

Geometric Correction Box

YA-S10

中文(简)

設置手冊

- 请务必将所有用户文件妥善保管以便日后需要时查阅。
- 要取得该说明书的最新版本时，请访问下列URL的网站：
<http://world.casio.com/manual/projector/>
- この説明書は、お読みになった後も大切に保管してください。
- 本書の最新版は下記ウェブサイト公開されております。
<http://world.casio.com/manual/projector/>

器材名称：数据投影机
本说明书中的“投影机”
一词专指数据投影机。

日本語

セットアップガイド

English

Setup Guide

- Be sure to keep all user documentation handy for future reference.
- To obtain the latest version of this manual visit the website at the URL below.
<http://world.casio.com/manual/projector/>

Deutsch

Setup-Anleitung

- Bitte bewahren Sie die gesamte Benutzerdokumentation für späteres Nachschlagen auf.
- Für die neueste Ausgabe dieser Bedienungsanleitung besuchen Sie bitte unsere Website unter folgender URL.
<http://world.casio.com/manual/projector/>

Français

Guide d'installation

- Conservez la documentation à portée de main pour toute référence future.
- Pour obtenir la toute dernière version de ce manuel, consultez le site à l'adresse suivante.
<http://world.casio.com/manual/projector/>

Español

Guía de configuración

- Asegúrese de tener a mano toda la documentación del usuario para futuras consultas.
- Para obtener la versión más reciente de este manual, visite nuestro sitio web en la siguiente URL.
<http://world.casio.com/manual/projector/>

Italiano

Guida di setup

- Conservare l'intera documentazione dell'utente a portata di mano per riferimenti futuri.
- Per ottenere la versione più aggiornata di questo manuale, visitare il sito web all'URL riportato di seguito.
<http://world.casio.com/manual/projector/>

Svenska

Installationshandbok

- Förvara all användardokumentation nära till hands för framtida referens.
- Den senaste versionen av detta instruktionshäfte kan hämtas från webbplatsen med följande URL-adress.
<http://world.casio.com/manual/projector/>

Русский

Инструкции по настройке

- Обязательно храните всю пользовательскую документацию под рукой, чтобы пользоваться ею для справки в будущем.
- Для получения последней версии данного руководства посетите веб-сайт по указанному ниже URL-адресу.
<http://world.casio.com/manual/projector/>

Português

Guia de Configuração

- Certifique-se de guardar toda a documentação do usuário à mão para futuras referências.
- Para obter a última versão deste manual, visite o site no endereço URL abaixo.
<http://world.casio.com/manual/projector/>

Türkçe

Kurulum Kilavuzu

- Gelecekte ihtiyaç duyabileceğiniz için bütün kullanımlar dokümantasyonunu özenle saklayınız.
- Bu kilavuzun son sürümünü edinmek için aşağıdaki URL'de bulunan web sitesini ziyaret edin.
<http://world.casio.com/manual/projector/>

Nederlands

Instelgids

- Bewaar alle documentatie op een veilige plaats voor latere naslag.
- Bezoek de website op de onderstaande URL voor de nieuwste versie van deze handleiding.
<http://world.casio.com/manual/projector/>

Polski

Przewodnik konfiguracji

- Upewnij się, czy posiadasz całą dokumentację użytkownika, w celu otrzymania niezbędnych informacji.
- Najnowszą wersję podręcznika można pobrać z podanej poniżej strony.
<http://world.casio.com/manual/projector/>

Suomi

Asetusopas

- Muista pitää kaikki käyttöä koskevat asiakirjat lähetytävillä tulevaa tarvetta varten.
- Saat usimman version tästä oppaasta seuraavasta Internet-osoitteesta:
<http://world.casio.com/manual/projector/>

Česky

Průvodce nastavením

- Ponechte si veškerou uživatelskou dokumentaci při ruce pro budoucí použití.
- Chcete-li získat nejnovější verzi této příručky, navštivte webové stránky na níže uvedené adrese.
<http://world.casio.com/manual/projector/>

Norsk

Oppsettguide

- Pass på å oppbevare all brukerdokumentasjon lett tilgjengelig for fremtidig bruk.
- For å få den nyeste utgaven av denne bruksanvisningen, besøk nettsiden ved bruk av URLen nedenfor.
<http://world.casio.com/manual/projector/>

中文(繁)

設置手冊

- 請務必將所有用戶文件妥善保管以便日後需要時查閱。
- 要取得該說明書的最新版本時，請訪問下列URL的網站。
<http://world.casio.com/manual/projector/>

한국어

설정 가이드

- 만약을 대비하여 사용설명서 등은 소중한 보관에 주십시오.
- 본 설명서의 최신 버전을 구하려면 아래의 URL의 웹사이트를 방문해 주십시오.
<http://world.casio.com/manual/projector/>

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この装置は、高調波電流規格JIS C 61000-3-2に適合しています。

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CASIO®

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Terms and Conventions

The term “Projector System” in this manual refers to the systems below.

- XJ-SK600 Dual Projection System
- XJ-SK650 Dual Projection System
- The projector systems made up of the YA-S10 Geometric Correction Box connected to one or two separately available CASIO projectors

NOTE

- Some models covered by this manual may not be available in certain geographic areas.

User Documentation

This manual explains how to connect a projector (or projectors) to the YA-S10 Geometric Correction Box (referred to as “Control Box” in this manual) and how to use “shaping” functions to shape and adjust images projected onto various types of target screens. This manual covers tasks that need to be performed to enable control of the projector(s) with the Control Box.

- For information about operating the Projector System after setting it up, refer to the YA-S10 User’s Guide, which you can download from the website below.
<http://world.casio.com/manual/projector/>

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- Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- Other company and product names may be registered trademarks or trademarks of their respective owners.

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- Copying of this manual, either in part or its entirety, is forbidden. You are allowed to use this manual for your own personal use. Any other use is forbidden without the permission of CASIO COMPUTER CO., LTD.
- CASIO COMPUTER CO., LTD. shall not be held liable for any lost profits or claims from third parties arising out of the use of this product or this manual.
- CASIO COMPUTER CO., LTD. shall not be held liable for any loss or lost profits due to loss of data caused by malfunction or maintenance of this product, or due to any other reason.
- The sample screens shown in this manual are for illustrative purposes only, and may not be exactly the same as the screens actually produced by the product.

Safety Precautions

Thank you for selecting this CASIO product. Be sure to read these “Safety Precautions” before trying to use it. After reading this User’s Guide, keep it in a safe place for future reference.

About safety symbols

Various symbols are used in this User’s Guide and on the product itself to ensure safe use, and to protect you and others against the risk of injury and against material damage. The meaning of each of the symbols is explained below.

| | |
|--|--|
|  Danger | This symbol indicates information that, if ignored or applied incorrectly, creates the risk of death or serious personal injury. |
|  Warning | This symbol indicates information that, if ignored or applied incorrectly, could possibly create the risk of death or serious personal injury. |
|  Caution | This symbol indicates information that, if ignored or applied incorrectly, could possibly create the risk of personal injury or material damage. |

Icon Examples



A triangle indicates a situation against which you need to exercise caution. The example shown here indicates you should take precaution against electric shock.



A circle with a line through it indicates information about an action that you should not perform. The specific action is indicated by the figure inside the circle. The example shown here means disassembly is prohibited.



A black circle indicates information about an action that you must perform. The specific action is indicated by the figure inside the circle. The example shown here indicates you must unplug the power cord from the power outlet.

■ Attention: XJ-SK600/XJ-SK650 Projector System Users

Warning



The XJ-SK600/XJ-SK650 Projector System is sold under the assumption that installation will be performed by specialists who possess an adequate level of technological experiences and knowledge. Do not allow your Projector System to be installed by non-specialists. Doing so creates the risk of accidents and other problems.



Do not lean against or climb up on your Projector System. Doing so can cause it to tip over, creating the risk of fire, electric shock, and personal injury.



