

YA-S10

User's Guide

- Be sure to read the precautions in the YA-S10 Setup Guide before using the Geometric Correction Box and your Projector System.
- Perform the setup steps provided in the YA-S10 Setup Guide before using the Geometric Correction Box and your Projector System.
- 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/>

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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 (referred to as “Control Box” in this manual) connected to one or two separately available CASIO projectors
- Use the Control Box remote controller (YT-200) [▲], [▼], [◀], and [▶] keys to select setting items on a dialog box or menu displayed on the projection screen. Use these keys when instructed to “select xxx” in this manual.



Note

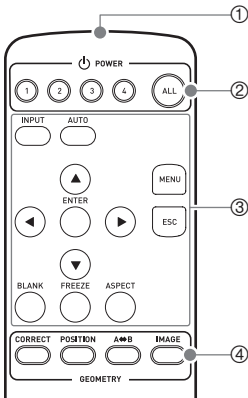
Some models covered by this manual may not be available in certain geographic areas.

Performing Control Box Operations

Control Box operations can be controlled using either its remote controller (YT-200) or the Control Box keys. The Control Box remote controller lets you control your Projector System just as if it were a single projector.

Control Box Remote Controller

The Control Box has signal receivers on the front and back. Point the Control Box remote controller signal emitter at one of the receivers when performing an operation.



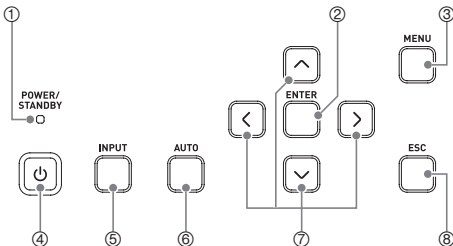
- ① Remote controller signal emitter
- ② [ALL], [1], [2], [3], [4] keys
Used for turning power on or off. For more information, see the YA-S10 Setup Guide.
- ③ [INPUT], [AUTO], [▲], [▼], [◀], [▶], [ENTER], [MENU], [ESC], [BLANK], [FREEZE], [ASPECT] keys
Used for various projection operations. These operations are described in detail later in this manual.
- ④ [CORRECT], [POSITION], [A<=>B], [IMAGE] keys
Used for shaping the projected image. For more information, see the YA-S10 Setup Guide.



Important!

To avoid running down the batteries, store the remote control unit so its buttons are not pressed inadvertently.

Control Box Keys and Indicators



- ① POWER/STANDBY indicator
- ② [ENTER] key
- ③ [MENU] key
- ④ [⏻] (Power) key
- ⑤ [INPUT] key
- ⑥ [AUTO] key
- ⑦ Cursor keys (▲/▼/◀/▶)
- ⑧ [ESC] key

To change the input source (INPUT)

1. Press the [INPUT] key.
2. On the “Input” dialog box that appears, select the input source you want and then press the [ENTER] key.

Adjusting an RGB Input Signal Automatically (AUTO)

If the image of an RGB signal being input from a computer is not being projected correctly, press the [AUTO] key to adjust it automatically. If this does not improve the image, check the points described below.

- Check to make sure that the signal is a type that is supported by the Control Box. See “Supported Signals” (page 18) for more information.
- On the Setup Menu, change the “Option Settings → Auto Adjust” setting (page 9).

Blanking the Image and Muting the Audio (BLANK)

Pressing the [BLANK] key cuts off the image and the audio*1 from the input source. This will cause the projected image to change to a black screen (initial default option), blue screen, a preset logo, or a custom logo.*2

To restore the image and audio, press the [BLANK] key again or press the [ESC] key.

- *1 The Projector System connected to the Control Box will output audio from projector speakers when an HDMI input source is selected.
- *2 Blank screen projection can be configured using the “Screen Settings → Blank Screen” setting (page 9).

Freezing an Image (FREEZE)

Pressing the [FREEZE] key freezes the current input source image. To return to the real-time input source image, press the [FREEZE] key again or press the [ESC] key.

Changing the Aspect Ratio of the Input Source Image (ASPECT)

Each press of the [ASPECT] key cycles the aspect ratio of the input source image in one of the sequences shown below.

