

USER'S MANUAL

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DUKANE

8055 User's Manual - Operating Guide

Thank you for purchasing this projector.

MARNING Before using, read the "User's Manual - Safety Guide" and these manuals to ensure correct usage through understanding. After reading, store them 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.

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Projector Features

This multimedia 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.

Ultra High Brightness

Crisp, ultra-bright presentations is achieved by using a UHB (ultra high brightness) lamp and a highly efficient optical system.

Whisper Mode Equipped

Special mode is available for reducing projector noise to achieve quieter operation.

User Memory Function

This projector can memorize 4 settings by MY MEMORY function.

Partial Magnification Function

Interesting parts of images can be magnified for closer viewing.

Keystone Distortion Correction

Quick correction of distorted images electrically.

Contents Of Package

Your projector should come with the items shown below. Contact your dealer if anything is missing. Keep the original packing material for future reshipment.







Projector & Lens Cap

Arrangement





Rivet & Strap



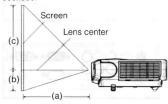


Operating Guide

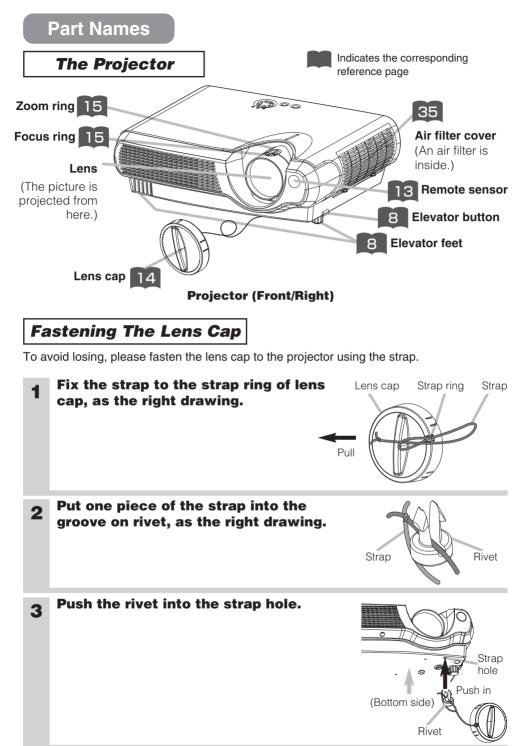
Remote control & AA batteries (2)

(+10%)

Refer to this table, in case of 4:3 aspect ratios. The values (a), (b) and (c) shown in the table are calculated for a full size screen 800x600.

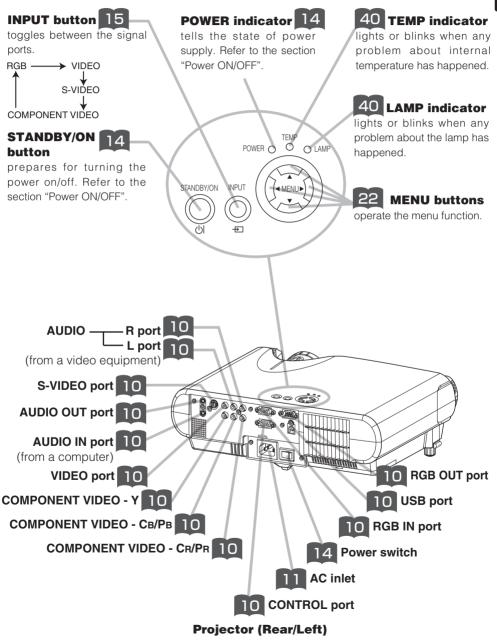


	(a) [inch (m)]		(b)	(c)
Screen Size [inch (m)]	Min.	Max.	[inch (cm)]	[inch (cm)]
30 (0.8)	35(0.9)	42(1.1)	2(5)	16(41)
40 (1.0)	47(1.2)	56(1.4)	2(6)	22(55)
50 (1.3)	59(1.5)	71(1.8)	3(8)	27(69)
60 (1.5)	71(1.8)	85(2.2)	4(9)	32(82)
70 (1.8)	83(2.1)	99(2.5)	4(11)	38(96)
80 (2.0)	95(2.4)	114(2.9)	5(12)	43(110)
90 (2.3)	107(2.7)	128(3.3)	5(14)	49(123)
100 (2.5)	119(3.0)	143(3.6)	6(15)	54(137)
200 (5.0)	240(6.1)	287(7.3)	12(30)	108(274
300 (7.5)	360(9.1)	431(10.9)	18(46)	162(411



Part Names (continued)

The Projector (continued)



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Part Names (continued)

The Remote Control

RGB button

selects the input signal of RGB port.

VIDEO button

toggles between the signal ports of VIDEO, S-VIDEO and COMPONENT VIDEO.

ASPECT button

toggles between the modes for aspect ratio.

MAGNIFY ON/OFF

turns on/off the MAGNIFY mode. In the MAGNIFY mode.

To move the magnified area.

(1) Press the POSITION button.

(2) Use the cursor buttons to move the picture.(3) Press the POSITION button again to finish.

To shift the magnify level.

use the cursor () v buttons.

FREEZE button 20

freezes/reactivates the picture.

POSITION button

turns on/off the POSITION mode. (for RGB input) In the POSITION mode,

To move the picture, use the cursor buttons.

ESC button

returns to the previous display at the menu functions. (32 Available for operating PC screen)

SEARCH button

searches for an input signal between the following signal ports of RGB, VIDEO, S-VIDEO and COMPONENT VIDEO.

VIDEO SEARCH 1 EREE7E KEYSTONE 4 POSITION MENU () (\cdot) ENTER DECET EC/ \bigcirc

22 ENTER button

proceeds to the next operation at the menu functions. (32 Available for operating PC screen)

(Cursor) buttons

works for adjusting or menu controlling.

(32 Available for

operating PC screen)

ul(STANDBY/ON) button

prepares for turning the power on/off.

AUTO button

executes automatic adjustment.

BLANK button

blanks the screen temporarily.

VOLUME button

turns on/off the VOLUME mode. In the VOLUME mode.

To adjust the volume, use the cursor (1) (1) buttons.

32 KEYBOARD button operate the PC screen.

MUTE button mutes/restores the sound.

KEYSTONE button

turns on/off the KEYSTONE mode. In the KEYSTONE mode,

To adjust the keystone,

use the cursor $\bigcirc_{/} \bigcirc$ buttons.

22 MENU button opens/closes the menu.

22 RESET button

cancels the adjustment in progress.

* The adjustments of the volume etc. are not reset.

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Setting Up

Arrangement

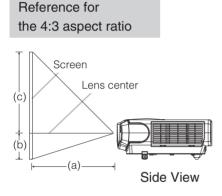
WARNING • Install the projector in a suitable environment according to

- instructions of the "User's Manual Safety Guide" and this manual.
- The power outlet should be close to the projector and easily accessible.

Refer to the illustrations and tables below to determine the screen size and projection distance.

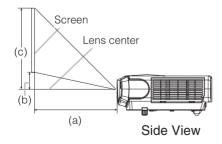
The values shown in the table are calculated for a full size screen: 800×600

- (a):Distance from the projector to the screen $(\pm 10\%)$
- (b):Distance from the lens center to the bottom of the screen $(\pm 10\%)$
- (c):Distance from the lens center to the top of the screen $(\pm 10\%)$



Screen Size [inch (m)]	. , .	ch (m)]	(b) [inch (cm)]	(C) [inch (cm)]
	Min.	Max.		
30 (0.8)	35(0.9)	42(1.1)	2(5)	16(41)
40 (1.0)	47(1.2)	56(1.4)	2(6)	22(55)
50 (1.3)	59(1.5)	71(1.8)	3(8)	27(69)
60 (1.5)	71(1.8)	85(2.2)	4(9)	32(82)
70 (1.8)	83(2.1)	99(2.5)	4(11)	38(96)
80 (2.0)	95(2.4)	114(2.9)	5(12)	43(110)
90 (2.3)	107(2.7)	128(3.3)	5(14)	49(123)
100 (2.5)	119(3.0)	143(3.6)	6(15)	54(137)
120 (3.0)	143(3.6)	171(4.4)	7(18)	65(165)
150 (3.8)	179(4.6)	215(5.5)	9(23)	81(206)
200 (5.0)	240(6.1)	287(7.3)	12(30)	108(274)
250 (6.3)	300(7.6)	359(9.1)	15(38)	135(343)
300 (7.5)	360(9.1)	431(10.9)	18(46)	162(411)

Reference for the 16:9 aspect ratio



Screen Size [inch (m)]	(a) [ind	ch (m)]	(b)	(C)
Screen Size [inch (in)]	Min.	Max.	[inch (cm)]	[inch (cm)]
30 (0.8)	38(1.0)	46(1.2)	0(1)	15(39)
40 (1.0)	51(1.3)	61(1.6)	1(2)	20(51)
50 (1.3)	64(1.6)	77(2.0)	1(2)	25(64)
60 (1.5)	77(2.0)	93(2.4)	1(2)	30(77)
70 (1.8)	90(2.3)	108(2.8)	1(3)	35(90)
80 (2.0)	104(2.6)	124(3.2)	1(3)	41(103)
90 (2.3)	117(3.0)	140(3.6)	1(4)	46(116)
100 (2.5)	130(3.3)	155(3.9)	2(4)	51(129)
120 (3.0)	156(4.0)	187(4.7)	2(5)	61(154)
150 (3.8)	196(5.0)	234(5.9)	2(6)	76(193)
200 (5.0)	216(6.6)	312(7.9)	3(8)	101(257)
250 (6.3)	327(8.3)	391(9.9)	4(10)	127(322)
300 (7.5)	393(10.0)	469(11.9)	5(12)	152(386)

Adjusting The Projector's Elevator

CAUTION • If you press the elevator buttons without holding the projector, the projector might crash down, overturn, smash your fingers and possibly result in malfunction. To prevent damaging the projector and injuring yourself, ALWAYS HOLD THE PROJECTOR whenever using the elevator buttons to adjust the elevator feet.

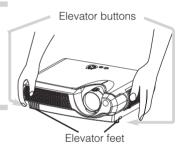
You can use the elevator feet to make adjustments if the surface on which you need to set the projector is uneven or if you otherwise need to adjust the angle of projection. The adjustment range of the elevator feet is 0 to 9 degrees.

Press and hold in the elevator buttons.

2 Raise or lower the projector to the desired height and then release the elevator buttons.

When you release the elevator buttons, the elevator feet will lock into position.

3 As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.



Connecting Your Devices

WARNING • Incorrect connecting could result in fire or electrical shock. Whenever attempting to connect other devices to the projector, please thoroughly read the "User's Manual - Safety Guide", this manual and the manual of each device to be connected.

CAUTION • TURN OFF ALL DEVICES prior to connecting them to the projector. Attempting to connect a live device to the projector may generate extremely loud noises or other abnormalities that may result in malfunction and/or damage to the device and/or projector.

ATTENTION • Make sure that you connect devices to the correct port. Incorrect connection may result in malfunction and/or damage to the device and/or projector. Refer to the section "TECHNICAL" of this manual for the pin assignment of connectors and RS-232C communication data.

• Some cables have to be used with core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.

• Secure the screws on the connectors and tighten.

• Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop to CRT display or to simultaneous LCD and CRT display). For details on how this is done, please refer to the instruction manual of the corresponding laptop computer.