Periodically inspect the cabinet, Control Box, and projectors for instability and loose screws. Use of your Projector System while it is unstable or while screws are loose can cause the cabinet or components to tip over or fall, creating the risk of fire, electric shock, and personal injury.



After the Projector System is installed, never loosen any of its bolts, screws, or nuts. Doing so creates the risk of accidents and other problems.

Caution

Cleaning the Interior of the Projector System

Allowing dust to build up inside the Projector System by not cleaning it for long periods creates the risk of fire and accident, and can cause loss of projection luminosity. Request cleaning of the interior of the Projector System (for which you will be charged) from your original retailer or the contact specified for repair.

Safety Precautions

■ Projector System Operating Precautions

Warning

● Smoke, odor, heat, and other abnormalities



Should you ever notice smoke, strange odor, or any other abnormality, immediately stop using the Projector System. Continued use creates the risk of fire and electric shock. Immediately perform the following steps.

1. Unplug the Projector System.
2. Contact your original dealer or authorized CASIO service center.

● Malfunction



Immediately stop using the Projector System if the screen appears abnormal, or if any other abnormal operation occurs even though you are operating the Projector System correctly. Continued use creates the risk of fire and electric shock. Immediately perform the following steps.

1. Turn off the Projector System.
2. Unplug the Projector System.
3. Contact your original dealer or authorized CASIO service center.

● Power cord



Misuse of the power cord creates the risk of fire and electric shock. Make sure that you always observe the following precautions.

- Be sure to use only the accessories that come with the Projector System.
- Make sure that you use a power source with the same voltage as that specified for the Projector System.
- Do not overload a power outlet with too many devices.
- Do not locate the power cord near a stove.
- Do not use the power cord that comes with the Projector System with any other device.
- Do not share the outlet supplying power to the Projector System with other devices. If you are using an extension cord, make sure that the ampere rating of the extension cord is compatible with the power consumption value of your Projector System.
- Never use the power cord while it is still bundled together.
- Use a conveniently located power outlet that you can reach easily when you need to unplug the Projector System.



A damaged power cord creates the risk of fire and electric shock. Make sure that you always observe the following precautions.

- Never place heavy objects on the power cord and never expose it to heat.
- Make sure the power cord is not pinched between the wall and the rack or table where the Projector System is located, and never cover the power cord with a cushion or other object.
- Never try to modify the power cord, allow it to become damaged, or subject it to excessive bending.
- Do not twist the power cord or pull on it.



Never touch the power cord or plug while your hands are wet. Doing so creates the risk of electric shock.

- When using your Projector System in the country where you purchased it, be sure to use the power cord that came with it. Whenever using the Projector System in another country, be sure to purchase and use a power cord that is rated for the voltage of that country. Also make sure that you are aware of the Safety Standards that apply in that country.



When going out, make sure the Projector System is in a location away from pets and other animals, and unplug the power plug from the power outlet. A power cord damaged by chewing can cause shorts, and creates the risk of fire.

● AC adapter



Misuse of the AC adapter creates the risk of fire and electric shock. Make sure that you always observe the following precautions.



- Use only the AC adapter that is specified for the control box.
- Never try to use the supplied AC adapter to power any other type of device.
- Make sure that you use a power source with the same voltage as that specified for the AC adapter.
- Do not overload a power outlet.





Misuse of the power cord creates the risk of personal injury, fire and electric shock. Make sure that you always observe the following precautions.

- Never place heavy objects on top of the power cord, and do not expose it to heat.
- Never try to modify the power cord in any way, and do not subject it to excessive bending.
- Never twist or pull on the power cord.



Should the electrical cord or plug become damaged, contact your original dealer or authorized CASIO service center.



Never touch the AC adapter while your hands are wet. Water creates the risk of electric shock.



Never allow the AC adapter to become wet. Water creates the risk of fire and electric shock.



Never place a vase or any other container of liquid on top of the AC adapter. Water creates the risk of fire and electric shock.

● Water and foreign matter



Never allow water to get on the Projector System. Water creates the risk of fire and electric shock.



Never place a vase or any other container of water on top of the Projector System. Water creates the risk of fire and electric shock.



Water or other liquid, or foreign matter (metal, etc.) getting into the Projector System creates the risk of fire and electric shock. Should anything get inside the Projector System, immediately perform the following steps.

1. Turn off the Projector System.
2. Unplug the Projector System.
3. Contact your original dealer or authorized CASIO service center.

● Disassembly and modification



Never try to take the Projector System apart or modify it in any way. The Projector System contains a large number of high-voltage components that create the risk of electric shock and burn injury. Also, note that problems caused by unauthorized Projector System disassembly or modification are not covered by the warranty and are not eligible for repair by CASIO.

Be sure to leave all internal inspection, adjustment, and repair up to your original dealer or authorized CASIO service center.

● Dropping and impact



Continued use of the Projector System after it has been damaged by dropping or other mistreatment creates the risk of fire and electric shock. Immediately perform the following steps.

1. Turn off the Projector System.
2. Unplug the Projector System.
3. Contact your original dealer or authorized CASIO service center.

● Disposal by burning



Never try to dispose of the Projector System by burning it. Doing so can cause an explosion, which creates the risk of fire and personal injury.

● Location

Never locate the Projector System in any of the following types of locations. Doing so creates the risk of fire and electric shock.

- Near an area subject to strong vibration
- An area subject to large amounts of moisture or dust
- In a kitchen or other area exposed to oil smoke
- Near a heater, on a heated carpet, or in an area exposed to direct sunlight
- An area subject to temperature extremes (Operating temperature range is 5°C to 35°C (41°F to 95°F)).

● Heavy objects

Never place heavy objects on the Projector System or climb on top of the Projector System. Doing so creates the risk of fire and electric shock.

● Water

Never locate the Projector System in a bathroom or anywhere else there is the chance that it will be splashed with water.

Safety Precautions

● Unstable location



Never place the Projector System on an unstable surface or on a high shelf. Doing so can cause it to fall, creating the risk of personal injury.

● Using the Projector System on a base with casters

Whenever using the Projector System on a base that has casters, make sure that you lock the casters when not moving the base.

● Lightning

During a lightning storm, do not touch the plug of the Projector System power cord.

● Remote controller



Never try to take the remote controller apart or modify it in any way. Doing so creates the risk of electric shock, burn injury, and other personal injury. Be sure to leave all internal inspection, adjustment, and repair up to your original dealer or authorized CASIO service center.



Never allow the remote controller to become wet. Water creates the risk of fire and electric shock.



Caution

● Power cord



Misuse of the power cord creates the risk of fire and electric shock. Make sure that you always observe the following precautions.

- When unplugging the power cord, always grasp the plug, and do not pull on the power cord.
- Insert the plug into the power outlet as far as it will go.
- After using the Projector System, unplug it from the power outlet.
- Unplug the Projector System from the power outlet if you do not plan to use it for a long time.
- At least once a year, unplug the power plug and use a dry cloth or vacuum cleaner to clear dust from the area around the prongs of the power plug.
- Never use detergent to clean the power cord, especially the power plug and jack.
- Before moving the Projector System, be sure to turn it off and unplug it from the power outlet first.

● AC adapter



Misuse of the AC adapter creates the risk of fire and electric shock. Make sure that you always observe the following precautions.



- Never cover the AC adapter with a blanket while it is in use or locate it next to a heater. Such conditions can interfere with heat radiation, and cause heat to build up in the area of the AC adapter.
- Never pull on the power cord when unplugging the AC adapter. Grasp the plug unit.
- Insert the plug into the power outlet as far as it will go.
- Unplug the AC adapter before leaving on a trip or otherwise leaving it unattended for a long period.
- At least once a year, unplug the power plug and use a dry cloth or vacuum cleaner to clear dust from the area around the prongs of the power plug.
- Never use detergent to clean the power cord, especially the power plug and jack.

● Backup of important data



Be sure to keep separate written records of all data stored in Control Box and/or projector memory. Memory data can be lost due to breakdown, maintenance, etc.