HDMI (PC) or RGB input source:

→ Normal → Full →

HDMI (DTV) or Component input source:

→ Normal → Full → 16:9 → Letter Box →

Select “Normal” to maintain the original aspect ratio of the input source image, and “Full” to project the maximum size image that will fit within the target screen. The “Letter Box” option resizes the source image horizontally so it is 1280 dots wide, maintaining the aspect ratio of the source image. The top and bottom portions of the source image are cut off so only the area in the vertical middle, measuring 800 vertical dots, is visible in the projected image. Selecting “16:9” will resize the input source image to an aspect ratio of 16:9 for projection.



Important!

Note that enlarging or reducing the size of an image for commercial purposes or public presentation may infringe on the legally protected copyright of the copyright holder of the original material.

Adjusting the Volume Level

Use the procedures below to adjust the volume level of the audio that is output by the projector speakers, or to mute audio output.



Note

The projector outputs audio only when HDMI input is selected with the Control Box and an HDMI audio signal is being input to the Projector System.

To adjust the volume level of the projector speakers

1. Press the [MENU] key to display the setup menu.
2. Select “Volume Adjustment” and then press the [ENTER] key.
3. Use the [◀] and [▶] keys to adjust the volume level. When it is at the setting you want, press the [MENU] key.

To mute projector speaker output

1. Press the [MENU] key to display the setup menu.
2. Select “Volume Adjustment” and then press the [ENTER] key.
3. Select “Mute” and then press the [◀] and [▶] keys to change the setting to “On”.
4. Press the [MENU] key.

To unmute projector speaker output, use the [◀] and [▶] keys in step 3 of the above procedure to change the setting to “Off”, or perform the operation under “To adjust the volume level of the projector speakers”.

Creating a Custom Logo

You can capture a projected screen and save it as image data in the Control Box’s built-in memory. Image data you save in Control Box memory is called a “Custom Logo”.

The following are ways you could use a custom logo.

- As the “No Signal Screen”, which is projected whenever there is no signal being input into the Control Box.
- As the “Blank Screen”, which is projected when the [BLANK] key is pressed.



Important!

Note that using the Control Box to register image data for commercial purposes or public presentation may infringe on the legally protected copyright of the copyright holder of the original material.

Capturing a Screen and Saving It as the Custom Logo



Important!

- As soon as you start a screen capture with the operation below, any custom logo currently stored in Control Box memory is deleted.
- If the capture operation is interrupted for any reason before it is complete, your custom logo data will revert to the initial factory default image (light green image). However, depending on the timing of the interruption, you may end up with a partial capture with part of the screen image being registered as your custom logo.

1. Project the image you want to register a custom logo onto the projection screen.

- If you are using an RGB or HDMI (PC) input source, use a resolution that is one of the following: 1366 × 768, 1360 × 768, or 1280 × 800 or lower. You will not be able to execute the screen capture operation if the projected image resolution is not one of those defined above.
- Only the following component signals are supported for capture: 480i, 480p, 576i, 576p. Capture cannot be performed using an input source with a component signal that is not one of these.
- Capture cannot be performed while protected contents are being projected.

2. Press the [MENU] key to display the setup menu.

3. Select “Option Settings” and then press the [ENTER] key.

4. Select “Custom Logo Capture” and then press the [ENTER] key.

5. In response to the “Starts capture of the current screen. OK to continue?” dialog box that appears, select “Yes” and then press the [ENTER] key.

- The image being projected at the moment you press the [ENTER] key will become frozen on the screen and capture will begin.
- If the image is saved successfully, the message “Screen capture complete.” will appear momentarily.

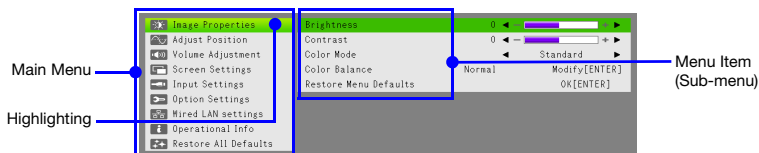
Specifying a Custom Logo as the No Signal Screen or Blank Screen

Press the [MENU] key to display the setup menu and then perform one of the procedures below.

- Use “Screen Settings → No Signal Screen” (page 9) to select “Custom Logo”.
- Use “Screen Settings → Blank Screen” (page 9) to select “Custom Logo”.