NOTE About Plug-and-Play Capability

• This projector is compatible with VESA DDC 1/2B. Plug-and-Play can be achieved by connecting this projector to computers that are VESA DDC (display data channel) compatible. Please take advantage of this function by connecting the accessory RGB cable to the RGB port (DDC 1/2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.

• Plug-and-Play is a system composed of the computer, its operating system and peripheral equipment (i.e. display devices).

• Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.

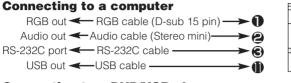
NOTE • Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

• For some RGB input modes, the optional Mac adapter is necessary.

• When the image resolution is changed on a computer, depending on an input, automatic adjust function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or TFT monitors to change the resolution.

Please refer to the following for connecting your devices. See the rear of the projector. You can see the ports.

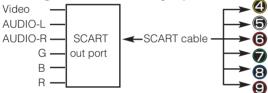




Connecting to a DVD/VCR player



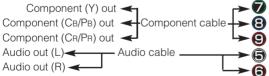
If using a SCART RGB input,



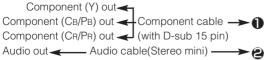
If using a S-video input,



If using a component input,



If using a component input from RGB port,



If using a RGB output, a Audio output,

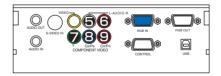
RGB in ← RGB cable (D-sub 15 pin) → (2) Audio in ← Audio cable (Stereo mini) → (3)

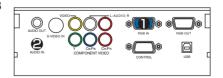


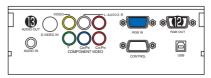












Connecting Power Supply

WARNING • Please use extra caution when connecting the power cord as incorrect or faulty connections may result in FIRE and/or ELECTRICAL SHOCK. Please adhere to the "User's manual – Safety Guide" and the following.

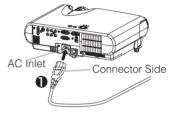
• Only plug the power cord into outlets rated for use with the power cord's specified voltage range.

• Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.

• Never modify the power cord. Never attempt to defeat the ground connection of the three-pronged plug.

• Make sure that you firmly connect the power cord to the projector and wall outlet.

1 Connect the connector of the power cord to the AC inlet of the projector. ①



2 Firmly plug the power cord's plug into the outlet.

Remote Control

Putting Batteries

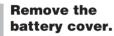
CAUTION Always handle the batteries with care and use them only as directed. Improper use may result in battery cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.

• Keep the battery away from children and pets.

• Be sure to use only the batteries specified for use with the remote control. Do not mix new batteries with used ones.

• When inserting batteries, verify that the plus and minus terminals are aligned correctly (as indicated in the remote control).

• When you dispose the battery, you should obey the law in the relative area or country.



1

Slide back and remove the battery cover in the direction of the arrow.



Insert the batteries.

2

Align and insert the two AA batteries according to their plus and minus terminals (as indicated in the remote control).



Close the battery cover.

Replace the battery cover in the direction of the arrow and snap it back into place.



Operating The Remote Control

ATTENTION • Do not drop or otherwise expose the remote control to physical impact.

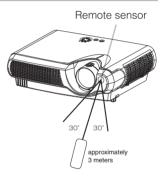
- Do not get the remote control wet or place it on wet objects. Doing so may result in malfunction.
- Remove the batteries from the remote control and store them in a safe place if you won't be using the remote control for an extended period.
- Replace the batteries whenever the remote control starts to malfunction.

• When strong lights, such as direct sunlight or light from an extremely close range (such as from an inverter fluorescent lamp), hit the projector's remote sensor, the remote control may cause to function. Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.

- The remote control works with the projector's remote sensor.
- The range of the remote sensor is 3 meters with a 60degree range (30 degrees to the left and right of the remote sensor).

Also a remote signal reflected in the screen etc. may be available. If it is difficult to send a remote signal to the sensor directly, please try.

• Since the remote control uses infrared light to send signals to the projector (Class1 LED), be sure to use the remote control in an area free from obstacles that could block the remote control's output signal to the projector.

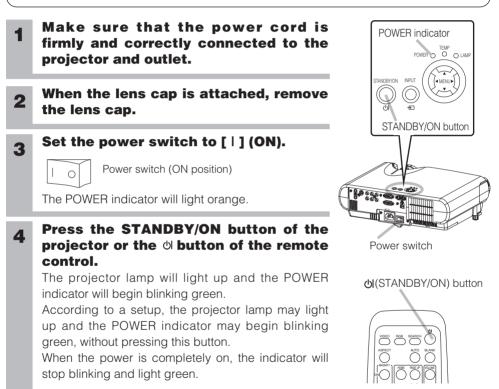


Power ON/OFF

Turning On The Power

WARNING • When the power is ON, a strong light is emitted. Do not look into the lens or vents of the projector.

NOTE • Turn the power on/off in right order. Please power on the projector before the connected devices. Power off the projector after the connected devices.



Power ON/OFF (continued)

Selecting An Input Signal



Press the INPUT button.

As illustrated below, each time you press the INPUT button, the projector switches between its input signal ports. Select the signal you wish to project.

RGB →VIDEO →S-VIDEO

COMPONENT VIDEO 🔸

Selecting a RGB signal, using the remote control

Press the RGB button.

When this button is pressed, the projector switches to the RGB port.

Selecting a video signal, using the remote control

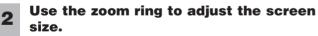
Press the VIDEO button.

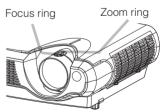
As illustrated below, each time you press the VIDEO button, the projector switches between its input signal ports. Select the signal you wish to project.



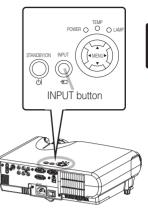
COMPONENT VIDEO

3



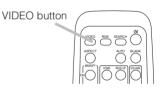


Use the focus ring to focus the picture.



RGB button





Power ON/OFF (continued)

Turning Off The Power

NOTE • Turn the power on/off in right order. Please power on the projector before the connected devices. Power off the projector after the connected devices.

1 Press the STANDBY/ON button of the projector or the \bigcirc button of the remote control.

The message "Power off?" will appear on the screen for approximately 5 seconds.

2 Press the STANDBY/ON button again while "Power off?" the message is visible.

The projector lamp will go off, and the POWER indicator will begin blinking orange.

Then the POWER indicator will stop blinking and light to solid orange when the lamp cooling is complete.

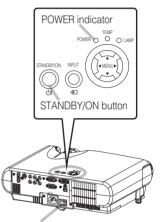
Switch the power switch to [O] (OFF).

3

Power switch (OFF position)

The POWER indicator will go off.





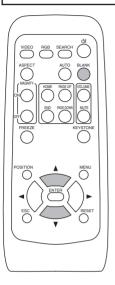
Power switch

₼(STANDBY/ON) button



Operating

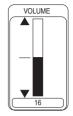
Adjusting The Volume



Press the VOLUME button.

As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the volume.



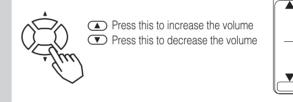


VOLUME

2 Use the \bigcirc / \bigcirc buttons to adjust the volume.

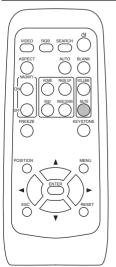
Press the VOLUME button again to close the dialog and complete this operation.

(Even if you don't do anything, the dialog will automatically disappear after a few seconds.)



Temporarily Muting The Sound

1



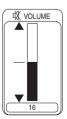
Press the MUTE button.

Press the MUTE button.

As illustrated on the right, a dialog will appear on the screen indicating that you have muted the sound. (If you don't do anything, the dialog will automatically disappear after a few seconds.)

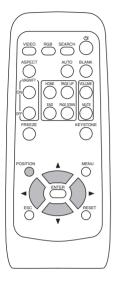
Press the MUTE or VOLUME button to restore the sound.





Operating (continued)

Adjusting The Position



Press the POSITION button.

As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the position.

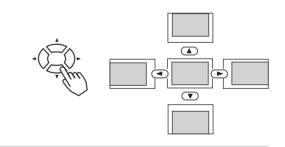




2 Use the (,), (), () buttons to adjust the position.

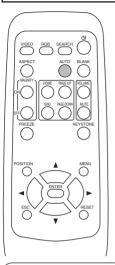
When you want to initialize the position, press the RESET button during adjustment.

Press the POSITION button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.) This function is only available for RGB input.



NOTE • When a menu is displayed, the operation of adjusting the position works for the position of not the picture but the menu.

Using The Automatic Adjustment Feature



Press the AUTO button.



Horizontal position (H POSITION), vertical position (V POSITION), clock phase (H PHASE) and horizontal size (H SIZE) are automatically adjusted.

Make sure that the application window is set to its maximum size prior to attempting to use this feature. Dark pictures may still be incorrectly adjusted. Use a bright screen when adjusting.

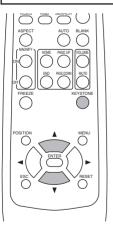
Automatic Adjustment for Video Input

The signal type best suited for the respective input signal is selected automatically.

This feature is available only if VIDEO is set to AUTO in the INPUT menu.

NOTE • The automatic adjustment operation requires approximately 10 seconds. Also, please note that it may not function correctly with some input.

Correcting Keystone Distortions



Press the KEYSTONE button.

As illustrated on the right, a dialog will appear on the screen to aid you in correcting the distortion.

EYSTONE



2 Use the (A), (V) buttons to correct distortion.

Press the KEYSTONE button again to close the dialog and complete this operation. (Even if you don't do anything, the dialog will automatically disappear after a few seconds.)



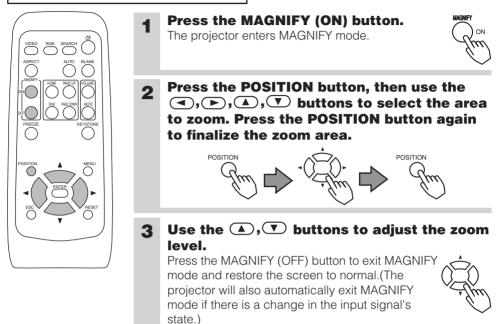
NOTE • When the WIDE is selected under the ASPECT item of the MAIN menu, this adjustment is ignored.

• The correcting keystone distortions function may not be work well with some types of input signals.

• The adjustable range for correcting keystone distortions will vary with the type of input signal.

Operating (continued)

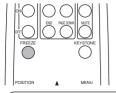
Using The Magnify Feature



NOTE • The projector will automatically exit from MAGNIFY mode if either the SEARCH, RGB, AUTO, ASPECT or VIDEO feature is used, or, if there is a change in the input signal's state.

• The correcting keystone condition may vary when the magnify function is active. In this case, please make the magnify OFF, so the correcting keystone condition will be restored.

Freezing The Screen



Press the FREEZE button.

The [II] icon appears and the screen will freeze at the current image. Press the FREEZE button



again and the $[\mathbf{b}]$ appears as the projector exits FREEZE mode.

NOTE • The freezing function will automatically finish if either the STANDBY/ON, SEARCH, RGB, VIDEO, BLANK, AUTO, VOLUME, MUTE, POSITION or MENU button of remote control is pressed, or if a button of projector is pressed, or if there is a change in the input signal's state.

