

Multimedia LCD Projector

CP-731i

USER'S MANUAL

Please read this user's manual thoroughly to ensure correct usage of this projector.

BEDIENUNGSANLEITUNG

Bitte lessen Sie diese Bedienungsanleitung zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION

Nous vous recommandons de lire attentivement ce menuel pour bien assimiler le fonctionnement de l'appareil.

MANUAL D'ISTRUZIONI

Vi preghiamo voler leggere attentamente il manuale d'sitruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO

Lea cuidadosamente este manual del usuario para poder utilizar corretamente el producto.

GEBRUIKSAANWIJZNG

Lees voor het qebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK

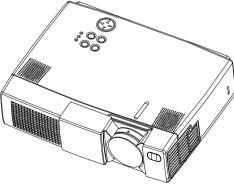
Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

INSTRUÇÕES DO PROPRIETÁRIO

Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do usuário.

TECHNICAL

REGULATORY NOTICES



ENGLISI

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

EDERLANDS

NORSK

PORTGE

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Multimedia LCD Projector

Thank you for purchasing this LCD projector.



Please read the accompanying manual "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" thoroughly to ensure correct usage of this projector. After reading, store this instruction manual in a safe place for future reference.

NOTE:

- The information in this manual is subject to change without notice.
- The manufacturer assumes no responsibility for any errors that may appear in this manual
- The reproduction, transmission or use of this document or contents is not permitted without express written authority.

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- Apple, Mac and ADB are registered trademarks of Apple Computer, Inc.
- VESA and SVGA are trademarks of the Video Electronics Standard Association.
- Windows is a registered trademark of Microsoft Corporation.
- Carefully observe the trademarks and registered trademarks of all companies, even when not mentioned.

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FEATURES

This multimedia LCD projector is used to project various computer signals as well as NTSC / PAL / SECAM video signals onto a screen. Little space is required for installation and large images can easily be realized.

Outstanding brightness

The UHB lamp and high-efficiency optical system assure a high level of brightness.

Partial magnification function

Interesting parts of images can be magnified for closer viewing.

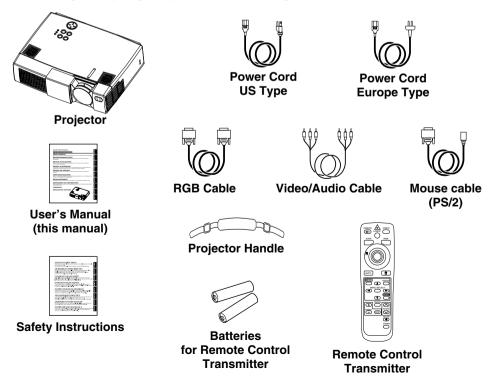
• Distortion correction function Distortion-free images are quickly available.

BEFORE USE

Contents of package

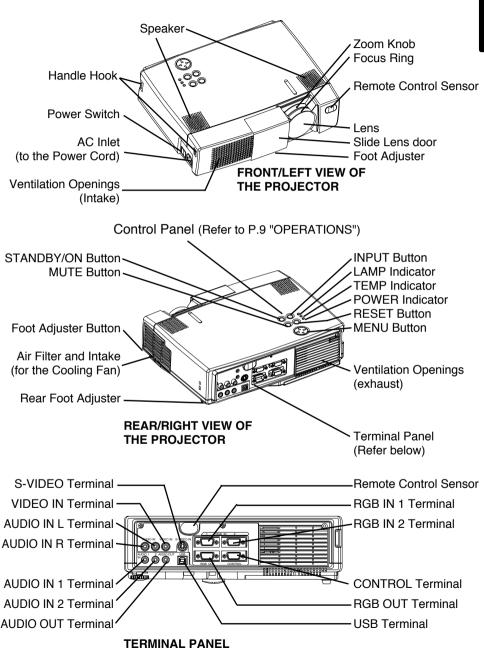
Make sure all of the following items are included in the package. If anything is missing, please contact BOXLIGHT at 800-762-5757 or 360-779-7901.

NOTE: Keep the original packing material for future shipments.



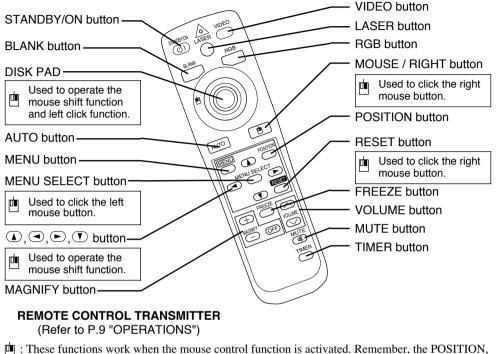
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Part Names



ENGLISH

Part Names (continued)



BLANK ON and MENU ON functions disable the mouse control function.

WARNING

Never look directly into the laser beam outlet or point the laser beam at other people. The laser beam can cause vision problems.



NOTE: To prevent any malfunction;

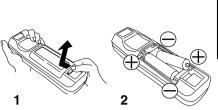
- Do not give the remote control transmitter any physical impact. Do not drop.
- Do not place heavy objects on the remote control transmitter.
- Do not wet the remote control transmitter or place it on any wet object.
- Do not place the remote control transmitter close to the cooling fan of the projector.
- Do not disassemble the remote control transmitter if it malfunctions. Please contact BOXLIGHT.

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Installing the Batteries

Install the AA batteries into the remote control transmitter.

- 1. Remove the battery cover.
 - Push the knob while lifting up the battery cover.
- Load the batteries. Make sure the plus and minus poles are correctly oriented.
- 3. Close the battery cover.



CAUTION

- Use only the specified batteries with this remote control transmitter. Also, do not mix new and old batteries. This could cause battery cracking or leakage, which could result in fire or personal injury.
- When loading the batteries, make sure the plus and minus terminals are correctly oriented as indicated in the remote control transmitter. Incorrect orientation could cause battery cracking or leakage, which could result in personal injury or pollution of the surrounding environment.
 - When you dispose of the battery, follow the law in your area or country.
 - Keep the battery away from children and pets.
 - When not using the remote for an extended period, remove the batteries from the remote control transmitter.

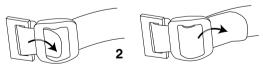
NOTE: Replace the batteries when remote control transmitter operation becomes difficult.

Attaching the Projector Handle

Attaching the enclosed handle needed.

- 1. Raise up the handle hook, and pass one end of the handle through the hole of handle hook.
- 2. Buckle the end of the handle, per diagram at right.
- 3. Fix the other end of the handle to the other handle hook in the same way.





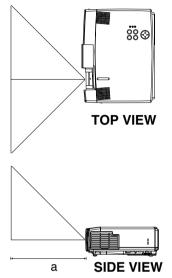
CAUTION

Make sure the handle is firmly attached before carrying the projector with the handle. If the projector is dropped, it could result in an injury, and continued use could result in fire or electrical shock.

INSTALLATION

Installation of the Projector and Screen

Refer to the drawing and table below to determine the screen size and projection distance.



a: Distance from the LCD projector to the screen. The projection distance shown in the table below are for full size (1024 x 768 dots) images.

Screen size	a (inches)	
(inches)	Min.	Max.
40	65	78
60	98	117
80	131	157
100	163	196
120	196	236
150	246	295
200	328	394

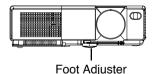
Table 1. Installation Reference

CAUTION

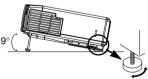
- Install the projector in a suitable environment according to instructions of the accompanying manual "SAFETY INSTRUCTIONS" and this manual.
- Use the liquid crystal projector at the horizontal position only. If you use this projector by the lens up position, the lens down position or the side up position, this may cause the heat inside to build up and cause damage. Be especially careful not to install it with ventilation holes blocked.

Angle Adjustment

Use the foot adjuster on the bottom of the projector to adjust the projection angle. It is variable within 0° to 9° approximately.







Rear Foot Adjuster

- 1. Lift up the front side of the projector, and pressing
- the foot adjuster button, adjust the projection angle.
- 2. Release the button to lock at the angle to be fixed.
- 3. Turn the rear foot adjuster to adjust the left-right slope.

CAUTION

Do not release the foot adjuster button unless the projector is being held; otherwise, the projector could overturn or the fingers could get caught and cause personal injury.

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Cabling

RGB signal input:

Connect the RGB IN 1 or 2 terminal of the projector to the RGB signal output of the computer by the enclosed RGB cable.

For some modes, the optional Mac adapter is necessary. Consult BOXLIGHT if you have any questions regarding connection to an Apple computer.

Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

Audio signal input (from computer) :

Connect the AUDIO IN 1 or 2 terminal of the projector to the audio signal output of the computer by the optional audio cable.

Video signal input:

Connect the VIDEO IN terminal of the projector to the video signal output of the video tape recorder by the enclosed video/audio cable.

For S-Video signal, use the S-VIDEO IN terminal of the projector and the optional S-Video cable with Mini DIN 4-pin jack.

Audio signal input (from video tape recorder) :

Connect the AUDIO IN R and L terminals of the projector to the audio output of the video tape recorder by the enclosed video/audio cable with RCA jack.

RGB signal output:

Connect the RGB OUT terminal of the projector to the RGB signal input terminal of the monitor by the optional RGB cable with D-sub 15-pin shrink jack.

Audio signal output:

Connect the AUDIO OUT terminal of the projector to the audio signal input terminal of the speaker by the optional audio cable with stereo mini jack.

PS/2, ADB , Serial or RS-232C communication:

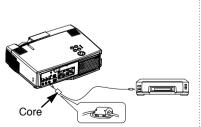
Connect the CONTROL terminal of the projector to the computer by an appropriate cable. For PS/2 mouse control (for IBM and compatible) use the enclosed mouse cable. For others, contact BOXLIGHT to purchase optional cables.

USB communication (mouse control only):

Connect the USB jack (B type) of the projector to the USB jack (A type) of the computer by optional USB cable.

CAUTION

- Incorrect connecting could result in fire or electrical shock. Please read this manual and the separate "SAFETY INSTRUCTIONS".
- Before connecting, turn off power to all devices to be connected, except when connecting the USB cable.



• The cables (Power cord, RGB cable and other cables) may have to be used with the core set to

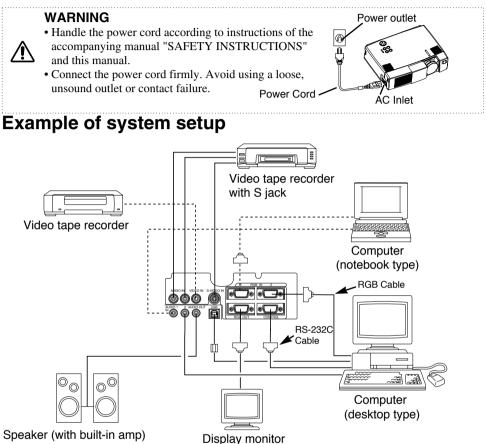
the projector side. Use the cables which are included with the projector or specified.

NOTE:

- Before connecting, read the instruction manuals of the devices to be connected, and make sure that the projector is compatible with the device.
- Secure the screws on the D-sub connectors and tighten.
- Refer to the TECHNICAL section for the pin assign of connectors and RS-232C communication data.

Power Connection

Use the correct one of the enclosed power cords depending on the power outlet to be used. Connect the AC inlet of the projector to the power outlet firmly by the power cord.



NOTE:

When connecting with notebook computer, set to valid the RGB external image output (setting CRT display or simultaneous display of LCD and CRT).Please read instruction manual of the notebook for more information.

Plug & Play

This projector is VESA DDC 1/2B compatible. Plug & play is possible by connecting to a computer that is VESA DDC (Display Data Channel) compatible.

(Plug & play is a system configured with peripheral equipment including a computer and display, and an operating system.

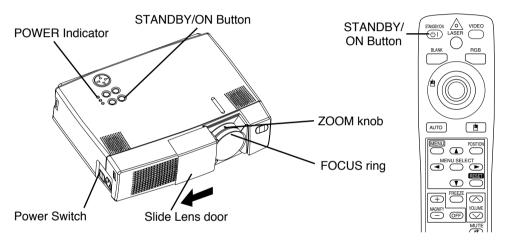
NOTE:

- Use the RGB cable included with this projector when using plug & play. With other cables, pins (12) (14) (15) are sometimes not connected.
- Plug & play is available only when the RGB cable is connected to the RGB IN 1 terminal.

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Switching the Power Supply ON/OFF Switching Power ON

- 1. Check that the power cord is connected correctly.
- 2. Set the power switch to [1]. The standby mode is selected, and the Power indicator is turned to orange.
- 3. Press the STANDBY/ON (b) button on the control panel or the remote control transmitter. Warm-up begins and the Power indicator blinks in green.
- 4. The Power indicator ceases blinking and turns to green when power is on. Open the slide lens door.
- 5. Adjust picture size using the projection lens Zoom Knob.
- 6. Adjust focus using the projection lens Focus Ring.



Switching Power OFF

- 1. Press the STANDBY/ON button on the control panel or the remote control transmitter for approximately two seconds. The projector lamp is extinguished and lamp cooling begins. The Power indicator blinks orange during lamp cooling. Pressing the STANDBY/ON (5) button has no effect while the Power indicator is blinking.
- 2. The system assumes the Standby mode when cooling is complete, and the Power indicator ceases blinking and changes to orange. When the indicator is orange, set the Power switch to [O].
- 3. The Power indicator is extinguished when power is off. Do not forget to close the lens door.



Please read this manual, and the separate "SAFETY INSTRUCTIONS" thoroughly before using the equipment. Always ensure that the equipment is used safely.

NOTE:

- Except in emergencies, do not turn off unless the Power indicator is orange as it will reduce the life of the projector lamp.
- To prevent problems, turn on/off the projector when the computer or video tape recorder is OFF. Providing a RS-232C cable is connected, turn on the computer before the projector.

Basic Operation

The Basic operations shown in Table 2 can be controlled from the projector control panel or the supplied remote control transmitter. (items indicated by * may be used from the control panel) **NOTE:** Use the remote control transmitter at a distance of approximately 3m from the sensor on the

front of the projector, and within a range of 30° left-right. Strong light and obstacles will interfere with operation of the remote control transmitter.

Table 2 . Basic Operation

Item	Description	
INPUT SELECT	$\begin{array}{l} \label{eq:constraint} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	
POSITION	 Set/Clear position adjustment mode: Press POSITION button. The [□] icon is displayed in the POSITION mode. Image position adjustment: Press the ④, ⊙, ④ and ⑦ buttons in the position adjustment mode. Valid only in the MAGNIFY mode with VIDEO/S-VIDEO input. The [□] icon is extinguished, and the position adjustment mode cleared automatically, after approximately ten seconds of inactivity. ⊙, ⊙, ④ and ⑦ buttons may operate as the mouse control button. Refer to P.4. 	
RESET *	 Initialize menu items: Select an item and press the RESET (a) button. Initialize position adjustment: Press the RESET (a) button and the POSITION mode. Valid only when RGB signal is input. Valid except for VOLUME, LANGUAGE and H PHASE. RESET button may operate as the mouse control button. Refer to P.4. 	
MAGNIFY	 Set MAGNIFY mode: Press the MAGNIFY ⊕ button. Move magnified area: Run Position Adjustment in MAGNIFY mode. Adjust magnification: Press MAGNIFY ⊕ / ⊕ in MAGNIFY mode. Clear MAGNIFY mode: Press MAGNIFY ⊕ button. MAGNIFY is cleared by running or setting AUTO, ASPECT, INPUT SELECT or VIDEO, or by changing the input signal. 	
FREEZE	 Set/Clear FREEZE mode: Press FREEZE button. The [II] icon is displayed, and the image frozen, in the FREEZE mode. FREEZE is cleared by running or setting POSITION, VOLUME, MUTE, Auto Adjust, BLANK ON/OFF, or MENU ON/OFF, or by changing the input signal. Do not forget to clear frozen static images. 	

Table 2. Basic Operation (continued)

Item	Description	
VOLUME	Volume adjustment : Reduce VOLUME $\odot \leftrightarrow$ Increase VOLUME \odot	
MUTE *	Set/Clear Mute mode: Press the M No sound is heard in the MUTE m	
AUTO	 Automatic adjustment at RGB input: Press the AUTO button. Horizontal position(H.POSIT), vertical position (V.POSIT), clock phase (H.PHASE), and horizontal size(H.SIZE) are automatically adjusted. Use with the window at maximum size in the application display. Automatic adjustment at VIDEO/S-VIDEO input: Press the AUTO button. A signal type appropriate for the input signal is selected automatically. Valid only when AUTO is set for VIDEO on the menu. This operation requires approximately ten seconds. It may not function correctly with some input signals. 	
TIMER ON/OFF	 Timer start/stop: Press the TIMER button. Count-down and display by the minute from the initial value (1~99) set in TIMER on the Options menu to 0. The timer is not displayed in the BLANK MODE or FREEZE MODE. 	
BLANK ON/OFF	Set/Clear Blank mode: Press the BLANK button. No image is displayed in the Blank mode. The screen color is as set in BLANK on the Image menu.	
MENU ON/OFF *	Menu display start/stop: Press the • The menu display is terminated au seconds of inactivity.	
MENU SELECT	 selected item is displayed on the selected item is displayed on the selecting items such as "BRIG MENU SELECT button may opera Refer to P.4. 	al menu or the single menu. Only the single menu, and other items are ons as with the normal menu. s used. Push the MENU SELECT butto GHTNESS".