Using the Setup Menu

Pressing the [MENU] key displays the Setup Menu shown below on the projection screen. You can use this menu to make adjustments to the projected image (brightness, contrast, etc.) and to change Control Box settings.



Basic Setup Menu Operations


To do this:	Perform this operation:
Display the Setup Menu Exit the Setup Menu	Press the [MENU] key. Pressing the [MENU] key to exit the Setup Menu will save the settings you configured while it was displayed.
Select a menu item	Use the [▲] and [▼] keys to move the highlighting to the menu that contains the menu item you want to select and then press the [ENTER] key. Next, use the [▲] and [▼] keys to move the highlighting to the menu item you want to select.
Configure the setting of a menu item	<ul style="list-style-type: none"> For a menu item that has ◀ and ▶ arrows to the right, use the [◀] and [▶] keys to change the setting. For a menu item that has “Modify [ENTER]” or “OK [ENTER]” to the right, press the [ENTER] key to display a dialog box for configuring the setting.

Setup Menu Settings

A letter in parentheses to the right of a menu item name indicates an image input source. The setting of such a menu item is applied only when the specified input source is selected. The meaning of each letter is R for RGB input, C for component input, and H for HDMI (PC) input, and D for HDMI (DTV) input. A menu item that does not have a letter next to it is applied regardless of the image input source.

Use this menu item:	To do this:
Image Properties → Brightness	Adjust projected image brightness.
Image Properties → Contrast	Adjust projected image contrast.
Image Properties → Color Mode*1	Select one of the following projected image color modes: “Standard”, “Graphics”, “Theater”, “Blackboard”, “Game”.
Image Properties → Color Balance	Select one of the following color balance presets: “Warm”, “Normal”, “Cold”. Also can be used to separately adjust red, green, and blue.
Image Properties → Restore Menu Defaults	Return the “Brightness”, “Contrast”, “Color Mode”, and “Color Balance” settings to their initial defaults.
Adjust Position → Vertical Position (RC)	Adjust the vertical and horizontal positions of the input source image in relation to the target screen.
Adjust Position → Horizontal Position (RC)	

Use this menu item:	To do this:
Adjust Position → Frequency (R)	Adjust the frequency of the RGB input signal when vertical lines appear in the projected image because the Control Box is unable to follow the RGB input signal frequency. If the projected image disappears from the display during adjustment, press the [AUTO] key to restore it before adjusting. For more information, see “Adjusting an RGB Input Signal Automatically (AUTO)” (page 4).
Adjust Position → Phase (R)	Adjust the phase of the RGB input signal when the image flickers because the Control Box phase and RGB input signal phase do not match.
Adjust Position → Restore Menu Defaults (RC)	Return the “Vertical Position”, “Horizontal Position”, “Frequency”, and “Phase” settings to their initial defaults.
Volume Adjustment → Volume (HD)	See “Adjusting the Volume Level” (page 6) for more information.
Volume Adjustment → Mute (HD)	
Volume Adjustment → Restore Menu Defaults (HD)	Return the “Volume” and “Mute” settings to their initial defaults.
Screen Settings → Aspect Ratio	Change the aspect ratio of the input source image. This setting is the same as the [ASPECT] key setting (page 5).
Screen Settings → No Signal Screen	Specify the type of screen to be projected when there is no input signal to the Control Box (No Signal Screen) or when the screen has been blanked by pressing the [BLANK] button (Blank Screen). Options are “Blue” (blue screen), “Black” (black screen), “Logo” (preset logo screen) and “Custom Logo” (page 6).
Screen Settings → Blank Screen	
Screen Settings → Image Shaping	Display the same “Image Shaping” menu that appears when the [CORRECT] key is pressed. For more information, see the YA-S10 Setup Guide.
Screen Settings → Restore Menu Defaults	Return the “No Signal Screen” and “Blank Screen” settings to their initial defaults. This operation does not affect “Image Shaping” menu settings.
Input Settings → COMPUTER Terminal (RC)	Specify whether the COMPUTER terminal input signal type should be identified automatically, or fixed at RGB signal or component signal.
Input Settings → Signal Name Indicator	Specify whether the newly selected input signal type should be displayed (On) or not displayed (Off) when the [INPUT] key is pressed to change the input signal.
Input Settings → Restore Menu Defaults	Return the “COMPUTER Terminal” and “Signal Name Indicator” settings to their initial defaults.
Option Settings → Auto Adjust (R)	Specify the auto frequency and phase adjustment setting. On: Auto Adjust enabled. Off: Auto Adjust disabled.
Option Settings → Signal Search (R)	Use this setting when the Control Box has problems automatically detecting an RGB input signal. 1: Initial default setup 2: Select when having problems projecting a 1280 × 768 or 1400 × 1050 signal. 3: Select when having problems projecting a 1360 × 768 signal.
Option Settings → Eco Mode*1	Specify either power saving or projection brightness as the priority. On: Power Saving enabled. Off (Normal): Power saving disabled, normal brightness. Off (Bright): Power saving disabled, maximum brightness.
Option Settings → Auto Power Off	Enable or disable Auto Power Off, which automatically turns off Projector System power after 10 minutes of inactivity (no operation performed and no signal input). Options are “Off” (Auto Power Off disabled) and “10 min” (Auto Power Off after 10 minutes of inactivity).
Option Settings → Direct Power On	Enable (On) and disable (Off) Control Box auto power on as soon as the Control Box power cord is plugged into a power outlet. The projector(s) connected to the Control Box will also turn on at this time.