• If the projector continues projecting the same image for a long time (i.e. you forget to exit FREEZE mode), the image might possibly remain as an afterimage. Do not leave the projector in FREEZE mode for too long.

Operating (continued)

Signal Searching



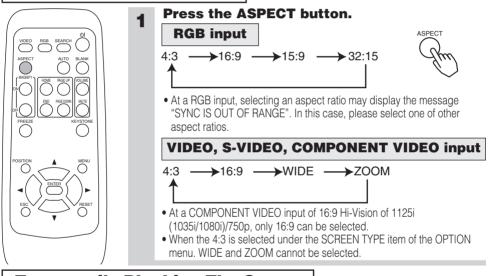
Cycle through input signals, displaying the images of retrieved signals. If no signal is found, returns to the signal that was selected before the search was begun.



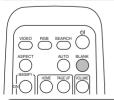
NOTE • May not function properly with some input signals.

• The signal searching function takes about 10 seconds to display an image.

Selecting The Aspect Ratio



Temporarily Blanking The Screen



Press the BLANK button.

The input signal screen is shut off, and a blank screen appears. You can set the blank screen using the menu (from the SCREEN menu. BLANK select BLANK). Press the BLANK button again to remove the blank screen,

and return to the input signal screen.

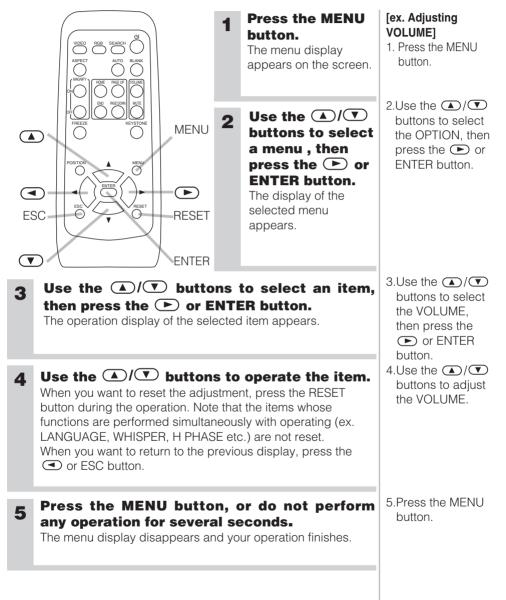


NOTE • The temporarily blanking function will automatically finish if either the STANDBY/ON, SEARCH, RGB, VIDEO, FREEZE, AUTO, VOLUME, MUTE, POSITION or MENU button of remote control is pressed, or if a button of projector is pressed, or if there is a change in the input signal's state.

Multifunctional Settings

Using The Menu Functions

This projector has the following menus: MAIN, PICTURE-1, PICTURE-2, INPUT, AUTO, SCREEN, OPTION. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.



MAIN Menu

With the MAIN menu, the items shown in the table below can be performed.

Perform each operation in accordance with the instructions in the table below.

Item	Description
KEYSTONE	 Adjust the Keystone (Vertical) Distortion: Upper in the data
BRIGHT	Adjust Brightness: Light
CONTRAST	Adjust Contrast: Strong $ \Leftrightarrow $ Weak
ASPECT	 Select an Aspect Ratio At a RGB input: 4:3
WHISPER	Select the Whisper Mode: NORMAL
MIRROR	Select a Mirror Status: NORMAL
LANGUAGE	Select a Menu Language: ENGLISH ④ ⇔ ♥ FRANÇAIS ④ ⇔ ♥ DEUTSCH ④ ⇔ ♥ ESPAÑOL ④ ⇐ ⇒ ♥ ITALIANO ④ ⇔ ♥ NORSK ④ ⇔ ♥ NEDERLANDS ④ ⇐ ⇒ ♥ 日本語 ④ ⇔ ♥ PORTUGUÊS ④ ⇔ ♥ 中文 ④ ⇔ ♥ 한글 ④ ⇐ ⇒ ♥ SVENSKA ④ ⇔ ♥ PYCCKMM ④ ⇔ ♥ SUOMI ④ ⇔ ♥ POLSKI
RESET	 Reset the MAIN Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The items of the MAIN menu are collectively returned to the initial setting. Note that the items WHISPER and LANGUAGE are not reset.

MENU	A	
MAIN	KEYSTONE	+0
PICTURE-1	BRIGHT	+0
PICTURE-2	CONTRAST	+0
INPUT	ASPECT	4:3
AUTO	WHISPER	NORMAL
SCREEN	MIRROR	NORMAL
OPTION	LANGUAGE	ENGLISH
	[Language]	
SELECT		

PICTURE - 1 Menu

With the PICTURE - 1 menu, the items shown in the Table below can be performed.

Perform each operation in accordance with the instructions in the table below.

Item	Description		
	Select a Gamma Mode: NORMAL ⇔ ♥ CINEMA ⇔ ♥ DYNAMIC ⇔ ♥ CUSTOM • Selecting the COSTOM and then pressing the ● or the ENTER button calls the CUSTOM menu. CUSTOM Menu Selecting one from the following and then pressing the ● or the ENTER button performs each function. GAMMA ⇔ ♥ COLOR TEMP ⇔ ♥ R ⇔ ♥ G ⊕ ♥ B • The R, G and B can be selected only when the USER is selected under the COLOR TEMP.		
	CUSTOM GAMMA	Adjust the Gamma Data: Up ▲ ⇔ ▼ Down	
GAMMA	CUSTOM COLOR TEMP	Select a Color Temperature Mode: HIGH ▲ ⇔ ▼ MIDDLE ▲ ⇔ ▼ LOW ▲ ⇔ ▼ USER	
	CUSTOM R	Adjust the Red Color Level for the USER mode of the COLOR TEMP: Strong ▲ ⇔ ▼ Weak	
	CUSTOM G	Adjust the Green Color Level for the USER mode of the COLOR TEMP: Strong ▲ ⇔ ▼ Weak	
	CUSTOM B	Adjust the Blue Color Level for the USER mode of the COLOR TEMP: Strong ▲ ⇔ ▼ Weak	
COLOR BAL R	Adjust the Red	Color Balance: Strong	
COLOR BAL G	Adjust the Gree	en Color Balance: Strong $ \Rightarrow $ Weak	
COLOR BAL B	Adjust the Blue	Color Balance: Strong (▲) ⇔ (▼) Weak	
SHARPNESS	 Adjust the Whole Sharpness: Clear → Soft This is a function for video inputs. This item can't be selected only at RGB inputs. 		
COLOR	 Adjust COLOR : Strong → ♥ Weak This is a function for video inputs. This item can't be selected only at RGB inputs including SCART RGB inputs. It is unavailable to deepen colors on SECAM signal input. (The adjustment bar position and value in menu box are changeable but no effect.) 		
TINT	 Adjust the Tint: Green		

MENU	A	
MAIN	GAMMA	NORMAL
PICTURE-1	COLOR BAL R	+0
PICTURE-2	COLOR BAL G	+0
INPUT	COLOR BAL B	+0
AUTO	SHARPNESS	+0
SCREEN	COLOR	+0
OPTION	TINT	+0
	MY MEMORY	SAVE1
: SELECT	V	

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PICTURE - 1 Menu (continued)

Item	Description		
MY MEMORY	 Load/Save a Setting: Selecting one from the following and then pressing the or the ENTER button performs each function. LOAD1		
RESET	 Reset the PICTURE-1 Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The items of the PICTURE-1 menu are collectively returned to the initial setting. Note that the items MY MEMORY and CUSTOM - GAMMA are not reset. 		

PICTURE - 2 Menu

With the PICTURE - 2 menu, the items shown in the table below can be performed.

Perform each operation in accordance with the instructions in the table below.

Item	Description		
V POSITION	 Adjust the Vertical Position: Up ▲ ⇔ ▼ Down This item can be selected only at a RGB input. 		
H POSITION	 Adjust the Horizontal Position: Left → Right This item can be selected only at a RGB input. 		
H PHASE	 Adjust the Horizontal Phase (to eliminate flicker) : Right ▲ ⇔ ▼ Left This item can be selected only at a RGB input or a COMPONENT VIDEO input. 		
H SIZE	 Adjust the Horizontal Size: Large → Small When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please press the RESET button during selection of this item to reset the H SIZE. This item can be selected only at a RGB input. 		
OVER SCAN	 Adjust the Over-scan Ratio: Large → → Small This item can be selected only at a VIDEO input, a S-VIDEO input or a COMPONENT VIDEO input. When this adjustment is too large, a certain degradation may appear at the frame area of the picture. In such a case, please adjust small. 		
RESET	 Reset the PICTURE-2 Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The items of the PICTURE-2 menu are collectively returned to the initial setting. Note that the H PHASE item is not reset. 		

INPUT Menu

With the INPUT menu, the items shown in the table below can be performed.

MENU MAIN COLOR SPACE AUTO PICTURE-1 COMPONENT COMPONENT PICTURE-2 VIDEO AUTO TURN ON FRAME LOCK INPUT AUTO 3D-YCS NORMAL SCREEN VIDEO NR LOW OPTION PROGRESSIVE TURN OFF INFORMATION SELECT -

Perform each operation in accordance with the instructions in the table below.

Item	Description		
COLOR SPACE	 Select a Color Space Mode: AUTO ▲ ⇔ ▼ RGB ▲ ⇔ ▼ SMPTE240 ▲ ⇔ ▼ REC709 ▲ ⇔ ▼ REC601 This item can be selected only at a RGB input or a COMPONENT VIDEO input. When the AUTO is selected, the optimum mode is automatically selected. However, it may not work well at some signals. In such a case, select the SMPTE240 or REC709 for HDTV signal. 		
COMPONENT	 Select a Function of COMPONENT VIDEO Jacks: COMPONENT → SCART RGB When the SCART RGB is selected, the COMPONENT VIDEO jacks function as ports for a RGB input with a SCART cable. Refer to the section "Signal Connectors" of "TECHNICAL". 		
VIDEO	 Select a Signal Type Mode: AUTO (▲) ⇔ (♥) NTSC (▲) ⇔ (♥) PAL (▲) ⇔ (♥) SECAM (▲) ⇐ ⇒ (♥) NTSC 4.43 (▲) ⇔ (♥) M-PAL (▲) ⇔ (♥) N-PAL This item performs only at a VIDEO input or a S-VIDEO input. For a COMPONENT VIDEO input, although this item is ineffective, the signal type is identified automatically even if the AUTO is not selected. Selecting the AUTO automatically selects the optimum mode. However, it may not work well at a PAL60 signal and some other signals. If the picture becomes unstable (ex. a irregular picture, color lack), please select the mode depending on the input signal. The AUTO operation requires approximately 10 seconds. 		
FRAME LOCK	 Select the Frame Lock Mode: TURN ON → TURN OFF This function performs only at a RGB input with vertical frequency of 48 to 72 Hz. When the TURN ON is selected, a moving picture is displayed more smoothly. This function may cause a certain degradation of the picture. In such a case, please select the TURN OFF. 		
3D-YCS	 Select a 3D-YCS mode: STILL IMAGE → NORMAL → TURN OFF This function performs only at a VIDEO input of NTSC 3.58. NORMAL is the mode for images with a lot of motions like movies, and STILL IMAGE is the mode for images with few motions or completely still ones like slides. When this function performs, the VIDEO NR function is ineffective. 		