OPIERATIONS (continued)

Setup Menu

The following adjustments and settings are possible when SETUP is selected at the top of the menu. Part of the Setup menu differs between RGB input and VIDEO/S-VIDEO input. Select buttons, and menu to red SELECT on

Table 3. S

outtons, and start	em with the (1) and (1) (COLOR BALE) (1) (ASPECT) (1) (ASPECT) (1) (1) (1) (1) (1) (1) (1) (1) (1) (0/S-VI	
SELECT on page	enu size (see Table 2 MENU 112 11).		
Item	Description	RGB	VIDEO S-VIDEO
BRIGHT	Adjustment: Dark \bigcirc \leftrightarrow Light \bigcirc	~	~
CONTRAST	Adjustment: Weak \bigcirc \leftrightarrow Strong \bigcirc	~	~
V POSIT	Adjustment: Down $\bigcirc \leftrightarrow Up \bigcirc$	~	-
H POSIT	Adjustment: Left $\boxdot \leftrightarrow $ Right \bigcirc	~	-
H PHASE	Adjustment: Left	~	-
H SIZE	 Adjustment: Small → Large The image may not be displayed correctly if the horizontal size is excessive. In such cases, press the RESET button, and initialize the horizontal size. 		-
SHARPNESS	Adjustment: Soft $\bigcirc \leftrightarrow$ Clear \bigcirc	-	~
COLOR	Adjustment: Light $ • Dark • $ -		~
TINT	Adjustment: Red \bigcirc \leftrightarrow Green \bigcirc • Valid only when NTSC or NTSC 4.43 signal is received.	-	~
COLOR BAL R	Adjustment: Light	~	~
COLOR BAL B	Adjustment: Light \bigcirc \leftrightarrow Dark \bigcirc	~	~
	Select image aspect ratio: 4:3[$\boxed{\]}$] $\odot \leftrightarrow \boxdot$ 16:9[$\boxed{\]}$]		

SETUP , INPUT , IMAGE , OPT.

0

+1

0

100

100

800

BRIGHT

CONTRAST V POSIT

H PHASE

DLOR BAL R

(, SETUP), INPUT), IMAGE), OPT.

0

+1

+1 0

0

0

0

BRIGHT

CONTRAS

SHARPNESS

COLOR

TINT

COLOR BAL R

	Select image aspect ratio:		
	4:3[[͡͡͡]]		
	Select position of 16:9:[🖾] image:	~	-
	Press 💿 button while 16:9[🖾] is selected.		
	Center \rightarrow T Down \rightarrow T Up (\rightarrow Center T)		
ASPECT	Select image aspect ratio:		
	$4:3[\square] \textcircled{\bigcirc} \leftrightarrow \textcircled{} 16:9[\square] \textcircled{\bigcirc} \leftrightarrow \textcircled{} 4:3 \text{ small}[\square]$		
	Select position of 16:9:[🖾]/4:3 small[🛄] image:	-	~
	Press D button while 16:9[Here]/4:3 small[D] is selected.		
	Center \rightarrow (Down \rightarrow (Up (\rightarrow Center ()) • 4:3 small may not be displayed correctly with some input signals.		

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Input Menu

The following functions are available when INPUT is selected on the menu. Select an item with the (\Box) and (O) buttons, and start or stop operation with the \bigcirc and (O) buttons.

SETUP , INPUT	TAGE TOPT.
RGB VIDEO	fH:38kHz fV:60Hz
AUTO	

Table 4. Input Menu

Item	Description
RGB	 Displays RGB input frequency: Displays the horizontal and vertical sync signal frequency for RGB input. Valid only at RGB input.
VIDEO	 Select video signal type: Select the signal type with the and buttons. Select NTSC, PAL, SECAM, NTSC4.43, M-PAL, or N-PAL as appropriate for the input signal. Auto Adjust is valid at VIDEO/S-VIDEO input when AUTO is selected, and is then used for automatic selection of the signal type. Use this function when the image becomes unstable (eg. the image becomes irregular, or lacks color). Auto Adjust requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem.
AUTO	 Automatic adjustment at RGB input: Select EXECUTE with the button. Horizontal position, vertical position, clock phase, and horizontal size are automatically adjusted when EXECUTE is selected. Use with the window at maximum size in the application display. Automatic adjustment at VIDEO/S-VIDEO input: Select EXECUTE with the button. A signal type appropriate for the input signal is selected automatically when EXECUTE is selected. Valid only if AUTO is selected in VIDEO (see above). This operation requires approximately ten seconds. It may not function correctly with some input signals. Pressing the AUTO button in this case may correct this problem. This function is the same as for Auto Adjust in Basic operation.

Image Menu

The following adjustments and settings are available when IMAGE is selected on the menu. Select an item with the and buttons, and start operation.

SETUP , INPUT	, IMAGE	OPT.
KEYSTONE BLANK		+1
MIRROR		
START UP		

Table 5. Image Menu

Item	Description
KEYSTONE	 Adjustment: Reduce size of bottom of image → Reduce size of top of image When this function is activated, the image may not be displayed correctly with some input signals.
BLANK	 Select blank screen color: Select color with the and buttons. The image is cleared when the BLANK mode is set with BLANK ON, or when there is no signal, and the entire screen is displayed in the selected color.
MIRROR	Operation start/stop: Press the
START UP	 Operation start/stop: Press the or button. Setup initial screen display: Select TURN ON with the button. Clear initial screen display: Select TURN OFF with the button. Note that if TURN OFF is selected the screen is displayed in blue when there is no signal.

Options Menu

The following adjustments and settings are available when OPT. is selected on the menu. Select an item with the and buttons, and start operation.

SETUP , INPUT	, IMAGE , OPT.
VOLUME	128
MENU COLOR+)	
TIMER •	
LANGUAGE •	
AUTO OFF +	
SYNC ON G •	

Table 6. Options Menu

Item	Description
VOLUME	Volume adjustment: Reduce VOLUME $ \leftrightarrow$ Increase VOLUME $ $
MENU COLOR	Select menu background color: Select with the and buttons.
TIMER	Operation start/stop: Press the e or d button. Setup initial timer value: Set 1~99 minutes with the
LANGUAGE	Operation start/stop: Press the e or
AUTO OFF	 Operation start/stop: Press the or button. Set AUTO OFF: Set 1~99 minutes with the and buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the button. When STOP is selected the system does not enter the standby mode even if no signal is received.
SYNC ON G	 Operation start/stop: Press the

No Signal Menu

The same adjustments and settings are available as with the Image and Options menus when the MENU button is pressed during display of the "NO INPUT IS DETECTED ON ***" or "SYNC IS OUT OF RANGE ON ***" message while no signal is received.

VOLUME 40 KEYSTONE +1 BLANK +1 MIRROR START UP UENU COLOR*
--

Table 7. No Signal Menu

Item	Description					
VOLUME	Volume adjustment: Reduce VOLUME $\odot \leftrightarrow$ Increase VOLUME \bigcirc					
KEYSTONE	$\begin{array}{c} \textbf{Adjustment:} \\ \textbf{Reduce size of bottom of image} \textcircled{\label{eq:adjustment}} \leftrightarrow \textbf{Reduce size of top of image} \textcircled{\label{eq:adjustment}} \end{array}$					
BLANK	Select blank screen color: Select color with the and buttons. When the blank mode is set with BLANK ON, by absence of a signal, or by input of a non-standard signal, the image is cleared and the complete screen is displayed in the selected colour.					
MIRROR	Operation start/stop: Press the					
START UP	 Operation start/stop: Press the or button. Setup initial screen display: Select TURN ON with the button. Clear initial screen display: Select TURN OFF with the button. Note that if TURN OFF is selected the screen is displayed in blue when there is no signal. 					
MENU COLOR	Select menu background color: Select with the and buttons.					
TIMER	Operation start/stop: Press the e or e button. Setup initial timer value: Set 1~99 minutes with the and buttons.					
LANGUAGE	Operation start/stop: Press the e or e button. Select menu display language: Select with the and buttons.					
AUTO OFF	 Operation start/stop: Press the or button. Set AUTO OFF: Set 1~99 minutes with the and buttons. The system automatically enters the standby mode when a signal is not received for the set time. Clear AUTO OFF: Select STOP (0 min.) with the button. When STOP is selected the system does not enter the standby mode even if no signal is received. 					
SYNC ON G	 Operation start/stop: Press the or button. SYNC ON G valid: Select TURN ON with the button. SYNC ON G invalid: Select TURN OFF with the button. May not be displayed correctly with some input signals when SYNC ON G is valid. In such cases, remove the signal connector so that no signal is received, set SYNC ON G to invalid, and reconnect the signal. 					