Battery Precautions

Danger

 Should liquid leaking from an alkaline battery get into the eyes, immediately take the following steps.

1. Do not rub the eyes! Wash the eyes with clean water.
2. Contact a physician immediately. Failure to take immediate action can lead to loss of eyesight.

Warning

Misuse of batteries can cause them to leak and stain the area around them, or to explode, creating the risk of fire and personal injury. Make sure that you always observe the following precautions.

-  • Never try to take batteries apart and do not allow them to become shorted.
- Never expose batteries to heat or throw them into fire.
- Never mix old batteries and new ones.
- Never mix batteries of different types.
- Never try to charge batteries.
-  • Take care that batteries are oriented correctly when you load them.

Caution

Misuse of batteries can cause them to leak and stain the area around them, or to explode, creating the risk of fire and personal injury. Make sure that you always observe the following precaution.

-  • Use only the type of batteries that is specified for the remote controller.

● Dead batteries

Be sure to remove batteries from the remote controller as soon as they go dead.

-  • Remove batteries from the remote controller if you do not plan to use it for a long time.

● Disposing of batteries

Make sure that you dispose of used batteries in accordance with the rules and regulations in your local area.

Disposing of the Projector System

Caution

Whenever disposing of any of the part or the entire Projector System, be sure to do so in accordance with the laws, rules, and regulations in your geographic area.

Operating Precautions

- **Do not look directly into the light emitted from a projector.**
- **Should you ever notice a component has dropped out of the Projector System, immediately stop using it and contact your original retailer or the contact specified for repair.**
- **For information about projector maintenance, see the projector user's guide.**
- **Never use or store the projector in the following locations. Doing so creates the risk of malfunction of and damage to the Projector System.**
 - Locations prone to electrostatic charge
 - Locations subjected to temperature extremes ("Environment", page E-32)
 - Locations subjected to large amounts of oil smoke or other smoke
 - Locations subjected to moisture extremes ("Environment", page E-32).
 - Locations subjected to sudden temperature changes
 - Locations where there is a lot of dust
 - On a shaky, slanted, or otherwise unstable surface
 - Locations where there is the danger of getting wet
- **Avoid using the Projector System under the conditions described below. Such conditions create the risk of malfunction of and damage to the Projector System.**
 - Do not use the Projector System in a low-temperature or high-temperature environment. The operating temperature range of the Projector System is 5°C to 35°C (41°F to 95°F).
 - Do not place heavy objects on the cabinet that houses the Projector System and to not allow anyone to climb up onto the cabinet.
 - Do not insert or allow foreign objects to drop into the Control Box and/or projectors of your Projector System.
 - Do not place vases or other containers of liquid on the cabinet that houses the Projector System.

- **Never leave dead batteries inside a remote controller for a long period.**

Dead batteries may leak. Leaking batteries create the risk of malfunction and damage.

- **Clean with a soft, dry cloth.**

When very dirty, use a soft cloth that has been dampened in a weak solution of water and a mild neutral detergent. Wring all excess water from the cloth before wiping. Never use thinner, benzene, or any other volatile agent to clean the projector. Doing so can remove its markings and cause deformation of the case.

- **Missing Screen Dots**

Though your Projector System is manufactured using the most advanced digital technology available today, some of the dots on the screen may be missing. This is normal, and does not indicate malfunction.

- **Do not subject the cabinet where the Projector System is installed, or any of the components of the Projector System to impact while projection is being performed.**

Doing so can cause projection to be momentarily interrupted, followed by discoloration of the image and error generation.

If the screen becomes discolored, use the Control Box remote controller's [INPUT] key to re-select the input source you want to project. This should return the image to normal color. If it does not, turn Control Box power off and then back on again. If an error is generated, check the references provided below.

- "Troubleshooting" in the "YA-S10 User's Guide"
- "Error Indicators and Warning Messages" in the projector "User's Guide"

- **Warranty Conditions**

- Even if your Projector System is still within the warranty period, you will be charged for repair if a problem is due to running the System non-stop for very long periods (like 24 hours), if there are any objects within 30cm (11.8 inches) of the cabinet while the System is running.
- Use under high ambient temperature or in environments subjected to large amounts of dust, oil smoke, tobacco smoke, or other types of smoke can shorten the replacement cycles of the optical engine and other components. Using the Projector System in such an environment will require more frequent replacement of such components, which you will be charged for. For details about replacement cycles and fees, contact your original retailer or the contact specified for repair.

YA-S10 Overview

The YA-S10 Control Box is a projector controller. Some of its major features and functions are described below.

● **Image Shaping**

A variety of different functions are provided to let you shape the projected image to suit the target projection surface. Corrections can be made for images that appear normal on curved and other non-flat surfaces.

● **Simultaneous Control of Two Projectors**

The YA-S10 Control Box can control one or two projectors. When two projectors are connected, the YA-S10 Control Box provides full simultaneous control of both of them. Operations for two projectors are virtually the same as controlling a single projector.

● **Wired LAN and RS-232C Control Support**

Some Control Box functions can be controlled from an external device (Crestron controller, computer, etc.)

Unpacking

NOTE

- If you have an XJ-SK600 or XJ-SK650 Projector System, refer to the “Unpacking” section in the XJ-SK600 Setup Guide or the XJ-SK650 Setup Guide.

As you unpack the YA-S10, check to make sure that all of the items listed below are present.

- Control Box
- Remote controller (YT-200)
- AC adapter
- HDMI cables × 2
- Power cord
- Test batteries (AAA-size × 2)
- Control Box Warranty Certificate

Getting Ready

If you have an XJ-SK600 or XJ-SK650 Projector System, refer to the “Getting Ready” section in the XJ-SK600 Setup Guide or the XJ-SK650 Setup Guide.

Supported Projectors

You can connect one or two of the CASIO projector models below to the Control Box.

XJ-M140, XJ-M145, XJ-M150, XJ-M155, XJ-M240, XJ-M245, XJ-M250, XJ-M255

XJ-H1600, XJ-H1650, XJ-H1700, XJ-H1750, XJ-H2600, XJ-H2650, XJ-ST145, XJ-ST155

XJ-A131*, XJ-A141*, XJ-A146*, XJ-A241*, XJ-A246*, XJ-A251*, XJ-A256*

* RS-232C connection of these projector models to the Control Box requires an optionally available cable (YK-5).

- When connecting two projectors, both of them must have the same output resolution. Use of two projectors that are the same model is recommended.
- For information about supported projectors, visit the CASIO website.

Projector Installation

Make sure you correctly install the projector(s) to be connected to the Control Box, referring to the applicable user documentation.

Important!

- **After you set up the Control Box, projector(s), and projection screen, secure all of these components to ensure that they will not move during use. If the position of a projector, a projector zoom or focus setting, or the screen is changed, you will need to perform the adjustment procedure again from the beginning.**

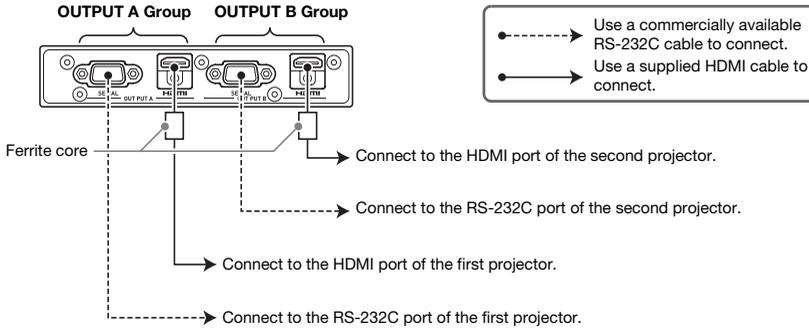
Getting Ready

Wiring

The terminals on the sides and back of the Control Box connect to the power source and various devices as described below.

Control Box Side: Connect one or two projectors.