INPUT Menu (continued)

Item	Description	
VIDEO NR	 Select a Noise Reduction Mode: HIGH → → MIDDLE → → LOW This function performs only at a VIDEO input or a S-VIDEO input. At a VIDE input of NTSC 3.58, this function performs only when the TURN OFF selected under the 3D-YCS. When the HIGH, the MIDDLE or the LOW is selected, the noise on screen reduced according to each mode. When this function is excessive, it may cause a certain degradation of t picture. 	
PROGRESSIVE	 Select the Progressive Mode: TV ▲ ⇔ ▼ FILM ▲ ⇔ ▼ TURN OFF This function performs only at an interlaced signal of a VIDEO input, a S VIDEO input or a COMPONENT VIDEO input of 525i or 625i signal. The FILM mode is adaptable to the 3-2 Pull-Down system to the conversion. When the TV or FILM is selected, the screen image will be crisper. But it ma cause a certain defect (for example, jagged line) of the picture at a quic moving object. In such a case, please select the TURN OFF, even though the screen image may lose the crisp. This function may cause a certain degradation of the picture. In such a case please select the TURN OFF. 	
INFORMATION	 Display the Information: Pressing the or the ENTER button performs this function. Use this function when you want the information about the current input (ex. the resolution and the vertical frequency at a RGB input, the signal type of a video input) and setting states of the COMPONENT, the VIDEO and the FLAME LOCK. 	
S2-ASPECT	 Select the S2-ASPECT Mode: TURN ON → TURN OFF This function performs only at a S-VIDEO input. When the TURN ON is selected, an S2-Video signal can be identified and the optimum aspect ratio is automatically selected. When the ASPECT button of the remote control is used or the ASPECT item of the MAIN menu is operated, the S2-ASPECT mode will be switched to the TURN OFF automatically. 	
RESET	 Reset the INPUT Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The items of the INPUT menu are collectively returned to the initial setting. Note that the INFORMATION item is not reset. 	

AUTO Menu

With the AUTO menu, the items shown in the table below can be performed.

Perform each operation in accordance with the instructions in the table below.

Item	Description	
ADJUST	 Automatically Adjust the Picture: Pressing the or the ENTER button performs this function. At a RGB input: V POSITION, H POSITION, H PHASE and HSIZE are automatically adjusted. Please use this function with the maximum window size. At a VIDEO input or S-VIDEO input: This function performs only when the AUTO is selected under the VIDEO item of the INPUT menu. For a COMPONENT VIDEO input, although this function is ineffective, the signal type is identified automatically even if the AUTO is not selected. This function automatically selects the optimum mode for the input signal. However, it may not work well at a PAL60 signal and some other signals. If the picture becomes unstable (ex. irregular picture, color lack), please use the function of VIDEO of the INPUT menu. The operation of this function requires approximately 10 seconds. Also, please note that it may not function correctly with some input. 	
POWER OFF	 Set the Automatically Power Off Timer: Long (Max. 99 minutes.) → Short (Min. 0 minute =DISABLE) This function performs only when the time is set to 1 to 99. When the set time passes without a valid signal (there is no signal, or the signal is out of specifications), the projector lamp automatically goes off, and the POWER indicator begins blinking. Please refer to the section "Turning OFF The Power" of "Power ON/OFF" about the turning off. 	
SEARCH	 Automatically Signal Search: TURN ON → TURN OFF If the TURN ON is selected under this item when no signal input is detected, the projector begins searching for an input signal. When an input signal is detected the projector will cease searching and the picture will appear. The priority of a search is as follows: RGB → VIDEO → S-VIDEO → COMPONENT VIDEO If the projector is unstable to find an input signal at any of its ports, it will return to the state it was in prior to the search. 	
RESET	 Reset the AUTO Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The items of the AUTO menu are collectively returned to the initial setting. Note that the item ADJUST is not reset. 	

MENU MAIN PICTURE-1 PICTURE-2 INPUT AUTO SCREEN OFTION C:: SELECT

SCREEN Menu

With the SCREEN menu, the items shown in the table below can be performed.

Perform each operation in accordance with the instructions in the table below.

Item	Description	
BLANK	 Select a Blank Screen Color: BLUE ▲ ⇔ ♥ WHITE ▲ ⇔ ♥ BLACK The blank screen of selected color is displayed by pressing the BLANK button. Please refer to the section "Temporarily Blanking The Screen" of "Operating" about the screen blanking. 	
START UP	 Select the Start Up Screen: TURN ON → TURN OFF If the TURN ON is selected when there is no signal or the detected signal is out of specifications, the blank screen is displayed. 	
MENU POSITION	Adjust a Menu Position: Pressing the or ENTER button start adjusting, Up ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
MESSAGE	 Select the Message Mode: TURN ON → TURN OFF When the TURN OFF is selected, the following message functions are disabled: The message of "AUTO IN PROGRESS" The message of "NO INPUT IS DETECTED" The message of "SYNC IS OUT OF RANGE" The message while being searched for an input signal, "Searching" The message when an input signal is detected, "Detecting" The indication of the input signal by input change. 	
RESET	Reset the SCREEN Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL • The items of the SCREEN menu are collectively returned to the initial setting.	

MENU			
MAIN	BLANK	BLACK	
PICTURE-1	START UP	TURN ON	
PICTURE-2	MENU POSITION		
INPUT	MESSAGE	TURN ON	
AUTO	RESET		
SCREEN			
OPTION			
SELECT			

OPTION Menu

With the OPTION menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

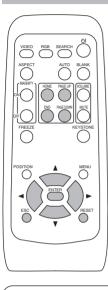
MENU		
MAIN	VOLUME	16
PICTURE-1	SCREEN TYPE	4:3 🗖
PICTURE-2	LAMP TIME	1234h
INPUT	FILTER TIME	21h
AUTO	RESET	
SCREEN		
OPTION		
	l	
: SELECT		

Item	Description	
VOLUME	Adjust Volume: High ▲ ⇔ ▼ Low	
SCREEN TYPE	 Select the Screen Type: 4:3 [™] (▲) ⇔ (♥) 16:9 [™] (▲) ⇔ (♥) 16:9 [™] (▲) ⇔ (♥) 16-9 [™] Please select the screen type used and the picture position in case of 16:9. This selection is used as basic information for a suitable display. This function should be performed before other picture adjustment. 	
LAMP TIME	 To begin the operation of this item, please press the button of the projector or the RESET button of the remote control for 3 seconds. Reset the Lamp Timer: Selecting the RESET performs this function. RESET	
FILTER TIME	 To begin the operation of this item, please press the button of the projector or the RESET button of the remote control for 3 seconds. Reset the Filter Timer: Selecting the RESET performs this function. RESET ← CANCEL The numerical value of four digits shown on this menu is the projector us time since the last RESET operation of this item. The value is reset to 0 at the same time the RESET is selected. The value of this function is used to display the message of "CLEAN THE AI FILTER". So this function must be performed only immediately after cleanin or replacing the air filter. Do not perform this function unless you have cleaned or replaced the air filter Perform this function causes incorrect operation of the message function. Please see to the section "Air Filter" about cleaning and replacing the a filter. 	
RESET	 Reset the OPTION Menu Items: Selecting the EXECUTE performs this function. EXECUTE ← CANCEL The SCREEN TYPE item is returned to the initial setting. Note that the items VOLUME, LAMP TIME and FILTER TIME are not reset. 	

You can use the remote control as a simplified mouse or keyboard.

A CAUTION Mistaken use of the mouse/keyboard control could damage your equipment.

- Only connect to a PC.
- Before connecting, read the manuals of the device you will connect.
- Do not unplug the connector cables while the computer is operating.



USB Mouse/Keyboard Control

1. Connect the projector's USB terminal to the computer using a USB cable. The functions in the table below can be controlled.

Available Functions	Remote Control Operation
Move Pointer	Use () () Use (
Left click with mouse	Press ENTER button
Right click with mouse	Press RESET button
Press keyboard's HOME key	Press HOME button
Press keyboard's END key	Press END button
Press keyboard's PAGE UP key	Press PAGE UP button
Press keyboard's PAGE DOWN key	Press PAGE DOWN button
Press keyboard's ESC key	Press ESC button

NOTES

- It may not be possible to control notebook PCs, and other computers with built-in pointing devices (e.g. track balls), using this remote control. In this case, before connecting go into BIOS (system setup) and select external mouse, and disable the pointing devices. In addition, the mouse may not function if the computer does not have the needed utility program. See your computer's hardware manual for details.
- The USB control can be used with Windows 95 OSR 2.1 or higher. It may not be possible to use the remote control, depending on the computer's configurations and mouse drivers.
- The USB control can only be used for the functions listed above. You cannot do things like press two buttons at once (for instance, pressing two buttons at the same time to move the mouse pointer diagonally).
- This function is not available while the lamp is warming up (the POWER indicator flashes green), while adjusting the volume and display, correcting for trapezoidal distortion, zooming in on the screen, using the BLANK function, or displaying the menu screen.

A WARNING





HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

The projector uses a high-pressure mercury glass lamp. The lamp can **break with a loud bang, or burn out,** if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for **shards of glass** to fly into the lamp housing, and for **gas containing mercury** to escape from the projector's vent holes.

About disposal of a lamp • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws.

For lamp recycling, go to www.lamprecycle.org. (in USA)

For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.

 If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.



- Disconnect the plug from the power outlet
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
- Use only the lamp of the specified type DT00621.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.



- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the indicators or a message prompts you to replace the lamp (see the section "Related Messages" and "Regarding the indicator Lamps"), replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.

Replacing The Lamp

MARNING • Please carefully read the "User's Manual - Safety Guide".

CAUTION • Do not reset the lamp timer without replacing the lamp.

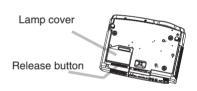
• When you replace the lamp, please replace also the air filter. The air filter may be attached when you buy a replacement lamp for this projector. Please ask your dealer.

If the indicators or a message prompts you to replace the lamp, replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. If the projector is mounted on the ceiling, or if the lamp has broken, do not try to clean the projector or replace the lamp yourself.

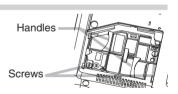
- **1** Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
- 2 Contact your local dealer to prepare a new lamp. Tell the dealer your lamp type number. If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

In the case of replacement by yourself,

3 After making sure that the projector has cooled adequately, slowly flip over the projector, so that the bottom is facing up.



- **4** Hold the release button while sliding and taking up the lamp cover.
- **5** Unscrew the 2 screws, and slowly pick up the lamp by the handles.
- **6** Insert the new lamp, and tighten the 2 screws firmly to lock it in place.



- **7** Slide the lamp cover into place until it locks into position.
- 8 Slowly turn the projector so that the top is facing up.
- **9** Turn on the projector, and reset the lamp timer. When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER Ohr." is displayed, complete the following operation within 10 minutes of switching power on.
 - (1) While the projector running, press the MENU button to open the menu.
 - (2) Choose the "OPTION" on the menu using the ▲/ button, then press the button or ENTER button.
 - (3) Choose the "LAMP TIME" using the () v button, then press and hold the button of projector or the RESET button of remote control for 3 seconds.
 - (4) Choose the "RESET" using the
 button.

MARNING • Please carefully read the "User's Manual - Safety Guide".

• Before replacing the air filter, make sure the power switch is off and the power cable is not plugged in.

