanning frequency | 15 kHz - 91 kHz | | |
| frequency ^{*3} (for RGB signal) | Vertical scanning frequency | 50 Hz - 85 Hz | | |
| | Dot clock frequency | Less than 150 MHz | | |
| COMPONENT (YI | PBPR) signals | 525i (480i), 525p (480p), 625i (576i), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p, 1 125 (1 080)/50p | | |
| Colour system | | 7 (NTSC/NTSC 4.43/PAL/PAL-M/PAL-N/PAL60/SECAM) | | |
| Projection size | | 33" - 300" (838.2 mm - 7 620 mm) | | |
| Throw distance | | 1.2 m - 19.7 m (4'0" - 64'7") | | |
| Screen aspect ratio | | 4:3 | | |
| Installation | | FRONT/DESK, FRONT/CEILING, REAR/DESK, REAR/CEILING (Menu selection method) | | |
| Speaker | | 1 piece (Monaural) 4 cm (Round) | | |
| Max. useable vol | ume output | 5.0 W | | |
| | | | | |

*1. When NETWORK STANDBY in NETWORK menu is ON: Approx. 25 W

When IN STANDBY MODE of AUDIO SETTING in PROJECTOR SETUP menu is ON: Approx. 35 W

The maximum power consumption during standby: Approx. 35 W.

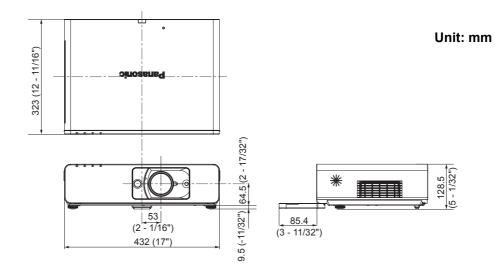
*2. Measurement, measuring conditions and method of notation all comply with ISO21118 international standards.

*3. See "List of compatible signals" on page 54 for available signals.