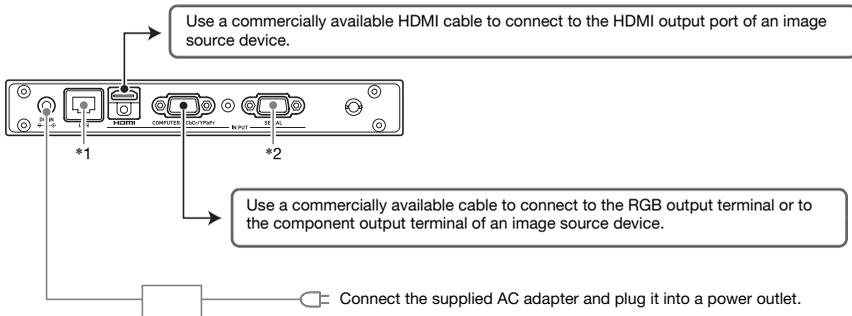
When connecting the Control Box to a projector using a supplied HDMI cable, connect the plug of the cable that is nearest the ferrite core to the HDMI port of the Control Box.



Important!

- If you are connecting only a single projector, use the **OUTPUT A** group terminals.
- If you are connecting two projectors, the projector connected to the **OUTPUT A** group terminals is referred to as “Projector A”, while the projector connected to the **OUTPUT B** group terminals is referred to as “Projector B”. Later when configuring settings and making adjustments, we will need to distinguish between Projector A and Projector B.

Control Box Back: Connect the AC adapter and the input source device.



*1 To control the Projector System from an external device over a LAN, use a commercially available LAN cable to connect this terminal to the LAN terminal of the external device.

*2 To control the Projector System from an external device over an RS-232C connection, use a commercially available serial cable (cross) to connect this port to the serial port of the external device.

Preparing the Remote Controllers

Load the two provided AAA-size batteries into the remote controller (YT-200).

To load batteries: Open the battery cover on the back of a remote controller. Load the batteries making sure their poles (+/-) are facing in the correct directions. Finally, replace the battery cover.

Important!

- **To avoid running down the battery, store the remote control unit so its keys are not pressed inadvertently.**
- **When batteries go dead, remove them as soon as possible and replace them with two new AAA-size alkaline batteries.**

Configuring the Initial Settings of the Projector(s) Connected to the Control Box

- Perform the procedure below after locating the devices where they will be used, after connecting cables, and after preparing the remote controllers.
- If you have two projectors connected to the Control Box, you will need to perform the procedure below on both of them.

Perform the operations below using the projector remote controller. Note that these operations cannot be performed using the Control Box remote controller (YT-200).

To configuring the initial settings of the projector(s)

1. Remove the Projector lens cover.
2. Turn on Projector.
3. After projection starts, perform the required operation on the projector to focus the projected image.
 - For information about how to focus, see the User's Guide that comes with the projector.
4. On the "Language" screen that appears, select the display language you want to use.
5. On the remote controller, press the [INPUT] key. On the "Input" dialog box that appears, select "HDMI" and then press the [ENTER] key.

Getting Ready

- On the remote controller, press the [MENU] key to display the setup menu, and then configure the settings below in the indicated sequence.

| Setting Item | Setting |
|---|---------|
| (1) Option Settings1 → Auto Keystone Correction | Off |
| (2) Screen Settings → Keystone Correction | 0 |
| (3) Screen Settings → No Signal Screen | Black |
| (4) Input Settings → Signal Name Indicator | Off |
| (5) Option Settings1 → Auto Power Off | Off |

- If the Projector System will be used in an inverted ceiling mount configuration, select “On” for the “Screen Settings → Ceiling Mount” setting.
- If the Projector System will be used in a rear projection (projecting from behind the screen) configuration, select “Rear” for the “Screen Settings → Projection Mode” setting.
- If the Projector System will be used in a location at an elevation of 1,500 to 2,000 meters, select “On” for the “Option Settings 2 → High Altitude” setting.

- Press the [⏻] (Power) key twice to turn off Projector.

Configuring Initial Control Box Settings

After you finish configuring the initial settings of the projector(s), perform the procedure below to configure initial Control Box settings.

Perform the operations below using the Control Box remote controller (YT-200). Note that these operations cannot be performed using a projector remote controller.

To configure initial Control Box settings

- Press the remote controller [ALL] key (or [1] key) to turn on Control Box power.
 - This also turns on the projector(s) linked to the Control Box.
- On the remote controller, press the [MENU] key to display the setup menu.
 - Under initial default settings, menus are displayed in English.
- Select “Option Settings” and then “Language”, and then use the [◀] and [▶] keys to select the language you want.
- Configure the settings below as required. For details about each setting, refer to the “YA-S10 User’s Guide”.
 - Option Settings → Eco Mode
 - Image Properties → Color Mode
 - Option Settings → Remote Power Numbers
- Next, perform the procedure under “Adjusting the Position of the Projector(s)” (page E-15).

Control Box Power On/Off

The Control Box remote controller has five power keys. Four of them are numbered from [1] to [4], and the fifth one is marked [ALL]. This allows power on/off control of multiple Control Boxes in the same location.

- Pressing the [ALL] key turns on all of the Control Boxes.
- Keys [1] through [4] control the Control Boxes that are assigned the corresponding number with the “Option Settings → Remote Power Numbers” setting.

Adjusting the Position of the Projector(s)

Adjust the angle of the projector and the size of the projected image so the projected image is just running off the edges of the target screen (the screen or wall surface to be projected upon after Projector System setup is complete).

If you have two projectors connected to the Control Box, overlap their projection images so they are approximately the same size and in the same position on the target screen.

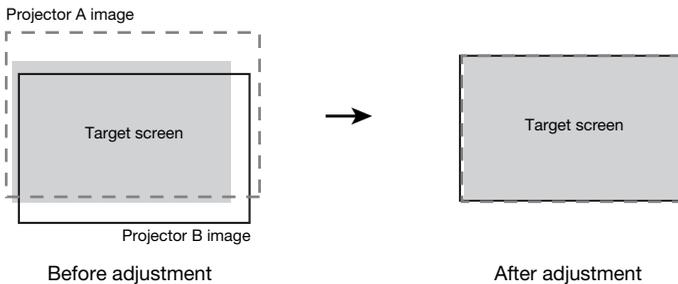
- After you finish configuring the initial settings of the Control Box, perform the procedure below.
- For information about which projector is Projector A and which one is Projector B, see “Wiring” (page E-12).

Perform the operations below using the Control Box remote controller (YT-200). Note that these operations cannot be performed using a projector remote controller.

To adjust the position of the projector (two projectors)

1. If you shut off power after finishing the procedure under “To configure initial Control Box settings” (page E-14), turn on Control Box power.

Adjustment 1: Perform rough position alignment

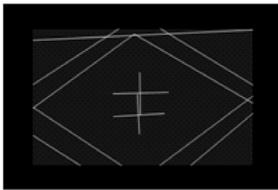


2. Attach the lens cover to the lens of Projector B only so only the Projector A image is being projected on the projection screen.
3. Adjust the position and size of the Projector A image so it slightly runs off the edges of the target screen.
Perform the following steps.
 - (1) Adjust the position and orientation of Projector A.
 - (2) Adjust the size of the Projector A image.
4. Remove the lens cover from the lens of Projector B so its image is projected.
5. Adjust the position and size of the Projector B image so it slightly runs off the edges of the target screen.
Perform the following steps.
 - (1) Adjust the position and orientation of Projector B.
 - (2) Adjust the size of the Projector B image.

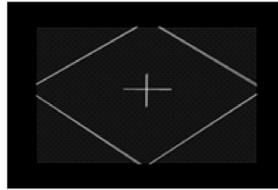
Getting Ready

6. With both the Projector A and Projector B images being projected, repeat steps 3 and 5 as required to minimize the difference between the shape of the Projector A and Projector B images.

