



DLP PROJECTOR

Owner's Instructions SP-H700/H500

BP68-00340C-01

6

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Table of Contents

4

....8

...10

..11

....12

Preparation

Features and Design..... Caution on Lamp Use and Replacement5 **Projector and Accessories** Front/Upper Side and Accessories Rear Side and Cables Remote Control Buttons Operating the Remote Control.....

Preparation

Table of Contents

Installation and Basic Adjustments

Installation/Turning On	14
Zooming and Focus Adjustment	16
Leveling with Adjustable Feet	17
Using the Lens Shift Dial	18
Screen Size and Projection Distance	19

Connections and Source Setup

Before Connections	22
Connecting to Video Equipment	
Connecting to VCR/Camcorder/Cable Box	23
Connecting to DVD	24
Connecting to the Digital TV Receiver	25
Setting up the External Input Source	26
Naming the External Connections	27

Picture Adjustment

Selecting Picture Mode Custom Settings of the Picture Changing the Color Standard Selecting and Adjusting Color Temperature Gamma Correction Saving Custom Picture Settings Setting up DNIe Selecting Picture Size	20
Changing the Color Standard Selecting and Adjusting Color Temperature Gamma Correction Saving Custom Picture Settings Setting up DNIe Selecting Picture Size	
Selecting and Adjusting Color Temperature Gamma Correction Saving Custom Picture Settings Setting up DNIe Selecting Picture Size	31
Gamma Correction Saving Custom Picture Settings Setting up DNIe Selecting Picture Size	32
Saving Custom Picture Settings Setting up DNIe Selecting Picture Size	33
Setting up DNle Selecting Picture Size	34
Selecting Picture Size	35
	36
	37
Screen Position Adjustment	39
Film Mode	40
Overscan	41
Still Picture	42

Setup

Flipping/Reversing the Projected Image	44
Light Setting	45
Correcting Vertical Keystone	46
Test Patterns	47
Restoring the Factory Default Settings	48
Information	

Menu Option

Setting the Language	52
Setting the Menu Position	53
Setting the Menu Translucency	54
Setting the Menu Display Time	55
Selecting Quick Menu	56

Connecting to PC

Before Connecting to PC	58
Setting up the PC Environment	59
Connecting to PC	60
Automatic Picture Adjustment	62
Frequency Adjustment	63
Fine Tuning with the Phase Adjustment	64
Zooming the Screen	65
Reset the PC	66

Troubleshooting

Before Contacting Service Personnel...... ..6872

.....73

.....74

.....77

.....78

Other Information

Storage and Maintenance

Purchasing Accessories

Structure of Screen Menu

Lamp Replacement

Specifications

Features and Design

Features and Design

Optical engine adopting advanced DLP technolog

- SP-H700: DLP[™] HD2+ DMD panel capable of 1280x720 resolution
- SP-H500: DLP[™] ED2 DMD panel capable of 1024x576 resolution
- 5X-speed color wheel designed to reduce digital artifacts
- 250W Lamp designed to improve luminance

Vivid colors

 Quality picture tuning focused on improving color - this unit aims at realizing color coordinates that meet broadcasting standards on video production.

Minimized fan noise and light leakage

• The airflow and fan installation structure are optimized to minimize fan noise and beam leakage.

Various Input Ports

 Five types of input ports including a DVI-D (compatible with HDCP) port, two Component ports improve connection to external peripherals.

User adjustments

- This unit allows adjustment of each input port.
- The unit has a reference pattern that can be used for positioning and adjustment.
- The remote control is backlit to improve usability in a dark environment.

Caution on Lamp Use and Replacement

Projector Lamp

- The Projector lamp changes in nature depending on time of use and using environment. Refer to the installation and other recommended operational sections of the user's manual to avoid rapid degradation of performance and deterioration of picture quality. The projector lamp requires regular replacement.
- Free servicing will be offered within 90 days after purchasing of the product and within 300 hours of product use, if the problem is due to a defective lamp.
- You can check the lamp use time by pressing the INFO button on the remote control.