• Use the air filter of the specified type only. Type number: NJ08292 (sold separately)

• Do not use the projector with the air filter and filter cover removed. The use without the air filter could result in damage.

• If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The power is automatically turned off in order to prevent the projector from overheating internally.

• When you replace the lamp, please replace also the air filter. The air filter may be attached when you buy a replacement lamp for this projector. Please ask your dealer.

Caring For The Air Filter

The air filter should be cleaned about every 100 hours. If the indicators or a message prompts you to clean the air filter (see the section "Related Messages" and "Regarding The Indicator Lamps"), clean the air filter as soon as possible. If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction.

Turn off the projector, and unplug the power cord.



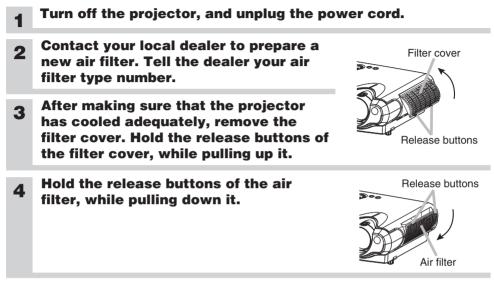
3 Reset the filter timer.

- (1) Turn on the projector. While the projector running, press the MENU button to open the menu.
- (2) Choose the "OPTION" on the menu using the (a)/ (r) button, then press the button or ENTER button.
- (3) Choose the "FILTER TIME" using the
 → /
 button, then press and hold the
 button of projector or the RESET button of remote control for 3 seconds.
- (4) Choose the "RESET" using the
 button.

Air Filter (continued)

Replacing The Air Filter

If the soiling will not come off the air filter, or it becomes damaged, then it needs to be replaced. Please replace the air filter as soon as possible.



Insert a new air filter, and replace the filter cover.

Reset the filter timer.

- (1) Turn on the projector. While the projector running, press the MENU button to open the menu.
- (3) Choose the "FILTER TIME" using the
 → /
 button, then press and hold the
 button of projector or the RESET button of remote control for 3 seconds.
- (4) Choose the "RESET" using the
 button.

5

6

MARNING • Please carefully read the "User's Manual - Safety Guide".

• Before replacing the air filter, make sure the power switch is off and the power cable is not plugged in.

ATTENTION • Do not use cleaners or chemicals other than those listed below,

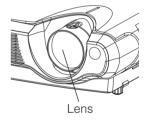
- including benzene and paint thinner.
- Do not use aerosols or sprays.
- Do not polish or wipe with hard objects.

Caring For The Inside Of The Projector

In order to ensure the safe use of your projector, please have it cleaned and inspected by your local dealer about once every 2 years. Never try to care for the inside of the unit yourself. Doing so is dangerous.

Caring For The Lens

- **1** Turn off the projector, and unplug the power cord.
- 2 Lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.



Caring For The Cabinet And Remote Control

Turn off the projector, and unplug the power cord.

2 Wipe lightly with gauze or a soft cloth. If soiling is severe, dip soft cloth in water or a neutral cleaner dilute in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

Troubleshooting

Related Messages

When the unit's power is ON, messages such as those shown below may be displayed. When any such message is displayed on the screen, please respond as described below. If the same message is displayed after the treatment, or if a message other than the following appears, please contact your dealer or service company.

Message	Description
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. (*1)	Lamp usage time is approaching 2000 hours. (*2) Preparation of a new lamp, and an early lamp change is recommended. After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER ** hr. (*1)	Lamp usage time is approaching 2000 hours. (*2) A lamp change within ** hours is recommended. When lamp usage reaches 2000 hours, the power will automatically be turned OFF. Please change the lamp by referring to the "Lamp" section of this manual. After you have changed the lamp, please be sure to reset the lamp timer.
CHANGE THE LAMP AFTER REPLACING LAMP, RESET THE LAMP TIMER. THE POWER WILL TURN OFF AFTER 0 hr.	As lamp use has reached 2000 hours (*2), the power will soon be automatically turned OFF. Please immediately turn the power off, and change the lamp by referring to the "Lamp" section of this manual. After you have changed the lamp, please be sure to reset the lamp timer.
NO INPUT IS DETECTED ON ***	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ON *** [ft] *****kHz [fV] *****Hz	The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit. Please confirm the specs for this unit or the signal source specs.
CHECK THE AIR FLOW	The internal portion temperature is rising. Please turn the power OFF, and allow the unit to cool down at least 20 minutes. After having confirmed the following items, please turn the power ON again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Does the peripheral temperature exceed 35°C?

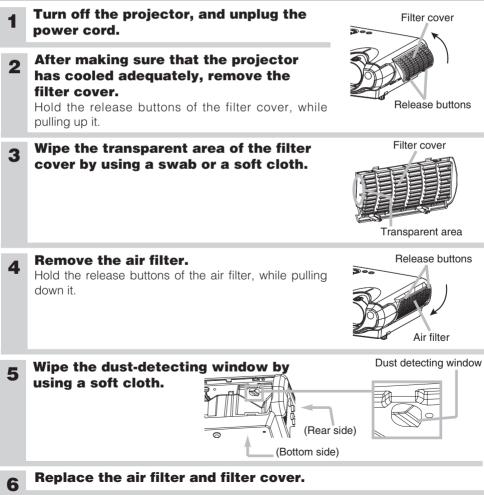
NOTE (*1) • Although this message will be automatically disappeared after around 3 minutes, it will be reappeared every time the power is turned ON.

(*2) • Lamps have a finite product life. Lamps are characterized by the fact that, after long hours of usage, a lamp will no longer light up, or the lamp will break or burst, etc. This unit is equipped with an automatic shut-down function, such that the power will automatically be turned OFF when lamp usage time has reached 2,000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes; a lamp may thus fail to light even prior to the functioning of the automatic shut-down function of this unit.

Related Messages (continued)

Message	Description
CLEAN THE AIR FILTER POWER OFF FIRST, THEN CLEAN THE AIR FILTER. AFTER CLEANING THE AIR FILTER, RESET THE FILTER TIMER.	A note of precaution when cleaning the air filter. Please immediately turn the power OFF, and clean or change the air filter by referring to the "Air Filter" section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer. If the same message is displayed after the treatment, please clean the transparent area of filter cover and the dust-detecting window, according to the following.

ATTENTION • The transparent area of filter cover and the dust-detecting window should be cleaned for normal operation of the optical dust detecting system. Please pay attention not to remain fiber or fragment of cloth inside the duct.



Regarding The Indicator Lamps

ATTENTION • When the interior portion has become overheated, for safety purposes, the power source is automatically turned off, and the indicator lamps may also be turned off. In such a case, press the "O" (power OFF) side of the main power switch, and wait at least 45 minutes. After the unit has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

Lighting and flashing of the POWER indicator, the LAMP indicator, and the TEMP indicator have the meanings as described in the table below. Please respond in accordance with the instructions within the table. If the same indication is displayed after the treatment, or if an indication other than the following is displayed, please contact your dealer or service company.

POWER indicator	LAMP indicator	TEMP indicator	Description	
Lighting in orange	Turned off	Turned off	The unit is in a standby state. Please refer to the "Power ON/OFF" section of this manual.	
Flashing in green	Turned off	Turned off	The unit is warming up. Please wait.	
Lighting in green	Turned off	Turned off	The unit is in an ON state. Ordinary operations may be performed.	
Flashing in orange	Turned off	Turned off	The unit is cooling down. Please wait.	
Blinking in red	-	-	The unit is cooling down. A certain error has been detecte Wait until the POWER indicator has finished flashing, and the perform the proper response measure using the ite descriptions below as reference.	
Lighting or blinking in red	Lighting in red	Turned off	The projector lamp has not been properly fixed (attached), the projector lamp does not light, and/or there is a possibility that the interior portion has become heated. Turn the power OFF and wait at least 20 minutes. After the unit has sufficiently cooled down, please make confirmation of the following items, and then turn the power ON again. If the same indication is displayed, please change the lamp. • Is there blockage of the air passage aperture? • Is the air filter is dirty?	
			• Does the peripheral temperature exceed 35°C?	
Lighting or blinking in red	Blinking in red	Turned off	The lamp cover has not been properly fixed (attached). Turn the power OFF and wait at least 45 minutes. After the unit has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power ON again.	

Regarding The Indicator Lamps (continued)

POWER indicator	LAMP indicator	TEMP indicator	Description
Lighting or blinking in red	Turned off	Blinking in red	The cooling fan is not operating. Turn the power OFF and wait at least 20 minutes. After the unit has sufficiently cooled down, please make confirmation of the following item, and then resent the power to ON. • Is there no foreign matter caught in the cooling fan?
Lighting or blinking in red	Turned off	Lighting in red	 There is a possibility that the interior portion has become heated. Turn the power OFF and wait at least 20 minutes. After the unit has sufficiently cooled down, please make confirmation of the following item, and then resent the power to ON. Is there blockage of the air passage aperture? Is the air filter is dirty? Does the peripheral temperature exceed 35°C?
Lighting in green	Alternative blinking in the red		There is a possibility that the interior portion has become overcooled. Please use the unit within the usage temperature parameters (0°C to 35°C). After the treatment, resent the power to ON.
Lighting in green	Simultaneous blinking in red		It is time to clean the air filter, or there is no air filter. Please immediately turn the power OFF, and clean or change the air filter by referring to the "Air Filter" section of this manual. After you have cleaned or changed the air filter, please be sure to reset the filter timer. After the treatment, resent the power to ON.

Phenomena That May Easily Be Mistaken For Machine Defects

MARNING • Please carefully read the "User's Manual - Safety Guide".

Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur.

NOTE • Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

Before requesting repair, please check in accordance with the following chart. If the situation cannot be corrected, then contact your dealer.

Phenomenon	Cases not involving a machine defect, and Items to be confirmed			
	The main power source is not ON. Turn on the main power.	11,14		
Power does not	The electrical power cord is not plugged in. Correctly connect the power cord.			
come ON.	The main power source has been interrupted during operation, such as by a power outage (blackout), etc. Be sure to press the "○" (power OFF) side of the main power switch, and leave this OFF for at least 20 minutes. After the unit has sufficiently cooled down, turn ON the power source.	14		
Neither sounds nor pictures are	The input changeover settings are mismatched. Select the input signal, and correct the settings.	15		
outputted.	No signal is being inputted. Correctly connect the connection cables.	10		
	The electrical wiring to this unit is not correctly connected. Correctly connect the connection cables.			
Pictures are displayed, but no sounds are heard.	The volume setting has been set at (or adjusted to) an extremely low level. Adjust the VOLUME setting to a higher level.	17		
	The MUTE mode is the current setting. Press the MUTE button to release (change) the MUTE mode setting.	17		
	The electrical wiring to this unit is not correctly connected. Correctly connect the connection cables.	10		
Sounds are heard, but no pictures are displayed.	The brightness setting has been set at (or adjusted to) an extremely low level. Adjust the BRIGHT setting to a brighter level.	23		
	The lens cap has not been removed. Remove the lens cap.	4,14		
Colors have a faded- out appearance, or Color tone is poor.	Color settings are not correctly adjusted. Perform picture adjustments by changing the COLOR BAL R, COLOR BAL G, COLOR BAL B, COLOR, and/or the TINT settings, etc.			