Adjustment 2: Fine adjustment using the adjustment pattern



Before adjustment



After adjustment

7. On the remote controller, press the [CORRECT] key.
8. On the “Image Shaping” menu that appears, select “Adjust Image Position” and then press the [ENTER] key.
- This will project two adjustment patterns, a yellow one for Projector A and a light blue one for Projector B.
 - Adjust the focus of the patterns as required.
9. Observe the adjustment patterns as you adjust Projector A and then Projector B. Try to achieve the characteristics described below as you make adjustments.
- Adjust the horizontal lines of the crosshairs in the center of the adjustment pattern so they are horizontal (no left-right sloping).
 - Adjust so the vertical lines of the crosshairs in the center of the adjustment pattern are in the center of the screen.
- Perform the following steps.
- Projector A :** Use the same procedure as that in step 3 to fine tune the adjustment of the Projector A adjustment pattern.
- Projector B :** Use the same procedure as that in step 5 to fine tune the adjustment of the Projector B adjustment pattern.
10. On the remote controller, press the [BLANK] key.
- This will cause the Projector B adjustment pattern to disappear, leaving only the Projector A adjustment pattern (yellow).

11. While observing the Projector A adjustment pattern, perform the vertical adjustments described below.

- (1) Adjust the vertical inclination of Projector A.
- (2) Adjust the size of the Projector A image.

The crosshairs of the adjustment pattern should be in the center of the target screen and the outer border of the adjustment pattern should be just outside of target projection area, as shown in the nearby figure.



12. Press the remote controller's [BLANK] key.
 - This will project from Projector B again so the adjustment patterns of both Projector A and Projector B are being projected.
13. Perform the steps below to get the adjustment pattern of Projector B as closely aligned as possible with the Projector A adjustment pattern.
 - (1) Adjust the vertical inclination of Projector B.
 - (2) Adjust the size of the Projector B image.
14. After the adjustment is the way you want, press the remote controller's [ESC] key.
 - This will cause the Projector A and Projector B adjustment patterns to disappear, and project the "Image Shaping" menu.
15. Next, perform the procedure under "Shaping the Image to Match the Projection Screen" (page E-18).

Important!

- **During the adjustment procedures from this point onwards, do not alter the position of the projector(s) or the screen, and do not change a projector zoom or focus setting. If any one of these is altered, return to step 2 of the procedure and perform the other steps again.**

To adjust the position of the projector (one projector)

1. If you shut off power after finishing the procedure under "To configure initial Control Box settings" (page E-14), turn on Control Box power.
2. Adjust the position and size of the projector image so it slightly runs off the edges of the target screen.

Perform the following steps.

 - (1) Adjust the position and orientation of the projector.
 - (2) Adjust the size of the projector image.
3. On the remote controller, press the [CORRECT] key.
4. On the "Image Shaping" menu that appears, select "Adjust Image Position" and then press the [ENTER] key.
 - This should display an adjustment pattern.
 - Adjust the focus of the pattern as required.
5. While watching the adjustment pattern make adjustments in accordance with the guidelines below.
 - Adjust the horizontal line of the crosshairs in the center of the adjustment pattern so it is horizontal.
 - The crosshairs of the adjustment pattern should be in the center of the target screen and the outer border of the adjustment pattern should be just outside of target projection area, as shown in the nearby figure.

Perform the same adjustments as in step 2 of this procedure.



6. After the adjustment is the way you want, press the remote controller's [ESC] key.
 - This will cause the adjustment pattern to disappear, and project the "Image Shaping" menu.

Getting Ready

- Next, perform the procedure under “Shaping the Image to Match the Projection Screen” (page E-18).

Important!

- During the adjustment procedures from this point onwards, do not alter the position of the projector(s) or the screen, and do not change a projector zoom or focus setting. If any one of these is altered, return to step 2 of the procedure and perform the other steps again.

Shaping the Image to Match the Projection Screen

This is the final stage of the adjustment process. Here, you make adjustments that shape the projection images to match the projection screen in order to produce an image that is not distorted looking.

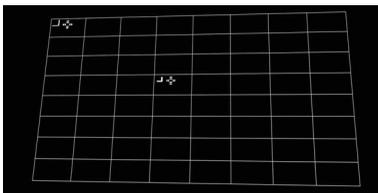
Shaping Types

Shaping of the projection image makes it possible to correct keystoneing due to the relationship between the screen and projectors, and image distortion caused by projection surface unevenness. You can select one of the shaping methods described below.

- Flat** : This shaping type is mainly for correcting for keystoneing that occurs when projecting onto a flat surface.
- Cylinder** : This shaping type is best for correcting for distortion that occurs when projecting onto cylindrical columns and other curved surfaces. There are two options for cylindrical shaping. Cylinder 1 is for vertical cylindrical shapes, while Cylinder 2 is for horizontal cylindrical shapes.
- Free Style** : This shaping type displays a 9×9 grid on the projection screen. You can shape the image by moving the intersects of the grid lines (up to 81 points) up, down, left, or right. Use this shaping type when projecting onto a surface that has smooth irregularities.

Changing the Projected Image View while Shaping an Image ([IMAGE] Key)

While you are performing image shaping on a projected image, you can use the [IMAGE] key to toggle the projected image between the grid and the input source image.



Grid



Input source

To shape the image to match the projection screen (two projectors)

NOTE

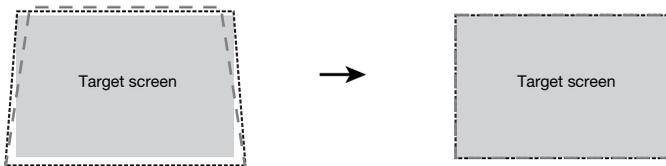
- After you finish the procedure under “To adjust the position of the projector (two projectors)” (page E-15), perform the procedure below.
 - For information about which projector is Projector A and which one is Projector B, see “Wiring” (page E-12).
 - Perform the procedure below using the Control Box remote controller.
1. If you shut off power after finishing the procedure under “To adjust the position of the projector (two projectors)” (page E-15), turn on Control Box power. If an image is being projected, press the [CORRECT] key to display the “Image Shaping” menu.



2. Select a “Shaping Type” setting in accordance with the type of surface you are projecting to.
 - Under initial Default Box settings, “Flat” is selected for “Shaping Type”.

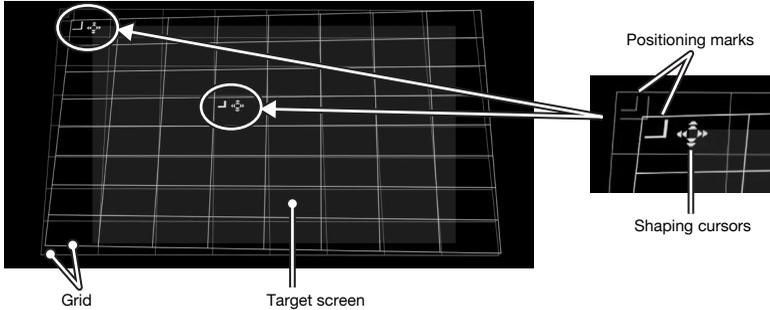
Important!

- The steps in the example used for this procedure assume a standard flat screen projection surface (target screen), with “Flat” selected for “Shaping Type”. For information about how to deal with other shaped projection surfaces, refer to “Using Shaping Functions” (page E-24).
3. Perform corner correction.
 - The four corners of the Projector A image and Projector B image should line up exactly with the four corners of the target screen.

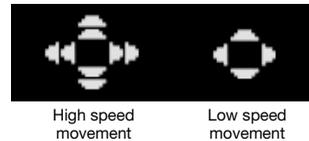


Getting Ready

- (1) On the “Image Shaping” menu, select “Corner Correction” and then press the [ENTER] key.
 - As shown in the screenshots below, both Projector A and Projector B will project grids and positioning marks. The yellow grid and mark is the Projector A image, while the light blue grid and mark is the Projector B image.
 - “Shaping cursors” will also be shown in the upper left corner of the yellow grid, and somewhat above and to the left of the center of the grid. This indicates that the Projector A grid is currently selected for adjustment. Perform the required shaping operations to align the Projector A image.