| s-VIDEO IN Single - line, Mini DIN 4p Y: 1.0 V [p-p], 75 Ω VIDEO IN Single - line, RCA pin jack 1.0 V [p-p], 75 Ω Single - line, D - sub HD 15-pin (female) Single - line, D - sub HD 15-pin (female) COMPUTER1 IN R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TTL high inpedance, automatic postitive/negative polarity compatible Selectable for input and output by meru operation. R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TTL high inpedance, automatic postitive/negative polarity compatible VIDEO IN Single - line, D - sub HD 15-pin (female) Selectable for input and output by meru operation. R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TTL high inpedance, automatic postitive/negative polarity compatible 0.7 V [p-p], 75 Ω AUDIO IN Single - line, D. V/D 24-pin DVI 1 0 compatible DVI 1 0 compatible AUDIO IN Single - line, 0.5V [rms], M3 jack (Stereo MIN) Varial 4 and | | | Cingle line Mini DIN 4n | | |
|---|----------------|-------------------|--|---------------------------------------|--|
| Ferminals VDED IN 1.0 V [p-p], 75 Ω COMPUTER1 IN R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TTL high impedance, automatic positive/negative polarity compatible Single - line, D - sub HD 15-pin (female) Selectable for input and output by menu operation. R.G.B. 0.7 V [p-p], 75 Ω TTL high impedance, automatic positive/negative polarity compatible Single - line, D - sub HD 15-pin (female) Selectable for input and output by menu operation. R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TTL high impedance, automatic positive/negative polarity compatible Single - line, D-SU PAPPI Single - line, 0.5V [rms], M3 jack (Stereo MINI) MUDO IN Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable AUDIO Single - line, 0.5V [rms], M3 jack (Stereo MINI) Vireless LAN Single - line, For network connection Vertices Compatible Single - line, For network connection Variable Single - line, For network connection Vertices channel IEEE802.119 (Wireless LAN standard protocol) Wireless channel IEEE802.119 (Wireless LAN standard protocol) Wireless channel IEEE802.119 (Singl | | S-VIDEO IN | | | |
| Ferminals R.G.B. 0.7 V (p-p), 75 Ω TTL high impedance, automatic positive/negative polarity compatible Single - line, D - sub HD 15-pin (female) Selectable for input and output by meru operation. R.G.B. 0.7 V (p-p), 75 Ω TTL high impedance, automatic positive/negative polarity compatible VI-D IN Single - line, D - sub HD 15-pin (female) AUDIO IN Single - line, DVD 24-pin AUDIO IN Single - line, DVD 24-pin AUDIO IN Single - line, 0.5V (rms], RCA pin jack x2 (L - R) COMPUTER AUDIO N Dual - line, 0.5V (rms], M3 jack (Stereo MINI) Viral La N (R, J-45) Single - line, 0.5V (rms], M3 jack (Stereo MINI) Viraless LAN (PT-F300NTE only) Compatible D-sub 9-pin Vireless LAN (PT-F300NTE only) Compatible IEEE802.110/IEEE802.113 (Wireless LAN standard protocol) Wireless LAN (PT-F300NTE only) Wireless channel IEEE802.110/IEEE802.113 (1 - 13 channels Distance 30 m (98'5') Depends on the usage environment Cabinet Wireless Channel IEEE802.110/IEEE802.113 (1 - 13 channels Distance 30 m (98'5') Depends on the usage environment Certifications Wireless channel IEEE802.110/IEEE802 | | VIDEO IN | | | |
| Terminals COMPUTER1 IN HD, VD/SYNC TTL high impedance, automatic positive/negative polarity compatible Selectable for input and output by menu operation. R.G.B. O.7 V (p-p), 75 Ω TTL high impedance, automatic positive/negative polarity compatible Selectable for input and output by menu operation. R.G.B. 0.7 V (p-p), 75 Ω DVI-D IN Single - line, DV-D 24-pin (Single - line, DVD 24-pin (Single - line, 0.5V [rms], R3 pack (Stereo MIN) DV1-10 compatible (Single link) AUDIO IN Single - line, 0.5V [rms], M3 jack (Stereo MIN) VariABLE AUDIO Nonitor output/stereo compatible 0 V [rms], -2.0 V [rms], M3 jack (Stereo MIN) VariABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MIN) VariABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MIN) VariABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MIN) VariABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MIN) VariABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MIN) Wireless LAN (PT-F300NTE only) Single - line, 0.5V [rms], M3 jack (Stereo MIN) Wireless LAN (PT-F300NTE only) EcteB02.110/IEEEB02.11g (Wireless LAN standard protocol) Wireless Channel IEEEB02.110/IEEEB02.11g (Wireless LAN standard protocol) Wireless LAN (PT-F300NTE only) Wireless Channel IEEEB02.110/IEEEB02.11g (Wireless LAN stand | | | | | |
| HD, VD/SYNC TT. high impedance, automatic positive/negative polarity compatible Single - line, D - sub HD 15-pin (female) Selectable for input and output by menu operation. R.G.B. 0.7 V [p-p], 75 Ω HD, VD/SYNC TT. high impedance, automatic positive/negative polarity compatible Single - line, DVI-D 24-pin DVI 1.0 compatible DVI-D IN Single - line, 0.5V [rms], RGA pin jack x 2 (L - R) COMPUTER AUDIO IN Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable AUDIO ON Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable AUDIO IN Single - line, 0.5V [rms], M3 jack (Stereo MINI) Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montor output/stereo compatible Vorme - Single - line, 0.5V [rms], M3 jack (Stereo MINI) Montore | | COMPLITER1 IN | R.G.B. | 0.7 V [p-p], 75 Ω | |