Phenomena That May Easily Be Mistaken For Machine Defects (continued)

Phenomenon	Cases not involving a machine defect, and Items to be confirmed		
Pictures appear dark.	The brightness setting and/or contrast setting has not been properly adjusted. Perform picture adjustments by changing the BRIGHT and/or CONTRAST settings, etc.		
	The WHISPER mode is the current setting. Change (by releasing) from the WHISPER mode.		
	Lamp is approaching the end of its product lifetime. Exchange the old lamp with a new lamp.	32,33	
Pictures appear blurry.	Either the FOCUS setting or the H PHASE is not properly adjusted. Adjust the focus and the H PHASE setting.	15,26	
biurry.	The lens is dirty or misty. Clean the lens.	36	

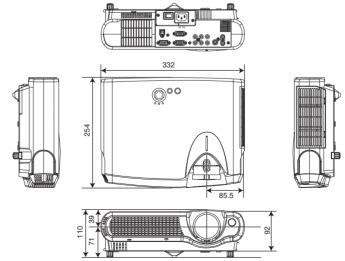
Warranty And After-Service

If a problem occurs with the equipment, first refer to the "Troubleshooting" section of this manual, and run through the suggested checks. If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

Specifications

	Item	Specification		
Product n	ame	Liquid crystal projector		
Liquid	Panel size	1.4 cm (0.55 type)		
crystal	Drive system	TFT active matrix		
panel	Pixels	480,000 pixels (800 horizontal x 600 vertical)		
Lens		Zoom lens F=1.6 ~ 1.8 f=16.8 ~ 20.1 mm		
Lamp		160W UHB		
Speaker		1.0W		
Power su	pply	AC100 ~ 120V, 2.6A / AC220 ~ 240V, 1.4A		
Power co	nsumption	240W		
Temperat	ure range	0 ~ 35°C (Operating)		
Size		332 (W) x 92 (H) x 254 (D) mm (Not including protruding parts)		
Weight (n	nass)	3.0 kg		
Ports		RGB Input Port AUDIO Input Ports RGB IN 1 AUDIO IN		
Optional Parts		Lamp: 456-8055 Air Filter: NJ08292 For others, consult your dealer.		

NOTE • This specifications are subject to change without notice.



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User's Manual - Safety Guide

Thank you for purchasing this projector.

▲ WARNING • Before using, read these user's manuals of this projector to ensure correct usage through understanding. After reading, store them in a safe place for future reference. Incorrect handling of this product could possibly result in personal injury or physical damage. The manufacturer assumes no responsibility for any damage caused by mishandling that is beyond normal usage defined in these manuals of this projector.

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.

About The Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols



This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.



This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).



This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

\land WARNING

Never use the projector if a problem should occur.

Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock.

In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.

• The power outlet should be close to the projector and easily accessible.

Use special caution for children and pets.

Incorrect handling could result in fire, electrical shock, injury, burn or vision problem.

Use special caution in households where children and pets are present.

Do not insert liquids or foreign object.

Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present.

If liquids or foreign object should enter the projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

- Do not place the projector in a bathroom.
- Do not expose the projector to rain or moisture.

• Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc on or around the projector.

- Do not place metals, combustibles, etc on or around the projector.
- To avoid penetration of foreign objects, do not put the projector into a case or bag together with any thing except the accessories of the projector, signal cables and connectors.

Never disassemble and modify.

The projector contains high voltage components. Modification and/or disassembly of the projector or accessories could result in fire or electrical shock.

- Never open the cabinet.
- Ask your dealer to repair and clean insider.

Do not give the projector any shock or impact.

If the projector should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

If the projector is shocked, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

Do not place the projector on an unstable surface.

If the projector should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

• Do not place the projector on an unstable, slant or vibrant surface such as a wobbly or inclined stand.

• Use the caster brakes placing the projector on a stand with casters.

• Do not place the projector in the side up position, the lens up position or the lens down position.

• In the case of a ceiling installation or the like, contact your dealer before installation.



Disconnect the plug from the power outlet.











Safety Precautions (continued)

\land WARNING

Be cautious of High temperatures of the projector.

High temperatures are generated when the lamp is lit. It could result in fire or burn. Use special caution in households where children are present.

Do not touch about the lens, air fans and ventilation openings during use or immediately after use, to prevent a burn. Take care of ventilation.

- Keep a space of 30 cm or more between the sides and other objects such as walls.
- Do not place the projector on a metallic table or anything weak in heat.

• Do not place anything about the lens, air fans and ventilation openings of the projector.

- Do not use with the ventilation opening facing downwards.
- Never block the air fan and ventilation openings.
- Do not cover the projector with a tablecloth, etc.
- Do not place the projector on a carpet or bedding.

Never look through the lens or openings when the lamp is on.

The powerful light could adversely affect vision.

Use special caution in households where children are present.

Use only the correct power cord and the correct power outlet.

Incorrect power supply could result in fire or electrical shock.

• Use only the correct power outlet depending on the indication on the projector and the safety standard.

• The enclosed power cord must be used depending on the power outlet to be used.

Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

• Do not touch the power cord with a wet hand.

• Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.

• Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.

Be sure to connect with ground wire.

Connect the ground terminal of AC inlet of this unit with the ground terminal provided at the building using the correct power cord; otherwise, fire or electric shock can result.

• Don't take the core of power cord away.











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Safety Precautions (continued)

\land WARNING

Be careful in handling the light source lamp.

The projector uses a high-pressure mercury glass lamp made of glass. The lamp can break with a loud bang, or burn out. When the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

Please carefully read the section "Lamp".

Be careful in handling the power cord and external connection cables.

If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

If the power cord or cables is damaged (exposed or broken core wires, etc.), contact your dealer.

• Do not place the projector or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.

• Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.

- Do not place the cord near the heater.
- Avoid bending the power cord sharply.
- Do not attempt to work on the power cord.

Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

• Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.

- Do not allow the battery in a fire or water.
- Avoid fire or high-temperature environment.
- Do not hold the battery with the metallic tweezers.
- Keep the battery in a dark, cool and dry play.
- Do not short circuit the battery.

4

- Do not recharge, disassemble or solder the battery.
- Do not give the battery a physical impact.
- Use only the battery specified in the other manual of this projector.

• Make sure the plus and minus terminals are correctly aligned when loading the battery.

• If you observe a leakage of the battery, wipe out the flower and then replace the battery. If the flower adheres your body or clothes, rinse well with water.

• Obey the local laws on disposing the battery.





Safety Precautions (continued)

Be careful in moving the projector.

Neglect could result in an injury or damage.

• Do not move the projector during use. Before moving, disconnect the power cord and all external connections, and close the slide lens door or attach the lens cap.

- Avoid any impact or shock to the projector.
- Do not drag the projector.
- For moving the projector, use the enclosed case or bag if provided.

Do not put anything on top of the projector.

Placing anything on the projector could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.

Do not attach anything other than specified things to the projector.

Neglect could result in an injury or damage.

• Some projector has a screw thread in a lens part. Do not attach anything other than specified options (such as conversion lens) to the screw thread.

Avoid a smoky, humid or dusty place.

Placing the projector in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.

• Do not place near the smoking space, the kitchen or a humidifier.

Take care of the air filter to normal ventilate.

The air filter should be cleaned periodically. If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The projector may display the message such as "CHECK THE AIR FLOW" or turn off the projector, to prevent the internal heat level rising.

• When the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible.

• If the soiling will not come off the air filter, or it becomes damaged, replace the air filter.

• Use the air filter of the specified type only. Please order the air filter specified in the other manual of this projector to your dealer.

• When you replace the lamp, replace also the air filter. The air filter may be attached when you buy a replacement lamp for this projector.

• Do not turn on the projector without air filter.

Avoid a high temperature environment.

The heat could have adverse influence on the cabinet of the projector and other parts. Do not place the projector, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.

Remove the power cord for complete separation.

• For safety purposes, disconnect the power cord if the projector is not to be used for prolonged periods of time.

• Before cleaning, turn off and unplug the projector. Neglect could result in fire or electrical shock.















Disconnect the plug from the power outlet.

Ask your dealer to cleaning inside of the projector about every two years.

Accumulations of dust inside the projector cause result in fire or malfunction. Cleaning inside is more effective if performed before every humid periods such as rainy season.



• Do not clean inside yourself because it is dangerous.

NOTE

Do not give the remote control any physical impact.

A physical impact could cause damage or malfunction of the remote control.

- Take care not to drop the remote control.
- Do not place the projector or heavy objects on the remote control.

Take care of the lens.

- Close the slide lens door or attach the lens cap to prevent the lens surface being scratched when the projector is not used.
- Do not touch the lens to prevent fog or dirt of the lens that cause deterioration of display quality.
- Use commercially available lens tissue to clean the lens (used to clean cameras, eyeglasses, etc.). Be careful not to scratch the lens with hard objects.

Take care of the cabinet and the remote control.

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

- Use a soft cloth to clean the cabinet and control panel of the projector and the remote control. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth. Do not use undiluted detergent directly.
- Do not use an aerosol sprays, solvents, volatile substances or abrasive cleaner.
- Before using chemical wipes, be sure to read and observe the instructions.
- Do not allow long-term close contact with rubber or vinyl.

About bright spots or dark spots.

Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect.

Be careful of printing of the LCD panel.

If the projector continues projecting a still image, inactive images or 16:9 aspect images in case of 4:3 panel, etc., for long time, the LCD panel might possibly be printed.

In such a case, please make the projector project a whole white screen for 1 hour or more. You can use the BLANK function of the projector.

About consumables.

Lamp, LCD panels, polarizors and other optical components, and air filter and cooling fans have a different lifetime in each. These parts may need to be replaced after a long usage time, even if one year has not passed since the beginning of using. For more details, please consult your dealer.

NOTE

Avoid strong rays.

Any strong ray (such as direct rays of the sun or room lighting) onto the remote control sensors could invalidate the remote control.

Avoid radio interference.

Any interfering radiation could cause disordered image or noises.

• Avoid radio generator such as a mobile telephone, transceiver, etc. around the projector.

About displaying characteristic.

The display condition of the projector (such as color, contrast, etc.) depends on characteristic of the screen, because the projector uses a liquid crystal display panel. The display condition can differ from the display of CRT.

• Do not use a polarized screen. It can cause red image.

Turn the power on/off in right order.

To prevent any trouble, turn on/off the projector in right order mentioned below unless specifying.

- Power on the projector before the computer or video tape recorder.
- Power off the projector after the computer or video tape recorder.

Take care not to fatigue your eyes.

Rest the eyes periodically.

Set the sound volume at a suitable level to avoid bothering other people.

• It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

Connecting with notebook computer

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.

Lamp

WARNING





HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

The projector uses a high-pressure mercury glass lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury to escape from the projector's vent holes.

About disposal of a lamp • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws.

For lamp recycling, go to www.lamprecycle.org. (in USA)

For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.

• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.



Disconnect the plug from the power outlet

- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.
- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
- Use the lamp of the specified type only.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.



- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the indicators or a message prompts you to replace the lamp (see the section "Related Messages" and "Regarding the indicator Lamps"), replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.

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 the dealer 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. Some cables have to be used with the core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.

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.

Warranty And After-Service

Unless seen any abnormal operations (mentioned with the first paragraph of WARNING in this manual), when a problem occurs with the equipment, first refer to the "Troubleshooting" section of the "User's manual – Operating Guide", and run through the suggested checks.