- (2) Use the [▲], [▼], [◀] and [▶] keys to move the upper left corner of the grid so it is aligned with the upper left corner of the target screen.
 - You can toggle the speed of grid movement between slow and fast by pressing the [CORRECT] key. The current cursor speed setting is indicated by the shape of the cursor as shown in the nearby image.
 - You can toggle the Projector B image between show and hide by pressing the [BLANK] key.
- (3) After the upper left corner of the Projector A image is where you want it, press the [POSITION] key.
 - This will cause the shaping cursors to start flashing, which indicates that shifting of the cursors to a different location is enabled.
- (4) Use the [▶] key to move the flashing shaping cursor to the upper right corner of the Projector A image, and then press the [CORRECT] key.
 - This will stop the cursor flashing, which indicates that you are now able to move the upper right corner of the grid.
- (5) Use the [▲], [▼], [◀] and [▶] keys to move the upper right corner of the grid so it is aligned with the upper right corner of the target screen.
- (6) Repeat steps (3) through (5) above to align the lower right and lower left corners.



NOTE

- Operation of the following keys is disabled while an image from an input source is being projected: [▲], [▼], [◀], [▶], [CORRECT], [POSITION]. For information about selecting the projection image, refer to “Changing the Projected Image View while Shaping an Image ([IMAGE] Key)” (page E-18).
- (7) After Projector A image alignment is the way you want, press the [A⇌B] key.
 - This will cause the yellow Projector A image shaping cursors to disappear and be replaced by light blue Projector B image shaping cursors.
 - (8) Align the four corners of the Projector B image with those of the target screen.
 - Use the same steps as those you performed for the Projector A image.

- (9) After Projector B image alignment is the way you want, press the [A⇌B] key.
 - This will cause the light blue Projector B image shaping cursors to disappear and be replaced by yellow Projector A image shaping cursors.
- (10) Repeat steps (2) through (9) (toggling the movement speed between slow and fast with the [CORRECT] key) as many times as required to fine tune the adjustment. Adjust the Projector A and Projector B images until they satisfy the conditions below.
 - The four corners of the two grids align as precisely as possible with the four corners of the target screen.
 - The single thick yellow positioning mark line centered between the two thin blue positioning mark lines.



Improper positioning



Proper positioning

- (11) To exit Corner Correction, press the [ESC] key.
 - This will display the “Image Shaping” menu.

4. Perform other correction operations as required.

- When “Flat” is selected as the shaping type, you can also perform “Side Correction (Arch)”, “Side Correction (Parallel Shift)”, and “Center Point Correction”. For details, see “Performing Detailed Correction” (page E-27).

5. If required, adjust the aspect ratio of the projected image.

- For details, see “Adjusting the Aspect Ratio of the Projected Image” (page E-30).

6. After image shaping work is complete, display the “Image Shaping” menu and then press the [ESC] key.

- This will display the “Image shaping will be ended.” dialog box, which contains the two options described below.

Display both menus stacked.:

Select this option after you have been able to correctly align the Projector A and Projector B images. With this setting, pressing the [MENU] key will display both the Projector A and Projector B menus.

Display one menu only.:

Select this option if Projector A and Projector B image alignment is incomplete (which makes stacked menus difficult to read) and you want to re-adjust them later. With this setting, only the Projector A menu is displayed.

7. After selecting the option you want, press [ENTER].

- This exits the dialog box and causes the image from the input source to be projected.

Getting Ready

Changing Only the Menu Display Mode

If you want to display only the menu display mode that you selected in step 6 of the procedure under “To shape the image to match the projection screen”, press the [CORRECT] key to display the “Image Shaping” menu, and then press the [ESC] key.

Use the dialog box that appears to select the option you want and then press the [ENTER] key.

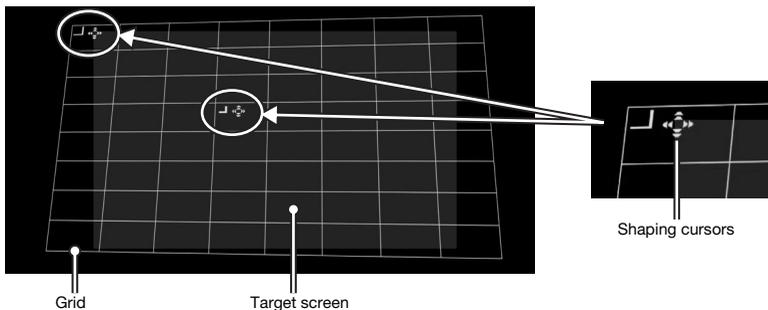
To shape the image to match the projection screen (one projector)

NOTE

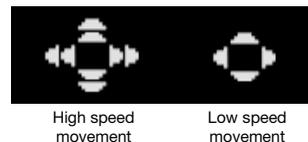
- After you finish the procedure under “To adjust the position of the projector (one projector)” (page E-17), perform the procedure below.
 - Perform the procedure below using the Control Box remote controller.
1. If you shut off power after finishing the procedure under “To adjust the position of the projector (one projector)” (page E-17), turn on Control Box power. If an image is being projected, press the [CORRECT] key to display the “Image Shaping” menu.
 2. Select a shaping type in accordance with the shape of the target screen.
 - Under initial Default Control Box settings, “Flat” is selected for “Shaping Type”.

Important!

- The steps in the example used for this procedure assume a standard flat screen projection surface (target screen), with “Flat” selected for “Shaping Type”. For information about how to deal with other shaped projection surfaces, refer to “Using Shaping Functions” (page E-24).
3. Perform corner correction.
 - The four corners of the projected image should line up exactly with the four corners of the target screen.
- (1) On the “Image Shaping” menu, select “Corner Correction” and then press the [ENTER] key.
 - This will display grids for corner correction.
 - At the same time “shaping cursors” will appear in the upper left corner of the screen, and somewhat above and to the left of the center of the screen.



- (2) Use the [▲], [▼], [◀] and [▶] keys to move the upper left corner of the grid so it is aligned with the upper left corner of the target screen.
 - You can toggle the speed of grid movement between slow and fast by pressing the [CORRECT] key. The current cursor speed setting is indicated by the shape of the cursor as shown in the nearby image.



- (3) After the upper left corner of the projector image is where you want it, press the [POSITION] key.
 - This will cause the shaping cursors to start flashing, which indicates that shifting of the cursors to a different location is enabled.
- (4) Use the [▶] key to move the flashing shaping cursor to the upper right corner of the projector image, and then press the [CORRECT] key.
 - This will stop the cursor flashing, which indicates that you are now able to move the upper right corner of the grid.
- (5) Use the [▲], [▼], [◀] and [▶] keys to move the upper right corner of the grid so it is aligned with the upper right corner of the target screen.
- (6) Repeat steps (3) through (5) above to align the lower right and lower left corners.

NOTE

- Operation of the following keys is disabled while an image from an input source is being projected: [▲], [▼], [◀], [▶], [CORRECT], [POSITION]. For information about selecting the projection image, refer to “Changing the Projected Image View while Shaping an Image ([IMAGE] Key)” (page E-18).
- (7) Repeat steps (2) through (6) as many times as necessary to fine tune the adjustment so the four corners of the projector image are aligned as exactly as possible with the target screen corners.
 - When making fine adjustments, it is probably best to use slow speed shaping cursor movement (see step 3-(2) of this procedure).
 - (8) To exit Corner Correction, press the [ESC] key.
 - This will display the Image Shaping menu.
- 4.** Perform other correction operations as required.
- When “Flat” is selected as the shaping type, you can also perform “Side Correction (Arch)”, “Side Correction (Parallel Shift)”, and “Center Point Correction”. For details, see “Performing Detailed Correction” (page E-27).
- 5.** If required, adjust the aspect ratio of the projected image.
- For details, see “Adjusting the Aspect Ratio of the Projected Image” (page E-30).
- 6.** After image shaping work is complete, display the “Image Shaping” menu and then press the [ESC] key.
- This will cause the image from the input source to be projected.

Using Shaping Functions

This section provides details about operations you need to perform when selecting one of the shaping types explained under “Shaping Types” (page E-18).