Caution on Lamp Replacement

- Unplug the power cord before replacing the lamp.
- Inside of the projector is very hot. Cool off the projector for at least an hour after turning off.
- Contact your dealer to purchase a lamp for replacement. (Ultra violets from the lamp can damage your eyes.)
- Turn off the power of the lamp before replacement or repair.
 (Due to the high-pressure of the lamp, it is possible to explode.)
- When the lamp is broken, be careful not to be hurt by glass pieces. Refer to the manual for proper handling.

Caution on Lamp Use

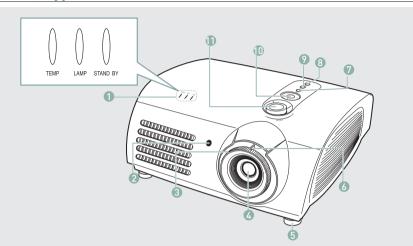
- This projector produces intense light. Do not stare light source directly.
- Do not touch the exhaust vent during operation. It can be very hot.
- Do not expose the unit to rain or moisture.

VISUAL REALISM

Preparation

Front/Upper Side and Accessories

Front/Upper Side



7 MENU

8 POWER

9 SOURCE

sources.

cursor.

11 LENS SHIFT Dial

10 Select and Move Button

within the lens range.

Used to open the on-screen Menu.

Used to turn the projector on or off.

Used to select input signals from the external

Used to select an menu item, and to move the

You can adjust screen images up and down

- Indicators - TEMP (Red LED) - LAMP (Blue LED) - STAND BY (Blue LED) Refer to page 9 for details.
- 2 Remote Control Signal Receiver
- **3 Focus Ring** Used for Focus Adjustment.
- 4 Lens
- 5 Adjustable Feet You can adjust the screen position by moving up and down the adjustable feet.
- **5 Zoom Knob** Used to enlarge or reduce image size.

Accessories

Remote Control/ 2 Batteries Power Cable





Owner's Instructions

Indi	cator In	formation	
• : Tu	rned On	● : Flasl	hing \bigcirc : Turned Off
TEMP	LAMP	STANDBY	Information
0	0	•	If you press the POWER button on the remote control or projector, the screen appears within 30 seconds.
0			The projector is in normal operating condition.
0		•	The projector is warming up after POWER button has been pressed.
0	O	0	The POWER button is pressed to turn off the projector, and the cooling system is in operation to cool off inside of the projector. (Lasts for about 1 minute and 30 seconds)
O	0	O	Refer to measure 1 below if the cooling fan inside the projector is not in normal operation condition.
0	•	0	Refer to measure 2 below if the lamp cover protecting the lamp unit is not closed properly.
0	0	0	Power is turned off automatically when temperature inside of the projector goes beyond the control limit. Refer to measure 3.
O	•	•	Refer to measure 4 below if the life span of the lamp is running out or a problem with the lamp is detected.

Clearing Indicator Problems

Classification	State	Measures
Measure 1	When the cooling fan system is not in normal operating condition.	Unplug and plug the cord and restart the projector. If the problem does not disappear, contact a dealer or service personnel near you.
Measure 2	When the lamp cover protecting the lamp unit is not properly closed or the sensor system is not in normal operating condition.	Check the screw on the bottom side of the projector. If you do not find any problem, contact a dealer or service personnel near you.
Measure 3	When temperature inside of the projector becomes too high.	Adjust the position of the projector following the installation instructions of this manual and cool off the projector before restarting it. If the problem does not disappear, contact a dealer or service personnel near you.
Measure 4	The lamp is malfunctioning after abnormal power off or restarting right after turning off the projector.	Power off the projector and cool it off for some time before restarting it.
	When brightness of the picture screen degrades or image deterioration is found.	Check how long the lamp has been used on Information and contact a dealer or service personnel near you for lamp replacement.