If this does not resolve the problem contact your dealer or service company. They will tell you what warranty condition is applied.

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DUKANE Projector 8055 User's Manual - Operating Guide

TECHNICAL

In this section, the technical information about this projector is described.

MARNING Before using, read the "User's Manual - Safety Guide" and these manuals to ensure correct usage through understanding. After reading, store them 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.
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TECHNICAL

Signal Connectors



Port	Specification					
 RGB IN RGB OUT 	H/V. Com	Video signal: RGB separate, Analog, 0.7 Vp-p, 75 Ω terminator (positive) H/V. sync. signal:TTL level (positive/negative) Composite sync. signal: TTL level D-sub 15-pin shrink jack				
000000	No.	Signal	No.	Signal	No.	Signal
67890	1	Video input Red	7	Ground Green	12	RGB IN: SDA(DAC)
(12345)	2	Video input Green	8	Ground Blue	7 "2	RGB OUT: -
	3	Video input Blue	9	Ground	13	H. sync./Composite sync.
	4	-	10	-	14	Vertical sync
	5	Ground	11	-	15	RGB IN:SCL (DDC)
	6	Ground Red	12	SDA (DDC)	- 15	RGB OUT: -
AUDIO IN (interlocked) port)	200 n	nVrms, 50 kΩ (max. 3.0	Vp-p),	Stereo mini jack		
AUDIO OUT	0~20	0 mVrms, 1 kΩ (Stereo	mini ja	ck)		
CONTROL	D-su	b 9-pin plug				
	No.	Signal	No.	Signal	No.	Signal
9876	1	-	4	-	7	RTS
54321	2	RD	5	Ground	8	CTS
	3	TD	6	•	9	-
VIDEO	1.0 Vp-p, 75 Ω terminator, RCA jack					
AUDIO ⑤ L, ⑥ R (interlocked ④ / ⑦ ⑧ ⑨ / ⑭)	200 n	200 mVrms, 50 kΩ or more (max. 3.0 Vp-p), RCA jack				
COMPONENT VIDEO	Vaia	nal: 1 0 Vp p 75 0 torm	inator			
🔊 Ү, 😮 Св/Рв,		nal: 1.0 Vp-p, 75 Ω term 3 signal: 0.7 Vp-p, 75 Ω		ator		
CR/PR		R signal: 0.7 Vp-p, 75 Ω				
	Mini I	Din 4-pin jack		· · · · · · · · · · · · · · · · · · ·		
S-VIDEO	No.			Signal		
(4) 3	-	Color signal: 0.286 Vp	-p (NT		nator	
	Color signal: 0.300 Vp-p (PAL/SECAM, burst), 75 Ω terminator					
	2	Brightness signal: 1.0	Vp-p, 7	'5 Ω terminator		
2 1	3 Ground					
	4	Ground				
USB		jack (B type)		Oissal		
2, <u> </u>	No.	. 51/		Signal		
X	1	+ 5V - DATA				
	3	+ DATA				
314	4	Ground				-
	-					

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Example Of Computer Signal

Resolution H × V	fH (kHz)	fV (Hz)	Rating	Signal mode	Display mode
720 × 400	37.9	85.0	VESA	TEXT	Zoom in
640 × 480	31.5	59.9	VESA	VGA (60Hz)	Zoom in
640 × 480	35.0	66.7		Mac13"mode	Zoom in
640 × 480	37.9	72.8	VESA	VGA (72Hz)	Zoom in
640 × 480	37.5	75.0	VESA	VGA (75Hz)	Zoom in
640 × 480	43.3	85.0	VESA	VGA (85Hz)	Zoom in
800 × 600	35.2	56.3	VESA	SVGA (56Hz)	
800 × 600	37.9	60.3	VESA	SVGA (60Hz)	
800 × 600	48.1	72.2	VESA	SVGA (72Hz)	
800 × 600	46.9	75.0	VESA	SVGA (75Hz)	
800 × 600	53.7	85.1	VESA	SVGA (85Hz)	
832 × 624	49.7	74.5		Mac16"mode	Zoom out
1024 × 768	48.4	60.0	VESA	XGA (60Hz)	Zoom out
1024 × 768	56.5	70.1	VESA	XGA (70Hz)	Zoom out
1024 × 768	60.0	75.0	VESA	XGA (75Hz)	Zoom out
1024 × 768	68.7	85.0	VESA	XGA (85Hz)	Zoom out
1152 × 864	67.5	75.0	VESA	SXGA (75Hz)	Zoom out
1280 × 960	60.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	64.0	60.0	VESA	SXGA (60Hz)	Zoom out
1280 × 1024	80.0	75.0	VESA	SXGA (75Hz)	Zoom out
1280 × 1024	91.2	85.0	VESA	SXGA (85Hz)	Zoom out
1600 × 1200	75.0	60.0	VESA	UXGA (60Hz)	Zoom out

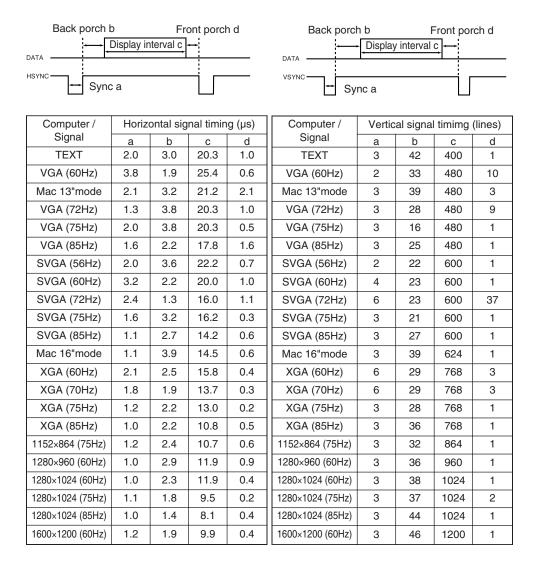
NOTE • Some computers may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

- Be sure to check jack 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.
- Although the projector can display signals with resolution up to UXGA (1,600 x 1,200), the signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.
- The image may not be displayed correctly when the input sync. signal is "Composite Sync." or "Sync. on G".
- Automatically adjustment may not function correctly with some input signals.
- When the image resolution is changed on a computer, depending on an input, automatic adjust function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or TFT monitors to change the resolution.

Initial Set Signals

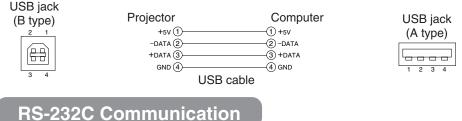
The following signals are used for the initial settings.

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.



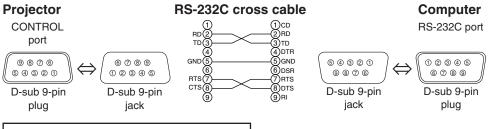
Connection To The Mouse Control

USB Mouse



Connecting The Cable

- (1) Turn off the projector and the computer power supplies.
- (2) Connect the CONTROL port of the projector with a RS-232C port of the computer by a RS-232C cable. Use the cable that fulfills the specification shown in the following figure.
- (3) 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
Act	ion	Ту	Туре		g 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 the projector cannot understand the received command

When the projector cannot understand the received command, the error code '15H' is sent back to the computer.

Sometimes the projector cannot properly receive the command. In such a case, the command is not executed and the error code '15H' is sent back to the computer. If this error code is returned, send the same command again.

When the projector cannot execute the received command.

When the projector cannot execute the received command, the error code '1cH' + 'xxxxH' is sent back to the computer. When the data length is greater than indicated by the data length code, the projector 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 computer.

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.

Command Data Chart

Names	Operation type		Header			-	Command data		
Names						CRC	Action	Туре	Setting code
		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
Keystone Reset		Execute	BE EF	03	06 00	08 D0	06 00	0C 70	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
Brightness Reset		Execute	BE EF	03	06 00	58 D3	06 00	00 70	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
Contrast Reset	Execute		BE EF	03	06 00	A4 D2	06 00	01 70	00 00
	Set	4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		15:9	BE EF	03	06 00	6E D0	01 00	08 20	03 00
Aspect		32:15	BE EF	03	06 00	5E D2	01 00	08 20	04 00
		WIDE	BE EF	03	06 00	CE D3	01 00	08 20	05 00
		ZOOM	BE EF	03	06 00	3E D3	01 00	08 20	06 00
	Get		BE EF	03	06 00	AD D0	02 00	08 20	00 00
	<u> </u>	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
Whisper	Set	WHISPER	BE EF	03	06 00	AB 22	01 00	00 33	01 00
	Get		BE EF	03	06 00	08 23	02 00	00 33	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		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

Command Data Chart (continued)

Nama	Operation type		Header				Command data			
Names			Header			CRC	Action	Туре	Setting code	
		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	
		Italiano	BE EF	03	06 00	37 D1	01 00	05 30	04 00	
		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	
Language	Set	PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00	
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00	
		中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00	
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00	
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00	
		РҮССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00	
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00	
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00	
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00	
		NORMAL	BE EF	03	06 00	C7 F0	01 00	A1 30	00 00	
	Set	CINEMA	BE EF	03	06 00	57 F1	01 00	A1 30	01 00	
Gamma		DYNAMIC	BE EF	03	06 00	A7 F1	01 00	A1 30	02 00	
		CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00	
	Get		BE EF	03	06 00	F4 F0	02 00	A1 30	00 00	
	Get		BE EF	03	06 00	08 F1	02 00	A0 30	00 00	
Custom Gamma	Increment		BE EF	03	06 00	6E F1	04 00	A0 30	00 00	
		Decrement	BE EF	03	06 00	BF F0	05 00	A0 30	00 00	
		USER	BE EF	03	06 00	3B F8	01 00	B0 30	10 00	
		HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00	
Custom	Set	MIDDLE	BE EF	03	06 00	9B F4	01 00	B0 30	02 00	
Color Temp		LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00	
		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00	
		50	BE EF	03	06 00	57 F7	01 00	B1 30	05 00	
		60	BE EF	03	06 00	C7 F6	01 00	B1 30	04 00	
		70	BE EF	03	06 00	F7 F4	01 00	B1 30	03 00	
Custom User R	Set	80	BE EF	03	06 00	67 F5	01 00	B1 30	02 00	
		90	BE EF	03	06 00	97 F5	01 00	B1 30	01 00	
		100	BE EF	03	06 00	07 F4	01 00	B1 30	00 00	
		Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00	
		50	BE EF	03	06 00	13 F7	01 00	B2 30	05 00	
		60	BE EF	03	06 00	83 F6	01 00	B2 30	04 00	
		70	BE EF	03	06 00	B3 F4	01 00	B2 30	03 00	
Custom User G	Set	80	BE EF	03	06 00	23 F5	01 00	B2 30	02 00	
		90	BE EF	03	06 00	D3 F5	01 00	B2 30	01 00	
I		100	BE EF	03	06 00	43 F4	01 00	B2 30	00 00	
		Get	BE EF	03	06 00	43 F4 70 F4	02 00	B2 30	00 00	
		Gei	DEEF	03	00 00	70F4	02 00	D2 30	00 00	