MAINTENANCE

Lamp



HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

Contact BOXLIGHT before replacing the lamp. Before replacing the lamp switch power OFF, remove the power cord from the power outlet, and wait approximately 45 minutes until the lamp has cooled. The lamp may explode if handled at high temperatures.

WARNING

• Dispose of used lamp, according to the instruction of community Lamp authorities. • Since the lamp is made of glass, do not apply shock to it and do not scratch it. • Also, do not use old lamp. This could also cause explosion of the lamp. • If it is probable that the lamp has exploded (explosive sound is heard), disconnect the power plug from the power outlet and Reflector Front contact BOXLIGHT. glasss The lamp is covered by front glass, but, in rare cases, the reflector and the inside of the projector may be damaged by scattered broken pieces of glass, and broken pieces could cause injury when being handled.

• Do not use the projector with the lamp cover removed.

Lamp Life

Projector lamps have a finite life. The image will become darker, and hues will become weaker, after a lamp has been used for a long period of time.

Replace the lamp if the LAMP indicator is red, or the CHANGE THE LAMP message (see P.20 Table 8) appears when the projector is switched ON.

NOTE:

The LAMP indicator is also red when the lamp unit reaches high temperature. Before replacing the lamp, switch power OFF, wait approximately 20 minutes, and switch power ON again. If the LAMP indicator is still red, replace the lamp.

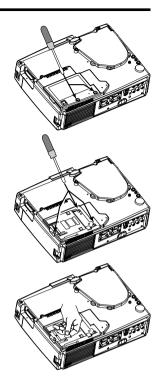
Replacing the Lamp

- 1. Switch the projector OFF, remove the power cord from the power outlet, and wait at least 45 minutes for the unit to cool.
- 2. Prepare a new lamp.
- 3. Check that the projector has cooled sufficiently, and gently turn it upside down.
- 4. Loosen the two screws as shown in the diagram, and remove the lamp cover.
- 5. Loosen the three screws, and gently remove the lamp while holding the grips. Touching the inside of the lamp case may result in uneven coloring of the projected image.
- 6. Install the new lamp and tighten the three screws firmly.
- 7. Replace the lamp cover in position and tighten the two screws firmly.
- 8. Gently turn the projector right-side up.

CAUTION

• Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.

• Do not use the projector with the lamp cover removed.



Resetting the Lamp Timer

Reset the lamp timer after replacing the lamp. When the lamp has been replaced after the LAMP indicator is red, or the CHANGE THE LAMP message is displayed, complete the following operation within ten minutes of switching power ON. The power will be turned off automatically in 10 minutes.

- 1. Switch power ON, and press the TIMER button on the remote control transmitter, or the RESET button on the control panel, for approximately three seconds. The 'LAMP xxxx hr' message will appear on the lamp timer on the bottom of the screen.
- 2. Press the MENU button on the remote control transmitter, or the RESET button on the control panel, while the lamp timer is displayed. The 'LAMP xxxx $\Box \rightarrow 0 \blacksquare$ CANCEL' message will then appear.
- 3. Press the \bigcirc and select 0, and wait until the timer display is cleared.

NOTE:

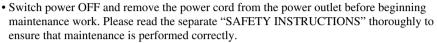
Do not reset the lamp timer without replacing the lamp. Reset the lamp timer always when replacing the lamp. The message functions will not operate properly if the lamp timer is not reset correctly.

Air Filter Maintenance

The air filter should be cleaned as described below at intervals of approximately 100 hours.

1. Switch the projector power supply OFF, and remove the power cord from the power outlet. 2. Clean the air filter with a vacuum cleaner.

CAUTION



- Replace the air filter if contamination cannot be removed, or if it is damaged. Contact BOXLIGHT for service.
- Do not use the equipment with the air filter removed.
- When the air filter is clogged with dust etc. the CHECK AIR FLOW message appears on the screen and the power supply is switched OFF automatically to prevent the temperature rising inside the projector.

Other Maintenance

Maintenance Inside the Equipment

For safety reasons, ensure that the equipment is cleaned and checked by BOXLIGHT once every two years. Maintaining the equipment by yourself is dangerous.

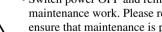
Cleaning the Lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the Cabinet and Remote control transmitter

Gently wipe with a soft cloth. If dirt and stain etc. are not easily removed, use a soft cloth dampened with water, or water and a neutral detergent, and wipe dry with a soft, dry cloth.

CAUTION



- Switch power OFF and remove the power cord from the power outlet before beginning maintenance work. Please read the separate "SAFETY INSTRUCTIONS" thoroughly to ensure that maintenance is performed correctly.
- Do not use detergents or chemicals other than those noted above (e.g. benzene or thinners).
- Do not use cleaning sprays.
- Do not rub with hard materials, or tap the equipment.

TROUBLESHOOTING

OSD Message The messages as described below may appear on the screen at power ON. Take the appropriate measures when such a message appears.

Table 8. OSD Messages

Message	Contents
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. *1)	The message shown at left appears after the lamp has been used for more than 1700 hours. The lamp is approaching the end of its life. Power is switched OFF automatically when the lamp reaches the end of its life. Prepare a new lamp for installation. Always reset the lamp timer after replacing the lamp.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER ** hr. *1)	The lamp will reach the end of its life in ** hours. Power will be switched OFF automatically in ** hours. Replace the lamp as shown in P.17 "Lamp". Always reset the lamp timer after replacing the lamp.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIME. THE POWER WILL TURN OFF AFTER 0 hr.	The lamp has reached the end of its life. Power will be switched OFF in a few minutes. Switch power OFF immediately and replace the lamp as shown in P.17 "Lamp". Always reset the lamp timer after replacing the lamp.
NO INPUT IS DETECTED ON ***	No input signal found. Check signal input connections and signal sources.
SYNC IS OUT OF RANGE ON ***	The horizontal or vertical frequency of the input signal is not within the specified range. Check the specifications of the equipment and the signal source.
CHECK THE AIR FLOW	The internal temperature has risen. Switch power OFF, and wait 20 minutes until the equipment cools. Check the following and Switch power ON again. • Are the ventilation openings blocked? • Is the air filter dirty? • Is the ambient temperature in excess of 35°C?

Indicators Message

The POWER indicator, LAMP indicator, and TEMP indicator are lit and blank as follows. Take the appropriate measures.

Table 9. Indicators Message

POWER indicator	LAMP indicator	TEMP indicator					
Lights orange	Turns off	Turns off	The Standby mode has been set.				
Blinks green	Turns off	Turns off	Varming up. Please wait.				
Lights green	Turns off	Turns off	ON. Normal operation possible.				
Blinks orange	Turns off	Turns off	Cooling. Please wait.				
Lights red	Lights red	Turns off	Lamp is not lit. The interior of the equipment may be too hot. Switch power OFF, wait 20 minutes until the equipment cools, and Switch power ON again. Replace the lamp if the same problem occurs.				
Lights red	Blinks red	Turns off	Lamp or lamp cover is not found, or hasn't been fitted in correctly. Switch power OFF, and wait for 45 minutes until the equipment cools. Check fitting of the lamp and lamp cover, and switch power ON again. Contact BOXLIGHT if the same problem occurs again.				
Lights red	Turns off	Blinks red	The cooling fan is not operating. Switch power OFF, and wait for 20 minutes until the equipment cools. Check for foreign matters in the fan, and switch power ON again. Contact BOXLIGHT if the same problem occurs again.				
Lights red	Turns off	Lights red	The interior of the equipment is too hot. *1) Switch power OFF, and wait for 20 minutes until the equipment cools. Check whether the ventilation openings are blocked, whether the air filter is dirty, or whether the ambient temperature exceeds 35 °C. Then switch power ON again. Contact BOXLIGHT if the same problem occurs again.				