Use this menu item:	To do this:
Option Settings → Custom Logo Capture	See “Creating a Custom Logo” (page 6).
Option Settings → Remote Power Numbers	Specify which of the remote controller’s power buttons ([1], [2], [3], [4]) turns on the Control Box. See “Control Box Power On/Off” in the YA-S10 Setup Guide.
Option Settings → Language	Specify the display language. English, French, German, Italian, Spanish, Swedish, Portuguese, Dutch, Norwegian, Polish, Finnish, Czech, Turkish, Russian, Chinese (Simplified), Chinese (Traditional), Korean, Japanese
Option Settings → Restore Menu Defaults	Return the “Eco Mode”, “Auto Power Off”, “Direct Power On”, and “Remote Power Numbers” settings to their initial defaults. When the input source is RGB, this operation also initializes the “Auto Adjust” setting. This operation does not clear a custom logo saved with “Custom Logo Capture”.
Wired LAN settings → Remote On	Specify whether or not Control Box power can be turned on remotely via wired LAN. Selecting “Enable” enables remote on, while “Disable” disables it.  Important! _____ This item automatically becomes “Disable” following a “Wired LAN settings → Initialize wired LAN settings” or “Restore All Defaults → Restore All Defaults” operation. If you are operating the Projector System using a wired LAN setting, be sure to change this setting back to “Enable” after initialization.
Wired LAN settings → Wired LAN info	Display the information described below. Box Name: Control Box name MAC Address: Control Box unique MAC address IP Address: Control Box IP address
Wired LAN settings → Initialize wired LAN settings	Initialize the “Remote On” setting and Control Box LAN settings (see “LAN Settings” on page 13).
Operational Info	Display the information below. Resolution information is available only when the input source is RGB or HDMI (PC). Input Signal, Signal Name, Resolution, Horizontal Frequency, Vertical Frequency, Scan System, Light Time (A), Light Time (B)
Restore All Defaults → Restore All Defaults	Initialize all Setup Menu item settings, except for those listed below. – Screen Settings → Image Shaping – Option Settings → Language – Custom logo saved with “Custom Logo Capture”

*1 The setting of this item cannot be configured when the Control Box is connected to any one of the projector models below.
XJ-A131, XJ-A141, XJ-A146, XJ-A241, XJ-A246, XJ-A251, XJ-A256
You can use the projector’s remote controller to change the corresponding settings on the projector.

Using Wired LAN to Control the Projector System

The Projector System can be controlled by a computer or other external device by connecting the device to the Control Box's LAN port.

Supported External Devices

- The Projector System supports the commands of the Crestron Electronics controller and software (RoomView®).
<http://www.crestron.com/>
- Information about the types of external devices that can be connected to the LAN port and that can control the Projector System, and about the control commands supported for each external device will be published on the CASIO website below as such information becomes available.
<http://www.casio-intl.com/support/>

Using a Computer to Configure Control Box LAN Settings

This section explains how to establish a LAN connection between the Control Box and a computer, and then use a Web browser on the computer to configure Control Box LAN settings.