Important!

- All of the operations in this section assume that the procedures under “Adjusting the Position of the Projector(s)” (page E-15) and “Shaping the Image to Match the Projection Screen” (page E-18) have been performed.
- Changing from one shaping type to another shaping type will cause all of the shaping that was applied with the previous shaping type to be cleared.



NOTE

- For information about which projector is Projector A and which one is Projector B, see “Wiring” (page E-12).
- Perform the procedures in this section using the Control Box remote controller.

Shaping Type: Flat

This shaping type is mainly for correcting for keystone that occurs when projecting onto a flat surface.

To perform correction using “Shaping Type: Flat”

1. Press the [CORRECT] key to display the Image Shaping menu.
2. Select “Shaping Type” and then press the [ENTER] key.
3. Select “Flat”, and then press [ENTER].
 - If there are previous corrections made with a different shaping type, a dialog box with the message “All image shaping will be cleared. Do you want to continue?” will appear. To clear the current shaping and change the shaping type, select “Yes”, and then press [ENTER].
4. Use the “Image Shaping” menu to select one of the following shaping types in accordance with the target screen to be projected upon: “Corner Correction”, “Side Correction (Arch)”, “Side Correction (Parallel Shift)”, “Center Point Correction”.
 - For details about what you can do with each menu item, see “Performing Detailed Correction” (page E-27).
5. If required, adjust the aspect ratio of the projected image.
 - For details, see “Adjusting the Aspect Ratio of the Projected Image” (page E-30).
6. After image shaping work is complete, display the “Image Shaping” menu and then press the [ESC] key.
 - This will cause the image from the input source to be projected.

Shaping Type: Cylinder 1 or Cylinder 2

These shaping types are best for correcting for distortion that occurs when projecting onto cylindrical columns and other curved surfaces. Use “Cylinder 1” for vertical cylinders and “Cylinder 2” for horizontal cylinders.

To perform correction using “Shaping Type: Cylinder 1” or “Shaping Type: Cylinder 2”

1. Press the [CORRECT] key to display the Image Shaping menu.
2. Select “Shaping Type” and then press the [ENTER] key.
3. In accordance with the target screen shape, select “Cylinder 1” or “Cylinder 2” and then press the [ENTER] key.
 - If there are previous corrections made with a different shaping type, a dialog box with the message “All image shaping will be cleared. Do you want to continue?” will appear. Select “Yes”, and then press [ENTER].
4. Use the “Image Shaping” menu to select one of the following shaping types in accordance with the target screen to be projected upon: “Corner Correction”, “Base And Side Adjustment”, “Side Correction (Arch)”, “Center Point Correction”.
 - For details about what you can do with each menu item, see “Performing Detailed Correction” (page E-27).
5. If required, adjust the aspect ratio of the projected image.
 - For details, see “Adjusting the Aspect Ratio of the Projected Image” (page E-30).
6. After image shaping work is complete, display the “Image Shaping” menu and then press the [ESC] key.
 - This will cause the image from the input source to be projected.

Shaping Type: Free Style

This shaping type displays a 9×9 grid on the projection screen. You can shape the image by moving the intersects of the grid lines (up to 81 points) up, down, left, or right. Use this shaping type when projecting onto a surface that has smooth irregularities.

To perform correction using “Shaping Type: Free Style”

1. Press the [CORRECT] key to display the Image Shaping menu.
2. Select “Shaping Type” and then press the [ENTER] key.
3. Select “Free Style” and then press the [ENTER] key.
 - If there are previous corrections made with a different shaping type, a dialog box with the message “All image shaping will be cleared. Do you want to continue?” will appear. Select “Yes”, and then press [ENTER].
4. On the “Image Shaping” menu, select “Point Correction” and then press the [ENTER] key.
5. On the “Point Correction” submenu that appears, select “4-Point Correction” and then press the [ENTER] key.
 - This will display a grid for 4-point correction.
6. Perform 4-point correction.
 - For details, see “Point Correction” on page E-29.
 - A method is available to clear all corrections and return moved points to their initial positions. For details, see “Clear Corrections” on page E-29.
7. If required, adjust the aspect ratio of the projected image.
 - For details, see “Adjusting the Aspect Ratio of the Projected Image” (page E-30).
8. After image shaping work is complete, display the “Image Shaping” menu and then press the [ESC] key.
 - This will cause the image from the input source to be projected.

Performing Detailed Correction

This section provides details about the various types of corrections that can be applied with the “Image Shaping” menu. Starting a correction operation causes a grid to appear on the projected image. The operations in the table below can be performed while a grid is displayed.

| To do this: | Perform this operation: |
|--|--|
| Move the shaping cursor to a point or line | Use the [▲] and [▼] keys to move vertically. Use the [◀] and [▶] keys to move horizontally. |
| Toggle cursor movement speed between fast and slow | Press the [CORRECT] key. |
| Reposition the shaping cursor | Press the [POSITION] key. This will cause the shaping cursor to flash. Use the [▲], [▼], [◀], and [▶] keys to move the cursor. After moving the shaping cursor to the desired location, press the [CORRECT] key. |
| Toggle between the Projector A image and Projector B image.* | Press the [A↔B] key: |
| Hide the grid of the image of the projector that is not selected.* | Press the [BLANK] key. |
| Display the Image Shaping menu | Press the [ESC] key. |

* This operation is not available when a single projector is connected to the Control Box.

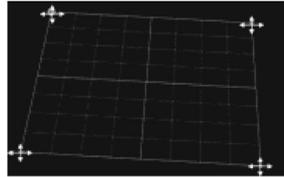
Corner Correction

Use it for this:

To reduce keystoneing that occurs when the screen is at an angle to the projectors. When projecting onto a horizontally rectangular screen, you align the four corners of the projected image with the corners of the screen.

How it works:

The four corners of the projected image can be moved up, down, left, and right.



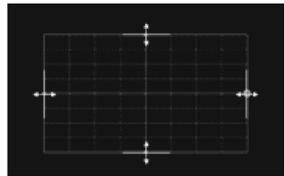
Side Correction (Parallel Shift)

Use it for this:

Basically the same purposes as Corner Correction. When alignment of the sides of the projected image is very different from the sides of the screen, first use Side Correction (Parallel Shift) to make general adjustments, and then use Corner Correction for finer adjustment.

How it works:

The four sides of the projected image can be moved up, down, left, and right.



Using Shaping Functions

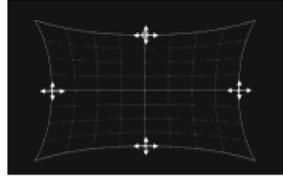
Side Correction (Arch)

Use it for this:

To reduce projected image distortion that occurs when projecting into a surface that shaped like a convex or concave lens.

How it works:

Points in the center of the top and bottom sides can be concurrently moved vertically, and points in the center of the left and right sides can be concurrently moved horizontally. The result produces an arched shape of the side whose point is moved.



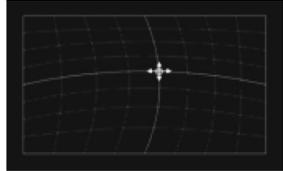
Center Point Correction

Use it for this:

To adjust to the high point of a convex surface or the low point of a concave surface when the point is off center. This adjustment is performed after Side Correction (Arch) is complete.

How it works:

The center point of the projection screen can be moved vertically and horizontally.



Base And Side Adjustment

Use it for this:

To reduce projected image distortion that occurs when projecting into a surface that is shaped like a cylinder.

When Cylinder 1 is selected as the shaping type, vertical adjustment affects the bases, while horizontal adjustment affects the sides.

When Cylinder 2 is selected as the shaping type, vertical adjustment affects the sides, while horizontal adjustment affects the bases. (The nearby screenshot shows the screen when Cylinder 1 is selected.)

How it works:

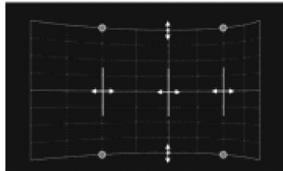
The four positions of the projected image described below can be manipulated.