*1) When the internal temperature becomes excessive power is switched OFF automatically for safety reasons, and the indicator is extinguished. Set the power switch to [O] and wait for 20 minutes until the equipment has cooled sufficiently.

Symptom

Before requesting repair, consult the following chart. If the situation cannot be corrected, then contact BOXLIGHT at 800-762-5757 or 360-779-7901.

Table 10. Symptom

Symptom	Possible cause	Remedy	Page
The power is not	The main power switch is not turned on.	Turn on the main power switch.	7,9
turned on.	The power cord is disconnected.	Plug the power cord into an AC power outlet.	7,9
No video or audio.	The input is not correctly set.	Use the projector or remote control transmitter to set.	10
	No signal input.	Connect correctly.	7,8
	The projector is not correctly connected.	Connect correctly.	7,8
Video is present but no audio.	The volume is set to minimum.	Press VOLUME \bigcirc on the remote control or display the menu screen and adjust the volume.	11,15
	Mute is turned on.	Press the MUTE 🛞 button.	11
	The projector is not correctly connected.	Connect correctly.	7,8
Audio is present but no video.	The brightness adjustment is set to full off.	Select BRIGHT with the MENU button and the press the button.	12
	The slide lens door is still closed.	Open the slide lens door.	9
Colors are pale and color matching is poor.	Color density and color matching are not correctly adjusted.	Adjust the video.	12
Images are dark.	Brightness and contrast are not correctly adjusted.	Adjust the video.	12
inages are uark.	The lamp is nearing the end of its service life.	Replace with a new lamp.	17
Video is blurred.	Focus or H PHASE is out of adjustment.	Adjust the focus or H PHASE.	12

SPECIFICATIONS

NOTE : These specifications are subject to change without notice.

Table 11. Specifications

Item		Specification					
Product name		BOXLIGHT CP-731i LCD Projector					
Liquid	Panel size	2.3 cm (0.9 type)					
crystal	Drive system	TFT active matrix					
panel	Pixels	786,432 pixels (1024 horizontal x 768 vertical)					
Lens		coom lens F=1.7 ~ 2.0 f=37.5 ~ 45.1 mm					
Lamp		160 W UHB					
Speaker		1.0 W + 1.0W (Stereo)					
Power supply	/	AC100 ~ 120V, 2.8A / AC220 ~ 240V, 1.2A					
Power consu	mption	250W					
Temperature	range	0 ~ 35°C (Operating)					
Size		298 (W) x 94.6 (H) x 228 (D) mm					
Weight (mas	s)	3.2 kg					
RGB signal input	RGB IN 1/2	Video: Analog 0.7Vp-p, 75Ω terminator (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack					
	AUDIO IN 1/2	200mVrms, 50 kΩ (max. 3.0Vp-p) Stereo mini jack					
	VIDEO IN	1.0Vp-p, 75Ω terminator RCA jack					
Video signal input	S-VIDEO IN	Brightness signal: 1.0Vp-p, 75Ω terminator Color signal: 0.286Vp-p (burst signal), 75Ω terminator Mini DIN 4-pin jack					
	audio in R/L	200mVrms, 50 kΩ (max. 3.0Vp-p) RCA jack					
Signal output	RGB out	Video: Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level D-sub 15-pin shrink jack					
	AUDIO OUT	200mVrms, output impedance 50 kΩ (max. 3.0Vp-p) Stereo mini jack					
Control	CONTROL	D-sub 15-pin shrink plug					
functions	USB	USB jack (B type)					

ENGLISH

LIMITED WARRANTY

BOXLIGHT CORPORATION("BOXLIGHT") warrants that each Boxlight CP-731i("the Product") sold hereunder will conform to and function in accordance with the written specifications of BOXLIGHT. Said limited warranty shall apply only to the first person or entity that purchases the Product for personal or business use and not for the purpose of distribution resale. Said warranty shall continue for a period of two (2) years from the date of such purchase. BOXLIGHT does not warrant that the Product will meet the specific requirements of the first person or entity that purchases the Product for personal or business use. Lamp is warrantied for 120 days.

BOXLIGHT CORPORATION's liability for the breach of the foregoing limited warranty is limited to the repair or replacement of the Product or refund of the purchase price of the Product, at BOXLIGHT's sole option. To exercise the Purchaser's right under the foregoing warranty, the Product must be returned at the Purchaser's sole cost and expense, to BOXLIGHT or any authorized service center provided, however, that the Product must be accompanied by a written letter explaining the problem and which includes (i) proof of purchase; (ii) the dealer's name; (iii) the model and serial number of the Product. A return authorization number, issued by the BOXLIGHT customer service department, must also be clearly displayed on the outside of the shipping carton containing the Product.

WARRANTY LIMITATION AND EXCLUSION

BOXLIGHT CORPORATION shall have no further obligation under the foregoing limited warranty if the Product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modification, tampering, alterations, or service other than by BOXLIGHT or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

DISCLAIMER OR UNSTATED WARRANTIES

The warranty printed above is the only warranty applicable to this purchase.

All other warranties express or implied, Including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose are disclaimed. There are no warranties that extend beyond the face of hereof and the forgoing warranty shall not be extended, altered or varied except by written instrument signed by BOXLIGHT CORPORATION.

LIMITATION OF LIABILITY

It is understood and agreed that BOXLIGHT's liability whether in contract, in tort, under any warranty, in negligence or otherwise, shall not exceed the return of the amount of the purchase price paid by purchaser and under no circumstances shall BOXLIGHT be liable for special, indirect or consequential damages. The price stated for the Product is a consideration in limiting BOXLIGHT's liability. No action regardless of form, arising out of the agreement to purchase the product, may be brought by purchaser more than one year after the cause of action has accrued.





Multimedia LCD Projector

CP-731i

USER'S MANUAL

Please read this user's manual thoroughly to ensure correct usage of this projector.

BEDIENUNGSANLEITUNG

Bitte lessen Sie diese Bedienungsanleitung zugunsten der korrekten Bedienung aufmerksam.

MANUEL D'UTILISATION

Nous vous recommandons de lire attentivement ce menuel pour bien assimiler le fonctionnement de l'appareil.

MANUAL D'ISTRUZIONI

Vi preghiamo voler leggere attentamente il manuale d'sitruzioni in modo tale da poter comprendere quanto riportato ai fini di un corretto utilizzo del proiettore.

MANUAL DE USUARIO

Lea cuidadosamente este manual del usuario para poder utilizar corretamente el producto.

GEBRUIKSAANWIJZNG

Lees voor het qebruik alstublieft deze handleiding aandachtig door, om volledig profijt te hebben van de uitgebreide mogelijkheden.

BRUKERHÅNDBOK

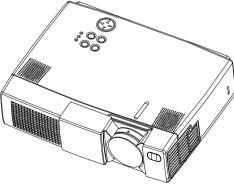
Vennligst les denne bruksanvisningen grundig for å være garantert driftssikker bruk.

INSTRUÇÕES DO PROPRIETÁRIO

Para assegurar o uso correto do equipamento, por favor leia atentamente este manual do usuário.

TECHNICAL

REGULATORY NOTICES



ENGLISI

DEUTSCH

FRANÇAIS

ITALIANO

ESPAÑOL

EDERLANDS

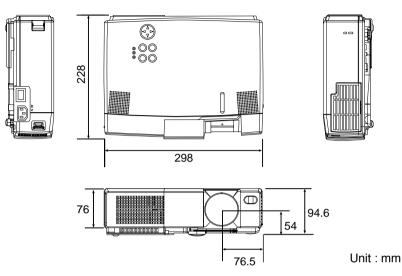
NORSK

PORTGE

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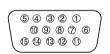
TECHNICAL

Dimension Diagram



RGB Signal Pin Assignment

Pin No	Signal	Pin No	Signal	
1	Video input Red	11	-	
2	Video input Green		RGB IN 1: SDA(DDC)	
3	Video input Blue	12	RGB IN 2: -	
4	-		RGB OUT: -	
5	Ground	13	H. sync./ Composite	
6	Ground Red	15	sync.	
7	Ground Green	14	Vertical sync	
8	Ground Blue		RGB IN 1: SCL(DDC)	
9	-	15	RGB IN 2: -	
10	Ground		RGB OUT: -	