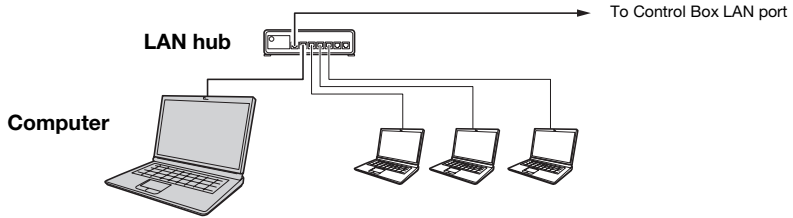
Important!

If this is the first time you are connecting a computer to the Control Box or if you are connecting after executing “Initialize wired LAN settings” on the “Wired LAN settings” menu, you need to perform the steps below before trying to control the Control Box over a LAN connection.

1. Connect the Control Box and computer to a network that includes a machine with a DHCP server function.
2. Using the IP address automatically assigned to the Control Box by the DHCP server, display the Control Box System Admin page.
3. Configure Control Box LAN settings using the procedure below.

To set up a Control Box and computer LAN connection

1. **Connect the Control Box LAN port to the same LAN hub or other network device where the computer is connected.**



- In a configuration like the one in the illustration above, you should normally use straight type LAN cables. If you are connecting the Control Box LAN port directly to the LAN port of a computer, use a cross type LAN cable.
2. **Perform the steps below to get the Control Box IP address.**
 - (1) Press the [MENU] key to display the setup menu.
 - (2) Select “Wired LAN settings → Wired LAN info”.
 3. **On the computer, start up a Web browser.**
 4. **In the Web browser address bar, input the Control Box IP address and then press the [Enter] key.**
 - For example, if the Control Box IP address is 192.168.100.10, input `http://192.168.100.10`.
 - This will display the Control Box System Admin page. For information about what you need to do next, see “To configure Control Box LAN settings” below.

To configure Control Box LAN settings

1. **Use the computer’s Web browser to display the Control Box System Admin page.**
 - See “To set up a Control Box and computer LAN connection” (page 12).
2. **Click “System Admin”. On the screen that appears, input the password (initial default: admin), and then click the [Login] button.**
 - This displays the “Status” screen.
3. **On the left pane, click “Setup” to display the “Setup” screen.**
4. **Change a setting by entering a value or selecting an option.**
 - For details about each setting item, see “LAN Settings”, below.
5. **To apply any settings that you configure, click the [Apply] button.**

LAN Settings

Setting Name		Description
IP Setup	Obtain an IP address automatically/ Use the following IP address	Specifies whether you want to obtain an IP address automatically or specify an IP address manually. <ul style="list-style-type: none">● Selecting “Use the following IP address” applies IP address, subnet mask, and default gateway information that you input manually.● Specification of IP address, subnet mask, and default gateway information is not necessary (and is disabled) when you select “Obtain an IP address automatically”. Initial Default: Obtain an IP address automatically
	IP Address	Specifies the Control Box’s IP address.
	Subnet Mask	Specifies a subnet mask value, which specifies the IP address range of the subnet to which the Control Box belongs.
	Default Gateway	Specifies the subnet default gateway.
Box Name		Input up to 20 characters for a name to be used to identify the Control Box.
Remote on		Specifies whether the Control Box can be turned on via wired LAN while the Control Box is in standby (Control Box off with power being supplied). Enable: Power on enabled. Disable: Power on disabled (initial default).

To change the login password

- 1. Use the computer’s Web browser to display the Control Box System Admin page.**
 - See “To set up a Control Box and computer LAN connection” (page 12).
- 2. Click “Change Password”.**
- 3. On the screen that appears, input the new password twice, once in the “New Password” input box and again into the “Reinput Password” input box.**
 - You can enter up to eight single-byte characters as the password.
 - Note that you will need the password you enter here the next time you log in to the System Admin page. Make sure you do not forget the password you enter. If you keep a written record of the password, take care to ensure that it does not become lost or fall into the wrong hands.
- 4. To apply the password change, click the [Apply] button.**

To return Control Box LAN settings to their factory defaults

- 1. Use the computer’s Web browser to display the Control Box System Admin page.**
 - See “To set up a Control Box and computer LAN connection” (page 12).
- 2. Click “Restore Factory Defaults”.**
- 3. On the screen that appears, click the [Apply] button.**

Operating the Projector System Using RS-232C Commands

You can use a commercially available serial cable (cross) to connect a computer to the Control Box and then use RS-232C commands to control the Projector System.