| Ferminals ComputER2 IN/ 1 OUT Selicatable for input and output by menu operation. R.G.B. 0.7 V (p-p), 75 Ω TTL high impedance, automatic positive/negative polarity compatible DVI-D IN Single - line, DVI-D 24-pin (Single link) DVI 1.0 compatible AUDIO IN Single - line, DSV [rms], RCA pin jack x 2 (L - R) COMPUTER AUDIO IN Dual - line, 0.5V [rms], M3 jack (Stereo MINI) VarIABLE AUDIO VarIABLE AUDIO Single - line, 0.5V [rms], M3 jack (Stereo MINI) Monitor output/stereo compatible 0 v [rms] - 2.0 V [rms] (Variable) SERIAL D-sub 9-pin R-5232C compatible 0 v [rms] - 2.0 V [rms] (Variable) For external control REMOTE D-sub 9-pin R-5022C compatible 0 v [rms] - 2.0 V [rms] (Variable) For external control Wireless LAN (PT-F300NTE only Single - line, For network connection 10 Base-T/100Base-TX For external control UT-F300NTE only Wireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) Wireless channel IEEE802.11b/IEEE802.11g : 1 - 13 channels Username Dimensions Width 432 mm (17") Height 128.5 mm (5 - 1/32") Length 128.5 mm (5 - 1/32") Length Vickt 432 mm (12 - 11/16") Wieight 137 g (4.2 ozs.) (including batteries) | | | HD, VD/SYNC | 0 | |
| Terminals 1 OUT R.S.B. 0.7V [pp], 75 II] TTL high impedance, automatic positive/negative polarity compatible DVI-D IN Single - line, DVI-D 24-pin DVI 1.0 compatible AUDIO IN Single - line, 0.5V [rms], RCA pin jack x 2 (L - R) ComPUTER AUDIO IN Dul - line, 0.5V [rms], M3 jack (Stereo MINI) VariABLE AUDIO Single - line, 0.5V [rms], M3 jack (Stereo MINI) Monitor output/stereo compatible OV [rms] - 2.0 V [rms] (variable) SERIAL Desub 9-pin R-5232C compatible For external control Vireless LAN (PT-F300NTE only) Single - line, For network connection 10 Base-T/100Base-T/100Base-T/2 For external control Wireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) Wireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) (PT-F300NTE only) Width 432 mm (17") Height 128.5 mm (5 - 1/32") Length 233 mm (12 - 11/16") Approx. 6.2 kg (13.7 lbs.) ¹¹ Certifications Senderson (17") Width 432 mm (12 - 11/16") Approx. 15 m (492") (when operated directly in front of signal receptor) Width 419 c 2.2.3. (including batteries) Vidth 48 mm (1 - 7/8") Uperating rang | | | | | |
| Terminals HD, VD/SYNC TI, high impedance, automatic positive/negative polarity compatible DVI-D IN Single - line, DVI-D 24-pin (Single link) DVI 1.0 compatible AUDIO IN Single - line, 0.5V [rms], RCA pin jack x 2 (L - R) COMPUTER AUDIO IN Dual - line, 0.5V [rms], M3 jack (Stereo MINI) VARIABLE AUDIO OUT Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable Single - line, 0.5V [rms], M3 jack (Stereo MINI) Variable D-sub 9-pin R5-232C compatible 0 V [rms] - 2.0 V [rms] (variable) SERIAL D-sub 9-pin R5-232C compatible 0 V [rms] - 2.0 V [rms] (variable) Kingle - line, For network connection 10 Base-TX 100Base-TX For external control Mireless LAN (PT-F300NTE ont) Single - line, For network connection 10 Base-TX 100Base-TX Mireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) Mireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) Distance 30 m (98'5") Depends on the usage environment Cabinet Moulded plastic (PC+ABS) Victh 432 mm (17") Height 128.5 mm (5 - 1/32") Length | | | R.G.B. | 0.7 V [p-p], 75 Ω | |
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| VARIABLE AUDIO OUT Monitor output/stereo compatible 0 V [rms] - 2.0 V [rms] (variable) SERIAL D-sub 9-pin RS-232C compatible REMOTE D-sub 9-pin RS-232C compatible REMOTE D-sub 9-pin RS-232C compatible Interview For external control Urgeness LAN (PT-F300NTE only) Compatible IEEE802.11b/IEEE802.11g (Wireless LAN standard protocol) Wireless channel IEEE802.11b/IEEE802.11g (Vireless LAN standard protocol) Wireless channel IEEE802.11b/IEEE802.11g (1 - 13 channels) Distance 30 m (98'5") Depends on the usage environment Cabinet Moulded plastic (PC+ABS) Width 432 mm (17") Height 128.5 mm (5 - 1/32") Length 323 mm (12 - 11/16") Weight Approx. 6.2 kg (13.7 lbs.)*1 Certifications EN60950-1, EN55022, EN61000-3-2, EN61000-3-3, EN55024 Power supply 3 V DC (AA battery x 2) Operating range Approx. 15 m (49'2") (when operated directly in front of signal receptor) Width 48 mm (1 - 7/8") Length 163 mm (6 - 13/32") Height 24.5 mm (-15/16") (not including surface projection parts) | | COMPUTER AUDIO IN | Dual - line, 0.5V [rms], M3 jack (Stere | o MINI) | |
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| | Options | Ceiling bracket | ET-PKF100H/ET-PKF100S | | |

*1. Average value. Each product has an individual variable in weight.

Dimensions



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