D-sub 15-pin shrink jack

S-Video Signal Pin Assignment

Pin No	Signal
1	Color:0.286Vp-p (burst signal),75Ω terminator
2	Brightness:1.0Vp-p, 75Ω terminator
3	Ground
4	Ground



mini DIN 4-pin

TECHNICAL

TECHNICAL

Example of computer signal

	•						
$\begin{array}{c} \textbf{Resolution} \\ \textbf{H} \times \textbf{V} \end{array}$	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode		
640 × 350	37.9	85.1	VESA	VGA-1	Expansion		
640 × 400	37.9	85.1	VESA	VGA-2	Zoom in		
720 × 400	37.9	85.0	VESA	TEXT	Zoom in		
640 × 480	31.5	59.9	VESA	VGA-3	Zoom in		
640 × 480	35.0	66.7		Mac13"mode	Zoom in		
640 × 480	37.9	72.8	VESA	VGA-3(72Hz)	Zoom in		
640 × 480	37.5	75.0	VESA	VGA-3(75Hz)	Zoom in		
640 × 480	43.3	85.0	VESA	VGA-3(85Hz)	Zoom in		
800 × 600	35.2	56.3	VESA	SVGA(56Hz)	Zoom in		
800 × 600	37.9	60.3	VESA	SVGA(60Hz)	Zoom in		
800 × 600	48.1	72.2	VESA	SVGA(72Hz)	Zoom in		
800 × 600	46.9	75.0	VESA	SVGA(75Hz)	Zoom in		
800 × 600	53.7	85.1	VESA	SVGA(85Hz)	Zoom in		
832×624	49.7	74.5		Mac16"mode	Zoom in		
1024×768	48.4	60.0	VESA	XGA(60Hz)	True		
1024 imes 768	56.5	70.1	VESA	XGA(70Hz)	True		
1024 imes 768	60.0	75.0	VESA	XGA(75Hz)	True		
1024 × 768	68.7	85.0	VESA	XGA(85Hz)	True		
1152×864	67.5	75.0	VESA	SXGA(75Hz)	Compression		
1280 × 960	60.0	60.0	VESA	SXGA(60Hz)	Zoom out		
1280 × 1024	64.0	60.0	VESA	SXGA(75Hz)	Zoom out		
1280 × 1024	80.0	75.0	VESA	SXGA(75Hz)	Zoom out		

NOTE:

- Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.
- Be sure to check input type, signal level, timing and resolution before connecting this projector to a computer.
- Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.

Initial set signals

The following signals are used for the initial settings.

The signal timing of some computer models may be different. In such case, refer to adjust the V.POSIT and H.POSIT of the menu.



Computer /	Horizo	ontal sig	nal timin	ig (µs)	Computer /	Vertic	al signa	l timimg	(lines)
Signal	а	b	С	d	Signal	а	b	С	d
VGA-1(85Hz)	2.0	3.0	20.3	1.0	VGA-1(85Hz)	3	60	350	32
VGA-2(85Hz)	2.0	3.0	20.3	1.0	VGA-2(85Hz)	3	41	400	1
TEXT	2.0	3.0	20.3	1.0	TEXT	3	42	480	1
VGA-3	3.8	1.9	25.4	0.6	VGA-3	2	33	480	10
Mac 13"mode	2.1	3.2	21.2	2.1	Mac 13"mode	3	39	480	3
VGA-3(72Hz)	1.3	3.8	20.3	1.0	VGA-3(72Hz)	3	28	480	9
VGA-3(75Hz)	2.0	3.8	20.3	0.5	VGA-3(75Hz)	3	16	480	1
VGA-3(85Hz)	1.6	2.2	17.8	1.6	VGA-3(85Hz)	3	25	480	1
SVGA(56Hz)	2.0	3.6	22.2	0.7	SVGA(56Hz)	2	22	600	1
SVGA(60Hz)	3.2	2.2	20.0	1.0	SVGA(60Hz)	4	23	600	1
SVGA (72Hz)	2.4	1.3	16.0	1.1	SVGA (72Hz)	6	23	600	37
SVGA (75Hz)	1.6	3.2	16.2	0.3	SVGA (75Hz)	3	21	600	1
SVGA (85Hz)	1.1	2.7	14.2	0.6	SVGA (85Hz)	3	27	600	1
Mac 16"mode	1.1	3.9	14.5	0.6	Mac 16"mode	3	39	624	1
XGA (60Hz)	2.1	2.5	15.8	0.4	XGA (60Hz)	6	29	768	3
XGA (70Hz)	1.8	1.9	13.7	0.3	XGA (70Hz)	6	29	768	3
XGA (75Hz)	1.2	2.2	13.0	0.2	XGA (75Hz)	3	28	768	1
XGA (85Hz)	1.0	2.2	10.8	0.5	XGA (85Hz)	3	36	768	1
1152×864 (75Hz)	1.2	2.4	10.7	0.6	1152×864 (75Hz)	3	32	864	1
1280×960 (60Hz)	1.0	2.9	11.9	0.9	1280×960 (60Hz)	3	36	960	1
1280×1024 (60Hz)	1.0	2.3	11.9	0.4	1280×1024 (60Hz)	3	38	1024	1
1280×1024 (75Hz)	1.1	1.8	9.5	0.1	1280×1024 (75Hz)	3	38	1024	1

Connection to the Mouse Control

1. PS/2, ADB or Serial Mouse

- (1) Turn off the projector and computer, and connect the two units with the appropriate cable. For PS/2 mouse control (for IBM and compatible), use the enclosed mouse cable. For others, contact BOXLIGHT for optional cables.
- (2) Disconnect the USB cable from the projector if it is connected. Then turn on the projector.
- (3) Turn on the computer.
- (4) Start the mouse function. If the mouse has not been started, reboot the computer (soft reboot or reboot buttons). Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

2. USB Mouse

- (1) Connect the projector and computer with a suitable commercially available USB cable. Consult BOXLIGHT to get the cable, if you need.
- (2) Start the mouse function. Refer to the descriptions of "DISC PAD" and "MOUSE/RIGHT button" of page 4.

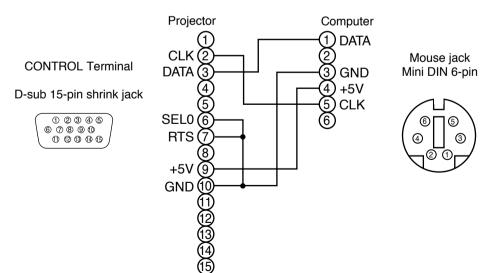
NOTE:

- Before connecting, read the instruction manuals of the devices to be connected.
- In the case of notebook type computers with an internal pointing device, the mouse control function will not work unless the internal pointing device is disabled. In such case, disable the internal pointing device and change the BIOS setting to select an external mouse before the operations described in (1) to (5) above.

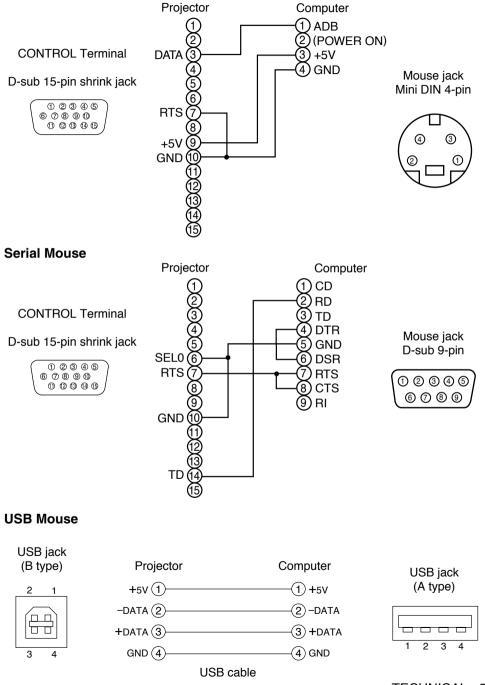
Also, some computers may not have a utility program to operate a mouse.

Refer to the computer hardware manual for detail.

PS/2 Mouse



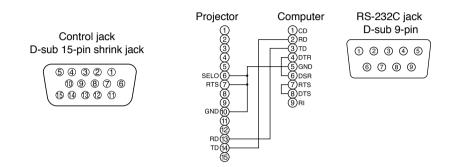




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RS-232C communication

- (1) Turn off the projector and computer power supplies and connect with the RS-232C cable.
- (2) Turn on the computer power supply and, after the computer has started up, turn on the projector power supply.



Communications setting

19200bps, 8N1

1 Protocol

Consist of header (7 bytes) + command data (6 bytes).

2 Header

BE + EF + 03 + 06 + 00 + CRC_low + CRC_high CRC_low : Lower byte of CRC flag for command data. CRC_high : Upper byte of CRC flag for command data.