Command Send Format

Communication Protocol	Configure your computer's serial port with the following settings.	
	Data Rate	19200bps
	Data Bit	8bit
	Parity	None
	Stop Bit	1bit
	Flow Control	None
Read Command	Send this command when you want information about the current setup of the Control Box.	
	Send Format	(<command>?)
	Receive Format	(<applicable command setting range>,<current setting>)
	Command Send Example	<p>[[V][L][?]] sent from the computer to the Control Box.</p> <p style="text-align: center;">↓</p> <p>[[0]-[30].[15]] returned from the Control Box to the computer.</p>
Write Command	Send this command to control the Control Box (power on/off, etc.) and to write data to it.	
	Send Format	(<command><setting value>)
	Command Send Example	<p>[[V][L][0]] sent from the computer to the Control Box.</p> <p style="text-align: center;">↓</p> <p>Control Box volume setting becomes 0.</p>

- All commands use ASCII characters and decimal format integers.
- The Control Box will return a question mark (?) when it is sent a command it cannot recognize. Also, any command that attempts to set a value that is outside the applicable allowable range will be ignored.
- If the Control Box is performing a process initiated by a previously sent command, a Control Box key operation, or a remote controller key operation, send of the next command must wait until the Control Box completes the previous process.

Command List

Only the following functions are supported while the Control Box is turned off. Do not try to send any other command to the Control Box.

- Power On/Off: Read
- Power On: Write

R: Read enabled W: Write enabled

Function	Command	RW	Setting Range
Power On/Off:	PWR	RW	0: Off, 1: On
Input Switching: 0: Switches the input source to the COMPUTER terminal and changes the COMPUTER terminal setting to RGB. 1: Switches the input source to the COMPUTER terminal and changes the COMPUTER terminal setting to Component. 6: Switches the input source to the COMPUTER terminal and changes the COMPUTER terminal setting to Auto. 7: Switches the input source to HDMI.	SRC	RW	0: RGB, 1: Component, 6: Auto1 (RGB/Component), 7: HDMI
Blank Screen: Turns the blank screen on or off.	BLK	RW	0: Off, 1: On
Volume: Specifies the volume level for output of HDMI audio input to the Control Box when it is output from projector speakers or line output.	VOL	RW	0 to 30*1
Color Mode: Selects the color mode.	PST	RW	1: Graphics, 2: Theater, 3: Standard, 4: Blackboard, 5: Game
Aspect Ratio: Specifies the aspect ratio.*2	ARZ	RW	0: Normal, 1: 16:9, 3: Letter Box, 4: Full
Get Light Time: Executing this command gets the light use time of the projector connected to the Control Box. If there are two projectors, it gets the larger light use time of the two.	LMP	R	0- Unit: Hours

*1 The maximum allowable volume level value depends on the connected projector(s).

*2 This setting is equivalent to the setting configured with "Changing the Aspect Ratio of the Input Source Image (ASPECT)" (page 5).

Indicator

The POWER/STANDBY indicator of the Control Box will light, flash, and turn off as described below to indicate the current status of the Control Box.

Unlit: Control Box not connected to a power outlet

Flashing red: Control Box initializing (Power cannot be turned on at this time.)

Lit red: Control Box standby mode (ready to be turned on)

Flashing green: Control Box starting up (immediately after power is turned on)

Lit green: Power on and Control Box operating normally



Important!

A flashing orange POWER/STANDBY indicator indicates that a fatal error has occurred in the Control Box. If this happens, turn off the Control Box and contact your original retailer or specified repair service.

Troubleshooting

Check the following items whenever you experience any problem with the Projector System.