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Namaa	Operation type		Header				Command data			
Names			neader			CRC	Action	Туре	Setting code	
		50	BE EF	03	06 00	EF F6	01 00	B3 30	05 00	
		60	BE EF	03	06 00	7F F7	01 00	B3 30	04 00	
		70	BE EF	03	06 00	4F F5	01 00	B3 30	03 00	
Custom User B	Set	80	BE EF	03	06 00	DF F4	01 00	B3 30	02 00	
		90	BE EF	03	06 00	2F F4	01 00	B3 30	01 00	
		100	BE EF	03	06 00	BF F5	01 00	B3 30	00 00	
		Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00	
		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	
Color Balance R Reset		Execute	BE EF	03	06 00	94 D3	06 00	05 70	00 00	
		Get	BE EF	03	06 00	B5 D7	02 00	12 20	00 00	
Color Balance G		Increment	BE EF	03	06 00	D3 D7	04 00	12 20	00 00	
		Decrement	BE EF	03	06 00	02 D6	05 00	12 20	00 00	
Color Balance G Reset		Execute	BE EF	03	06 00	04 DB	06 00	29 70	00 00	
		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	
Color Balance B Reset	Execute		BE EF	03	06 00	D0 D3	06 00	06 70	00 00	
	Get Increment		BE EF	03	06 00	F1 72	02 00	01 22	00 00	
Sharpness			BE EF	03	06 00	97 72	04 00	01 22	00 00	
	Decrement		BE EF	03	06 00	46 73	05 00	01 22	00 00	
Sharpness Reset		Execute	BE EF	03	06 00	C4 D0	06 00	09 70	00 00	
	Get		BE EF	03	06 00	B5 72	02 00	02 22	00 00	
Color	Increment		BE EF	03	06 00	D3 72	04 00	02 22	00 00	
	Decrement		BE EF	03	06 00	02 73	05 00	02 22	00 00	
Color Reset		Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00	
		Get	BE EF	03	06 00	49 73	02 00	03 22	00 00	
Tint		Increment	BE EF	03	06 00	2F 73	04 00	03 22	00 00	
	Decrement		BE EF	03	06 00	FE 72	05 00	03 22	00 00	
Tint Reset		Execute	BE EF	03	06 00	7C D1	06 00	0B 70	00 00	
		1	BE EF	03	06 00	0E D7	01 00	14 20	00 00	
My Memory Load	Set	2	BE EF	03	06 00	9E D6	01 00	14 20	00 01	
, Montory Load	Jei	3	BE EF	03	06 00	6E D6	01 00	14 20	02 00	
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00	
		1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00	
My Memory Save	Set	2	BE EF	03	06 00	62 D7	01 00	15 20	01 00	
- *		3	BEEF	03	06 00	92 D7	01 00	15 20	02 00	
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00	

Names	0	peration type	Header					Comma	nd data
Numes		peration type		icauci		CRC	Action	Туре	Setting code
	Get		BE EF	03	06 00	0D 83	02 00	00 21	00 00
V Position		Increment	BE EF	03	06 00	6B 83	04 00	00 21	00 00
		Decrement	BE EF	03	06 00	BA 82	05 00	00 21	00 00
V Position Reset		Execute	BE EF	03	06 00	E0 D2	06 00	02 70	00 00
		Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00
H Position		Increment	BE EF	03	06 00	97 82	04 00	01 21	00 00
		Decrement	BE EF	03	06 00	46 83	05 00	01 21	00 00
H Position Reset		Execute	BE EF	03	06 00	1C D3	06 00	03 70	00 00
		Get	BE EF	03	06 00	49 83	02 00	03 21	00 00
H Phase		Increment	BE EF	03	06 00	2F 83	04 00	03 21	00 00
		Decrement	BE EF	03	06 00	FE 82	05 00	03 21	00 00
		Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00
H Size		Increment	BE EF	03	06 00	D3 82	04 00	02 21	00 00
		Decrement	BE EF	03	06 00	02 83	05 00	02 21	00 00
H Size Reset		Execute	BE EF	03	06 00	68 D2	06 00	04 70	00 00
	Get		BE EF	03	06 00	91 70	02 00	09 22	00 00
Over Scan		Increment	BE EF	03	06 00	F7 70	04 00	09 22	00 00
		Decrement	BE EF	03	06 00	26 71	05 00	09 22	00 00
Over Scan Reset		Execute	BE EF	03	06 00	EC D9	06 00	27 70	00 00
	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
Color Space		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
Color Space		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
		Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00
	Set	COMPONENT	BE EF	03	06 00	4A D7	01 00	17 20	00 00
Component	Set	SCART RGB	BE EF	03	06 00	DA D6	01 00	17 20	01 00
		Get	BE EF	03	06 00	79 D7	02 00	17 20	00 00
		AUTO	BE EF	03	06 00	9E 75	01 00	00 22	0A 00
		NTSC	BE EF	03	06 00	FE 71	01 00	00 22	04 00
		PAL	BE EF	03	06 00	6E 70	01 00	00 22	05 00
Video Format	Set	SECAM	BE EF	03	06 00	6E 75	01 00	00 22	09 00
VIGEO FOIMAL		NTSC 4.43	BE EF	03	06 00	5E 72	01 00	00 22	02 00
		M-PAL	BE EF	03	06 00	FE 74	01 00	00 22	08 00
		N-PAL	BE EF	03	06 00	0E 71	01 00	00 22	07 00
		Get	BE EF	03	06 00	0D 73	02 00	00 22	00 00
	Set	TURN OFF	BE EF	03	06 00	CB D6	01 00	14 30	00 00
Frame Lock	Set	TURN ON	BE EF	03	06 00	5B D7	01 00	14 30	01 00
		Get	BE EF	03	06 00	F8 D6	02 00	14 30	00 00
		TURN OFF	BE EF	03	06 00	E6 70	01 00	0A 22	00 00
	Set	NORMAL	BE EF	03	06 00	76 71	01 00	0A 22	01 00
3D-YCS		STILL IMAGE	BE EF	03	06 00	86 71	01 00	0A 22	02 00
		Get	BE EF	03	06 00	D5 70	02 00	0A 22	00 00

Names	0	peration type Header				Command data			
Numes		peration type	rioddor			CRC	Action	Туре	Setting code
		LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
Video NR	Set	MIDDLE	BE EF	03	06 00	D6 72	01 00	06 22	02 00
VIDEO INR		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
		Get	BE EF	03	06 00	85 73	02 00	06 22	00 00
		Turn off	BE EF	03	06 00	4A 72	01 00	07 22	00 00
Brogradius	Set	TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
Progressive		Film	BE EF	03	06 00	2A 73	01 00	07 22	02 00
		Get	BE EF	03	06 00	79 72	02 00	07 22	00 00
	Set	TURN OFF	BE EF	03	06 00	1A 71	01 00	0B 22	00 00
S2-Aspect	Set	TURN ON	BE EF	03	06 00	8A 70	01 00	0B 22	01 00
		Get	BE EF	03	06 00	29 71	01 00	0B 22	00 00
Auto Adjust		Execute	BE EF	03	06 00	91 D0	06 00	0A 20	00 00
		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00
Auto off	Increment		BE EF	03	06 00	6E 86	04 00	10 31	00 00
		Decrement	BE EF	03	06 00	BF 87	05 00	10 31	00 00
	Set	TURN OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
Auto Search		TURN ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
	Get		BE EF	03	06 00	85 D6	02 00	16 20	00 00
		Blue	BE EF	03	06 00	CB D3	01 00	00 30	03 00
Blank Color	Set	White	BE EF	03	06 00	6B D0	01 00	00 30	05 00
DIATIK COIOI		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
	Set	TURN OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00
Blank on/off		TURN ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00
		Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00
	Set	TURN ON	BE EF	03	06 00	0B D2	01 00	04 30	00 00
Startup	Sei	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
		Get	BE EF	03	06 00	40 D7	02 00	16 30	00 00
Menu Position V		Increment	BE EF	03	06 00	26 D7	04 00	16 30	00 00
		Decrement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00
Menu Position V Reset		Execute	BE EF	03	06 00	A8 C7	06 00	44 70	00 00
		Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00
Menu Position H		Increment	BE EF	03	06 00	62 D7	04 00	15 30	00 00
		Decrement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00
Menu Position H Reset		Execute	BE EF	03	06 00	DC C6	06 00	43 70	00 00
	Set	TURN OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
Message		TURN ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00
		Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00

Newser	_		Header				Command data			
Names	Operation type		Header			CRC	Action	Туре	Setting code	
	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	
		TURN ON	BE EF	03	06 00	46 D3	01 00	02 20	00 00	
MUTE	Set	TURN OFF	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	
		4:3	BE EF	03	06 00	7A D6	01 00	01 00	00 00	
		16:9- Top	BE EF	03	06 00	EA D7	01 00	13 20	01 00	
Screen type	Set	16:9- Center	BE EF	03	06 00	1A D7	01 00	01 00	02 00	
		16:9- Bottom	BE EF	03	06 00	8A D6	01 00	13 20	03 00	
		Get	BE EF	03	06 00	49 D6	02 00	01 00	00 00	
Lamp Time		Get	BE EF	03	06 00	C2 FF	02 00	90 10	00 00	
Lamp Time Reset		Execute	BE EF	03	06 00	58 DC	06 00	30 70	00 00	
Filter Time		Get	BE EF	03	06 00	C2 F0	02 00	A0 10	00 00	
Filter Time Reset	Execute		BE EF	03	06 00	98 C6	06 00	40 70	00 00	
	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	
	Set	Normal	BE EF	03	06 00	83 D2	01 00	02 30	00 00	
Freeze		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	
	Set	TURN OFF	BE EF	03	06 00	2A D3	01 00	00 60	00 00	
		TURN ON	BE EF	03	06 00	BA D2	01 00	00 60	01 00	
			BE EF	03	06 00	19 D3	02 00	00 60	00 00	
Power	Get		(Example I 00 00 (Off)	Return)	01 00 (On)		02 00 pol down)			
		RGB	BE EF	03	06 00	FE D2	01 00	00 20	00 00	
	Set	Video	BE EF	03	06 00	6E D3	01 00	00 20	01 00	
Input Source	Sei	S-Video	BE EF	03	06 00	9E D3	01 00	00 20	02 00	
		Component	BE EF	03	06 00	AE D1	01 00	00 20	05 00	
		Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00	
			BE EF	03	06 00	D9 D8	02 00	20 60	00 00	
Error Status	Get		(Example of Return) 00 00 01 00 02 00 03 00 (Normal) (Cover-error) (Fan-error) (Lamp-error) 04 00 05 00 06 00 07 00 08 00 09 00 (Temp-error) (Air flow- error) Time-over) (Filter-Error) (Filter- Missing)							

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This Dukane projector is warranted to the original purchaser for a period of five (5) years from the original purchase date – in normal operating conditions – against defects in material and workmanship. DUKANE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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 - Repair or attempted repair by anyone other than a Dukane Corporation authorized service center.
 - Any shipment of product (claims must be presented to the carrier).
 - Removal or installation of the product.
 - Any other causes which do not relate to a product defect.
 - Use of the product beyond normal operating conditions. Normal operating conditions are defined as product use not in excess of 8 hours per day and 260 days per year.
- 4. Cartons, carry cases, shipping cases, batteries, or any accessories used in connection with the product.
- 5. Service required as a result of third party components.
- 6. Product used as commercial rental units

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- 2. Cost of technical adjustment, set-up, maintenance, or adjustment of user controls.
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Audio Visual Products

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