3 Command data

Command data chart

byte_0	byte_1	byte_2	byte_3	byte_4	byte_5		
Action		Action Type			Setting code		
low	high	low high		low	high		

Action (byte_0 - 1)

Action	Classification	Content
1	SET	Change setting to desired value.
2	GET	Read projector internal setup value.
4	INCREMENT	Increment setup value by 1.
5	DECREMENT	Decrement setup value by 1.
6	EXECUTE	Run a command.

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Requesting projector status (Get command)

- (1) Send the request code Header + Command data ('02H'+'00H'+ type (2 bytes) +'00H'+'00H') from the computer to the projector.
- (2) The projector returns the response code '1DH'+ data (2 bytes) to the computer.

Changing the projector settings (Set command)

- (1) Send the setting code Header + Command data ('01H'+'00H'+ type (2 bytes) + setting code (2 bytes)) from the computer to the projector.
- (2) The projector changes the setting based on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

Using the projector default settings (Reset Command)

- (1) The computer sends the default setting code Header + Command data ('06H'+'00H'+ type (2 bytes) +'00H'+'00H') to the projector.
- (2) The projector changes the specified setting to the default value.
- (3) The projector returns the response code '06H' to the computer.

Increasing the projector setting value (Increment command)

- (1) The computer sends the increment code Header + Command data ('04H'+'00H'+ type (2 bytes) +'00H'+'00H') to the projector.
- (2) The projector in creases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

Decreasing the projector setting value (Decrement command)

- (1) The computer sends the decrement code Header + Command data ('05H'+'00H'+ type (2 bytes) +'00H' + '00H') to the projector.
- (2) The projector decreases the setting value on the above setting code.
- (3) The projector returns the response code '06H' to the computer.

When a command sent by the projector cannot be understood by the computer

When the command sent by the projector cannot be understood, the error command '15H' is returned by the computer. Some times, the projector ignores RS-232C commands during other works. If the error command '15H' is returned, please send the same command again.

When data sent by the projector cannot be practiced

When the command sent by the projector cannot be practiced, the the error code '1cH' +'xxxxH' is returned.

When the data length is greater than indicated by the data length code, the projector will ignore the excess data code.

Conversely, when the data length is shorter than indicated by the data length code, an error code will be returned to the projector.

NOTE:

- Operation cannot be guaranteed when the projector receives an undefined command or data.
- Provide an interval of at least 40ms between the response code and any other code.
- The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
- Commands are not accepted during warm-up.

News				la a de s			Command data					
Names		peration type	Header			CRC	Action Type		Setting code			
		Red	BE EF	03	06 00	3B D3	01 00	00 30	00 00			
		Orange	BE EF	03	06 00	AB D2	01 00	00 30	01 00			
		Green	BE EF	03	06 00	5B D2	01 00	00 30	02 00			
	Set	Blue	BE EF	03	06 00	CB D3	01 00	00 30	03 00			
Blank Color		Purple	BE EF	03	06 00	FB D1	01 00	00 30	04 00			
		White	BE EF	03	06 00	6B D0	01 00	00 30	05 00			
		Black	BE EF	03	06 00	9B D0	01 00	00 30	06 00			
		Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00			
		Normal	BE EF	03	06 00	C7 D2	01 00	01 30	00 00			
	Set	H Inverse	BE EF	03	06 00	57 D3	01 00	01 30	01 00			
Mirror	Set	V Inverse	BE EF	03	06 00	A7 D3	01 00	01 30	02 00			
		H&V Inverse	BE EF	03	06 00	37 D2	01 00	01 30	03 00			
	Get		BE EF	03	06 00	F4 D2	02 00	01 30	00 00			
	Set	Normal	BE EF	03	06 00	83 D2	01 00	02 30	00 00			
Freeze	Jei	Freeze	BE EF	03	06 00	13 D3	01 00	02 30	01 00			
	Get		BE EF	03	06 00	B0 D2	02 00	02 30	00 00			
		Red	BE EF	03	06 00	7F D3	01 00	03 30	00 00			
		Orange	BE EF	03	06 00	EF D2	01 00	03 30	01 00			
		Green	BE EF	03	06 00	1F D2	01 00	03 30	02 00			
Menu Color	Set	BLUE	BE EF	03	06 00	8F D3	01 00	03 30	03 00			
		Purple	BE EF	03	06 00	BF D1	01 00	03 30	04 00			
		Transparent	BE EF	03	06 00	2F D0	01 00	03 30	05 00			
		Gray	BE EF	03	06 00	DF D0	01 00	03 30	06 00			
		Get	BE EF	03	06 00	4C D3	02 00	03 30	00 00			
	Set	Turn ON	BE EF	03	06 00	0B D2	01 00	04 30	00 00			
Startup		Turn OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00			
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00			
		English	BE EF	03	06 00	F7 D3	01 00	05 30	00 00			
		Français	BE EF	03	06 00	67 D2	01 00	05 30	01 00			
		Deutsch	BE EF	03	06 00	97 D2	01 00	05 30	02 00			
		Español	BE EF	03	06 00	07 D3	01 00	05 30	03 00			
Language	Set	Italiano	BE EF	03	06 00	37 D1	01 00	05 30	04 00			
Language		Norsk	BE EF	03	06 00	A7 D0	01 00	05 30	05 00			
		Nederlands	BE EF	03	06 00	57 D0	01 00	05 30	06 00			
		Português	BE EF	03	06 00	C7 D1	01 00	05 30	07 00			
		Japanese	BE EF	03	06 00	37 D4	01 00	05 30	08 00			
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00			

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Names	Operati	on type					Command data				
		Operation type		Header		CRC	Action Type		Setting code		
	Get		BE EF	03	06 00	7C D2	02 00	07 30	00 00		
Magnify	Increment		BE EF	03	06 00	1A D2	04 00	07 30	00 00		
	Decrement		BE EF	03	06 00	CB D3	05 00	07 30	00 00		
	G	et	BE EF	03	06 00	08 86	02 00	10 31	00 00		
Timer	Increment		BE EF	03	06 00	CE 86	04 00	10 31	00 00		
	Decrement		BE EF	03	06 00	BF 87	05 00	10 31	00 00		
	G	et	BE EF	03	06 00	08 86	02 00	10 31	00 00		
Auto off	Incre	ment	BE EF	03	06 00	6E 86	04 00	10 31	00 00		
	Decre	ement	BE EF	03	06 00	BF 87	05 00	10 31	00 00		
Brightness Reset	Exe	cute	BE EF	03	06 00	58 D3	06 00	00 70	00 00		
Contrast Reset	Exe	cute	BE EF	03	06 00	A4 D2	06 00	01 70	00 00		
V.Position Reset	Exe	cute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00		
H.Position Reset	Exe	cute	BE EF	03	06 00	IC D3	06 00	03 70	00 00		
H.Size Reset	Exe	cute	BE EF	03	06 00	68 D2	06 00	04 70	00 00		
Color Balance R Reset	Execute		BE EF	03	06 00	94 D3	06 00	05 70	00 00		
Color Balance B Reset	Execute		BE EF	03	06 00	D0 D3	06 00	06 70	00 00		
Aspect Reset	Execute		BE EF	03	06 00	2C D2	06 00	07 70	00 00		
Video Format Reset	Execute		BE EF	03	06 00	38 D1	06 00	08 70	00 00		
Sharpness Reset	Execute		BE EF	03	06 00	C4 D0	06 00	09 70	00 00		
Color Reset	Exe	cute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00		
Tint Reset	Exe	cute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00		
Keystone Reset	Exe	cute	BE EF	03	06 00	08 D0	06 00	0C 70	00 00		
Mirror Reset	Execute		BE EF	03	06 00	F4 D1	06 00	0D 70	00 00		
Blank Color Reset	Exe	cute	BE EF	03	06 00	B0 D1	06 00	0E 70	00 00		
Startup Reset	Exe	cute	BE EF	03	06 00	4C D0	06 00	0F 70	00 00		
Auto	Exe	cute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00		
	Set	off	BE EF	03	06 00	FB D8	01 00	20 30	00 00		
Blank on/off	001	on	BE EF	03	06 00	6B D9	01 00	20 30	01 00		
	G	et	BE EF	03	06 00	C8 D8	02 00	20 30	00 00		
	Set	off	BE EF	03	06 00	07 D9	01 00	21 30	00 00		
Timer on/off		on	BE EF	03	06 00	97 D8	01 00	21 30	01 00		
	Get		BE EF	03	06 00	34 D9	02 00	21 30	00 00		
Error Status	Get		BE EF (Example 00 00 (Normal) 04 00 (Temp-err	01 00 (Cover 05	20 60 00 mp-error) -over)	00 00					