Problem	Cause and Required Action
Power does not turn on.	<ul style="list-style-type: none"> ● Make sure that the Control Box and projector power cords are plugged into a power outlet. ● You may be pressing a numbered power key on the remote controller that is different from the one assigned to the Control Box by the “Option Settings → Remote Power Numbers” setting. Press the [ALL] key on the remote controller or the [⏻] (Power) key on the Control Box. After turning on the Control Box, use the Setup Menu (page 10) to check which remote controller number key it is assigned to. ● The Control Box may not be connected to the projector(s) with RS-232C cable(s). Refer to the “Wiring” section of the “YA-S10 Setup Guide” and check to make sure that all connections are correct. ● If, after checking the above, you are still unable to turn on power, the problem may be a fatal Control Box error. Contact your original retailer or a specified repair service.
A remote controller does not work.	<ul style="list-style-type: none"> ● You may be trying to use a projector remote controller (YT-120). Use the Control Box remote controller (YT-200) to perform Control Box operations. ● The remote controller batteries may be dead. Replace the batteries.
No sound.	<ul style="list-style-type: none"> ● With this Projector System, audio is output from the projector speakers (or the line output terminal) only when the input source is HDMI. Audio is not output from the projectors when the input source is RGB or component. ● If audio is not output when the input source is HDMI, try adjusting the Control Box volume level setting (page 6). Also, check if the input source is outputting audio.
No projection image.	<p>The Control Box may not be connected to the projector(s) with HDMI cable(s). Refer to the “Wiring” section of the “YA-S10 Setup Guide” and check to make sure that all connections are correct.</p>
Blurred projection image.	<p>When there are two projectors connected to the Control Box, the positions and/or “Image Shaping” settings of the two projectors may be misaligned. Perform the procedures under “To shape the image to match the projection screen (two projectors)” and “To adjust the position of the projector (two projectors)” in the YA-S10 Setup Guide.</p>

Appendix

Supported Signals



Important!

Even if a signal is listed in the table below, it does not guarantee that you will be able to display its images correctly.

RGB Signal

The values to the left of the slash symbol (/) indicate resolution, while the value to the right indicates vertical frequency (Hz).

VESA

Signal Name	*1
640 × 480/60	31.5
640 × 480/72	37.9
640 × 480/75	37.5
640 × 480/85	43.3
800 × 600/56	35.2
800 × 600/60	37.9
800 × 600/72	48.1
800 × 600/75	46.9
800 × 600/85	53.7
1024 × 768/60	48.4
1024 × 768/70	56.5

Signal Name	*1
1024 × 768/75	60
1024 × 768/85	68.7
1152 × 864/75	67.5
1280 × 768/60	47.8
1280 × 800/60	49.7
1280 × 960/60	60
1280 × 960/85	85.9
1280 × 1024/60	64
1280 × 1024/75	80
1280 × 1024/85	91.1
1360 × 768/60	47.7

Signal Name	*1
1366 × 768/60	47.7
1400 × 1050/A*2	65.3
1440 × 900/60	55.9
1600 × 1200/60	75
1680 × 1050/60	65.3

Other

Signal Name	*1
1152 × 864/70	64
1400 × 1050/B*2	64

The value to the right of the slash symbol (/) in the signal names below indicates vertical frequency (Hz).

Component Signal

Signal Name	*1
HDTV 1080p/50	56.3
HDTV 1080p/60	67.5
HDTV 720p/50	37.5
HDTV 720p/60	45
HDTV 1080i/50*3	28.1
HDTV 1080i/60	33.7
SDTV 576p/50	31.3
SDTV 576i/50*3	16.6
SDTV 480p/60	31.5
SDTV 480i/60	15.7

HDMI Signal (PC)

Signal Name	*1
800 × 600/60	37.9
1024 × 768/60	48.4
1280 × 768/60	47.8
1280 × 800/60	49.7
1280 × 960/60	60
1280 × 1024/60	64
1400 × 1050/60	65.3

HDMI Signal (DTV)

Signal Name	*1
SDTV 480p/60	31.5
SDTV 576p/50	31.25
HDTV 720p/50	37.5
HDTV 720p/60	45
HDTV 1080i/50*3	28.13
HDTV 1080i/60	33.75
HDTV 1080p/50	56.25
HDTV 1080p/60	67.5

*1: Horizontal Frequency (kHz)

*2: Vertical Frequency 60Hz

*3: Image distortion may occur when projecting these signals. If this happens, turn on the progressive output setting of the image source device (DVD player, etc.) For more information, see the user documentation that comes with the image source device.

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