Cylinder 1 (vertical cylinder)

- Upper base: Can be moved vertically.
- Lower base: Can be moved vertically.
- Side vertical center line: Can be moved horizontally.
- Side vertical 1/4 line and vertical 3/4 line: Both can be moved horizontally closer to or further from the vertical center line. These lines move in conjunction with each other. Moving these lines causes the curve of the side to change accordingly.

Cylinder 2 (horizontal cylinder)

- Left base: Can be moved horizontally.
- Right base: Can be moved horizontally.
- Side horizontal center line: Can be moved vertically.
- Side horizontal 1/4 line and horizontal 3/4 line: Both can be moved vertically closer to or further from the horizontal center line. These lines move in conjunction with each other. Moving these lines causes the curve of the side to change accordingly.



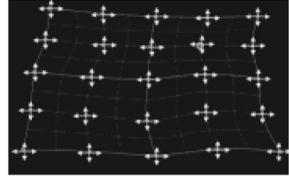
Point Correction

Use it for this:

To reduce projected image distortion that occurs when projecting into a surface that has a smoothly irregular shape, like that of a convex or concave lens, etc.

How it works:

4-Point Correction is the same as Corner Correction. It is recommended that you first perform 4-Point Correction to align the four corners of the projected image with the target screen, and then perform the other types of correction in ascending order (9-Point, 25-Point, 81-Point) to fine tune the correction. (The nearby screenshot shows the screen when 25-Point Correction is selected.)



Clear Corrections

Any time while you are performing point correction (while the grid is displayed), you can use the procedure below to return one corrected point or all of the points corrected using a particular type of correction (4-Point, 9-Point, 25-Point, or 81-Point) to their initial positions.

Important!

- When two projectors are connected to the Control Box, the operation below will clear only corrected points on the screen of the projector where you are currently performing point correction (Projector A or Projector B).

1. If you want to clear the correction of a particular point, move the shaping cursor to that point.
 - If you want to clear all corrections for a particular type of point correction, skip this step.
2. Press the [ESC] key to display the “Image Shaping” menu.
3. Select “Clear Corrections” and then press the [ENTER] key.
4. This will display a menu for selecting the clear operation type.

| To perform this type of clear operation: | Select this menu item: |
|--|--|
| Correction of point specified in step 1 | Current point |
| All point corrections made using the correction type specified by the menu item, as well as all point corrections made using more detailed correction types* | 4-Point Correction, 9-Point Correction, 25-Point Correction, 81-Point Correction* |
| All point corrections, regardless of correction type | All points |

* The menu option that appears is for the type of correction you were performing when you displayed the menu. If you were performing 25-Point Correction, then “25-Point Correction” would appear. Selecting “25-Point Correction” in this case would clear all corrections made using 25-Point Correction, as well all corrections made using 81-Point Correction.

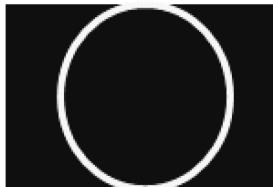
5. Press the [ENTER] key to execute the clear operation.
 - This will exit the menu and return to the grid display.

Adjusting the Aspect Ratio of the Projected Image

After performing a shaping operation, you can also adjust the aspect ratio of the projected image. Note that this operation does not adjust the aspect ratio of the input source image (which determines how the input source image fits within the projection area), but rather the aspect ratio of the image being projected. Perform the procedures in this section using the Control Box remote controller.

Adjusting the Aspect Ratio

1. Press the [CORRECT] key to display the Image Shaping menu.
2. On the “Image Shaping” menu, select “Screen Aspect Ratio Adjustment” and then press the [ENTER] key.
 - This should display a circular adjustment pattern. If the adjustment pattern does not appear as a circle (if it looks more like a vertical or horizontal oval), perform the steps below to adjust it. If the adjustment pattern does appear as a circle, press the [ESC] twice to exit the adjustment procedure.
3. On the menu, select “Applicable Screen” and then use the [◀] and [▶] keys to cycle the setting and select “Auto Detect”, “16:10”, “16:9” or “4:3”.
 - Select the setting that causes the adjustment pattern to become most circular. If none of the settings produces a circle, proceed with step 4.
4. On the menu, select “Adjust Aspect Ratio” and then use the [◀] and [▶] keys to adjust the adjustment pattern until it becomes a circle.
5. After everything is the way you want, press the [ESC] key twice to exit the adjustment procedure.



Normal Operation after Getting Ready

After you finish the procedure under “Getting Ready” (page E-11), you will be able to use the projector system (Control Box plus one or two projectors) as if it were a single projector. Perform the procedures in this section using the Control Box remote controller.

To turn on Projector System power

Press the [ALL] key. This will turn the Control Box, Projector A, and Projector B power. If you are using a configuration that has multiple Control Boxes, press the numbered power key ([1] through [4]*) assigned to the Control Box you want to turn on.

* For more information, see “To configure initial Control Box settings” (page E-14) and “Control Box Power On/Off” (page E-14).

To change the input source

When both HDMI input and RGB (or component) input sources are connected to the Control Box, you can use the remote controller [INPUT] key to toggle between them. Follow the instructions on the dialog box that appears when you press the key.

To turn off Projector System power

Press twice the [ALL] key or the numbered power key ([1] through [4]) assigned to the Control Box you want to turn off.

NOTE

- For full details about using your Projector System, see the “YA-S10 User’s Guide”.

Product Specifications

| | |
|--|--|
| Model Name | YA-S10 |
| Control Box Terminals | HDMI port: HDMI TYPE A (Output: 2 channels, Input: 1 channel) Serial port: D-Sub 9-pin (Output: 2 channels, Input: 1 channel) RGB/component port: Mini D-sub 15-pin (Input: 1 channel) LAN port: RJ-45 (Input: 1 channel) |
| Environment | Operating temperature: 5 to 35°C Operating humidity: 20 to 80% (non-condensation) Operating altitude: 0 to 2,000 meters above sea level |
| Power Requirements | 100VAC 240VAC, 50/60Hz |
| Power Consumption (Rated Voltage/Rated Current) | 12VDC 1.3A |
| Dimensions | Approximately 216.3 (W) × 148.2 (D) × 29 (H) mm (8.5" × 5.8" × 1.1") (Excluding projections) |
| Weight | Approximately 0.67kg (1.5lbs) |

Specifications are subject to change without notice.

GPL and LGPL

- (1) This product uses software (This Software) that comes under the GNU General Public License (GPL) and GNU Lesser General Public License (LGPL). In accordance with the GPL and LGPL, the source code of This Software is open source code. Anyone who wishes to view the open source code can do so by downloading it from the CASIO Projector download site. Whenever copying, modifying, or distributing This Software, be sure to do so in accordance with the terms and conditions of the GPL and LGPL.
- (2) This Software is provided "as is" without expressed or implied warranty of any kind. However, this disclaimer does not affect the terms and conditions of the warranty of the product itself (including malfunctions due to This Software).
- (3) The full text of the GPL and LGPL that covers this software can be found at the back of the "YA-S10 User's Guide".

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THIS UNIT IN THE U.S.A. (not applicable to other areas).

NOTICE

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

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

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Proper connectors must be used for connection to host computer and/or peripherals in order to meet FCC emission limits.

Declaration of Conformity

Model Number: YA-S10

Trade Name: CASIO COMPUTER CO., LTD.

Responsible party: CASIO AMERICA, INC.

Address: 570 MT. PLEASANT AVENUE, DOVER, NEW JERSEY 07801

Telephone number: 973-361-5400

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions:

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



Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

FOR CALIFORNIA USA ONLY

Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate.

CAN ICES-3(B)/NMB-3(B)

HDMI[®]
HIGH-DEFINITION MULTIMEDIA INTERFACE



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Responsible within the European Union:
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Casio-Platz 1, 22848 Norderstedt, Germany

EEE Yönetmeliğine Uygundur

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