	-					Command data				
Names	Operation type		ŀ	Header		CRC	Action	Туре	Setting code	
Power		OFF	BE EF	03	06 00	2A D3	01 00	00 60	00 00	
	Set	ON	BE EF	03	06 00	BA D2	01 00	00 60	01 00	
		Get	BE EF	03	06 00	19 D3	02 00	00 60	00 00	
		RGB1	BE EF	03	06 00	FE D2	01 00	00 20	00 00	
		RGB2	BE EF	03	06 00	3E 00	01 00	00 20	04 00	
Input Source	Set	Video	BE EF	03	06 00	6E D3	01 00	00 20	01 00	
		SVideo	BE EF	03	06 00	9E D3	01 00	00 20	02 00	
		Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00	
		Get	BE EF	03	06 00	31 D3	02 00	01 20	00 00	
Volume		Increment	BE EF	03	06 00	57 D3	04 00	01 20	00 00	
		Decrement	BE EF	03	06 00	86 D2	05 00	01 20	00 00	
	Cat	Normal	BE EF	03	06 00	46 D3	01 00	02 20	00 00	
Mute	Set	Mute	BE EF	03	06 00	D6 D2	01 00	02 20	01 00	
		Get	BE EF	03	06 00	75 D3	02 00	02 20	00 00	
	Get		BE EF	03	06 00	89 D2	02 00	03 20	00 00	
Brightness	Increment		BE EF	03	06 00	EF D2	04 00	03 20	00 00	
	Decrement		BE EF	03	06 00	3E D3	05 00	03 20	00 00	
	Get		BE EF	03	06 00	FD D3	02 00	04 20	00 00	
Contrast	Increment		BE EF	03	06 00	9B D3	04 00	04 20	00 00	
	Decrement		BE EF	03	06 00	4A D2	05 00	04 20	00 00	
0.1	Get		BE EF	03	06 00	01 D2	02 00	05 20	00 00	
Color Balance R	Increment		BE EF	03	06 00	67 D2	04 00	05 20	00 00	
		Decrement	BE EF	03	06 00	B6 D3	05 00	05 20	00 00	
0.1		Get	BE EF	03	06 00	45 D2	02 00	06 20	00 00	
Color Balance B		Increment	BE EF	03	06 00	23 D2	04 00	06 20	00 00	
		Decrement	BE EF	03	06 00	F2 D3	05 00	06 20	00 00	
		Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00	
Keystone	Increment		BE EF	03	06 00	DF D3	04 00	07 20	00 00	
		Decrement	BE EF	03	06 00	0E D2	05 00	07 20	00 00	
		4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00	
Aspect	Set	16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00	
		Small	BE EF	03	06 00	FE D1	01 00	08 20	02 00	
	Get		BE EF	03	06 00	AD D0	02 00	08 20	00 00	
		Default	BE EF	03	06 00	62 D1	01 00	09 20	00 00	
Display	Set	Bottom	BE EF	03	06 00	F2 D0	01 00	09 20	01 00	
Position at 16 : 9 or Small		Тор	BE EF	03	06 00	02 D0	01 00	09 20	02 00	
		Get	BE EF	03	06 00	51 D1	02 00	09 20	00 00	

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Names		Operation type	Header						Command data				
INAILIES		peration type		пеа	luei			CRC	Action	Тур	e	Setting	g code
	Get		BE E	F (03	06	00	0D 83	02 00	00	21	00	00
V.Position	Increment		BE E	F (03	06	00	6B 83	04 00	00	21	00	00
		Decrement	BE E	F (03	06	00	BA 82	05 00	00	21	00	00
		Get		F (03	06	00	F1 82	02 00	01 2	21	00	00
H.Position		Increment	BE E	F (03	06	00	97 82	04 00	01 2	21	00	00
		Decrement	BE E	F (03	06	00	46 83	05 00	01 2	21	00	00
		Get	BE E	F (03	06	00	B5 82	02 00	02 2	21	00	00
H.Size		Increment	BE E	F (03	06	00	D3 82	04 00	02 2	21	00	00
		Decrement	BE E	F (03	06	00	02 83	05 00	02 2	21	00	00
		Get	BE E	F (03	06	00	49 83	02 00	03 2	21	00	00
H.Phase		Increment	BE E	F (03	06	00	2F 83	04 00	03 2	21	00	00
		Decrement	BE E	F (03	06	00	FE 82	05 00	03 2	21	00	00
		Get		F (03	06	00	F1 72	02 00	01	22	00	00
Sharpness		Increment		F (03	06	00	97 72	04 00	01	22	00	00
		Decrement	BE E	F (03	06	00	46 73	05 00	01	22		00
		Get	BE E	F (03	06	00	B5 72	02 00	02 2	22	00	00
Color	Increment		BE E	F (03	06	00	D3 72	04 00	02 2	22	00	00
		Decrement	BE E	F (03	06 00 02 73 05 00 02 22	00	00					
		Get	BE E	F (03	06	00	49 73	02 00	03	22	00	00
Tint		Increment	BE E	F (03	06	00	2F 73	04 00	03	22	00	00
		Decrement		F (03	06	00	FE 72	05 00	03	22	00	00
		Auto	BE E	F (03	06	00	9E 75	01 00	00	22	0A	00
		NTSC	BE E	F (03	06	00	FE 71	01 00	00	22	04	00
		PAL	BE E	F (03	06	00	6E 70	01 00	00	22	05	00
	Set	SECAM	BE E	F (03	06	00	6E 75	01 00	00	22	09	00
Video Format		NTSC 4.43	BE E		03	06		5E 72	01 00	00		02	
		M-PAL	BE E	F (03	06	00	FE 74	01 00	00	22	08	00
		N-PAL	BEE		03	06		0E 71	01 00	00		07	
		Get	BEE		03	00		0D 73	02 00	00 2		00	
		Gei		. (00	00	00	00 /3	02 00	00 /	~~	00	00

REGULATORY NOTICES

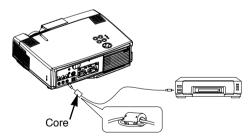
FCC Statement Warning

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

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met:

The cables (Power cord, RGB cable and other cables) may have to be used with the core set to the projector side. Use the cables which are included with the projector or specified in this manual.



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

For the Customers in CANADA

NOTICE: This Class B digital apparatus complies with Canadian ICES-003.

LIMITED WARRANTY

BOXLIGHT CORPORATION("BOXLIGHT") warrants that each Boxlight CP-731i("the Product") sold hereunder will conform to and function in accordance with the written specifications of BOXLIGHT. Said limited warranty shall apply only to the first person or entity that purchases the Product for personal or business use and not for the purpose of distribution resale. Said warranty shall continue for a period of two (2) years from the date of such purchase. BOXLIGHT does not warrant that the Product will meet the specific requirements of the first person or entity that purchases the Product for personal or business use. Lamp is warrantied for 120 days.

BOXLIGHT CORPORATION's liability for the breach of the foregoing limited warranty is limited to the repair or replacement of the Product or refund of the purchase price of the Product, at BOXLIGHT's sole option. To exercise the Purchaser's right under the foregoing warranty, the Product must be returned at the Purchaser's sole cost and expense, to BOXLIGHT or any authorized service center provided, however, that the Product must be accompanied by a written letter explaining the problem and which includes (i) proof of purchase; (ii) the dealer's name; (iii) the model and serial number of the Product. A return authorization number, issued by the BOXLIGHT customer service department, must also be clearly displayed on the outside of the shipping carton containing the Product.

WARRANTY LIMITATION AND EXCLUSION

BOXLIGHT CORPORATION shall have no further obligation under the foregoing limited warranty if the Product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modification, tampering, alterations, or service other than by BOXLIGHT or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

DISCLAIMER OR UNSTATED WARRANTIES

The warranty printed above is the only warranty applicable to this purchase.

All other warranties express or implied, Including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose are disclaimed. There are no warranties that extend beyond the face of hereof and the forgoing warranty shall not be extended, altered or varied except by written instrument signed by BOXLIGHT CORPORATION.

LIMITATION OF LIABILITY

It is understood and agreed that BOXLIGHT's liability whether in contract, in tort, under any warranty, in negligence or otherwise, shall not exceed the return of the amount of the purchase price paid by purchaser and under no circumstances shall BOXLIGHT be liable for special, indirect or consequential damages. The price stated for the Product is a consideration in limiting BOXLIGHT's liability. No action regardless of form, arising out of the agreement to purchase the product, may be brought by purchaser more than one year after the cause of action has accrued.



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