This Projector uses a cooling fan system to keep the unit from overheating.

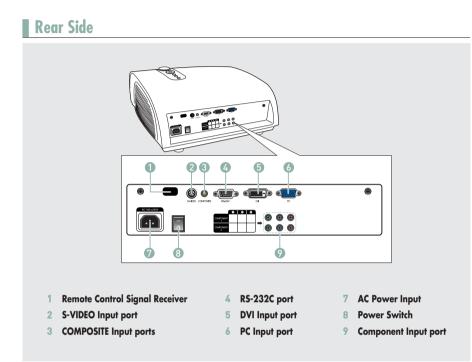
NOTE Operation of the cooling fan may cause noise, which does not affect the product performance.

No exchange or refund for the noise concern.

Preparation

Projector and Accessories

PROJECTOR AND ACCESSORIES Rear Side and Cables



Cables

Power Cord Connected to the wall outlet **7**. Video (COMPOSITE) CableS-Video CableConnected to the
connection port ③.Connected to the
connection port ③.

Component Cable Connected to the connection port (9).



PC Video Cable Connected to the connection port **6**.

Connected to the connection port **5**.

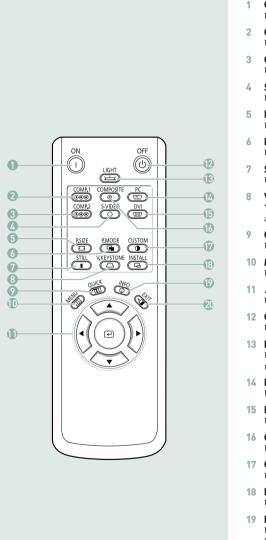
DVI-D Cable







PROJECTOR AND ACCESSORIES Remote Control Buttons



- **ON** Used to turn on the projector.
- 2 **COMP.1** (Pages 24~26) Used to switch to COMPONENT 1 Mode.
- **COMP.2** (Pages 24~26) Used to switch to COMPONENT 2 Mode.
- 4 S-VIDEO (Pages 23, 26) Used to switch to S-VIDEO Mode.
 - **P.SIZE** (Page 37) Used to adjust the size of picture screen.
- **P.MODE** (Page 30) Used to select Picture Mode.
- **STILL** (Page 42) Used to see still images.
- **V.KEYSTONE** (Page 46) You can use this function for trapezoidal adjustment of the image.
- **QUICK** (Page 56) Used to quickly select the previous menu.
- **10 MENU** Used to display Menu Screen.
- 11 ▲▼◀► (Move) / ⓓ (Select) Used to move to or select each menu item.
- **12 OFF** Used to turn off the projector.
- **13 LIGHT** (Page 13) Used to operate remote control in dark room.
- **14 PC** (Pages 25, 60~66) Used to switch to PC Mode.
- **15 DVI** (Page 25, 60) Used to switch to DVI Mode.
- **16 COMPOSITE** (Pages 23, 26) Used to switch to COMPOSITE Mode.
- **17 CUSTOM** (Page 31) Used to select Picture User Adjust Mode.
- **18 INSTALL** (Page 44) Used to flip or reverse the projected image.
- 19 INFO (Page 49) Used to check source signals, picture setup, PC screen adjustment and lamp lifespan.
- **20 EXIT** Used to make Menu Screen disappear.

11

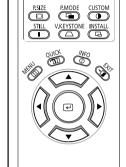
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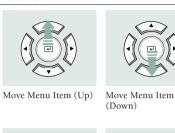
Projector and Accessories

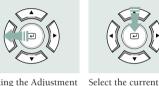
PROJECTOR AND ACCESSORIES Operating the Remote Control

Operating Move/Select Button









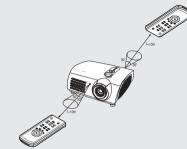
setting

Setting the Adjustment (left), or move to upper item

Allowable range & angle of receiving the remote control signal

The remote control is effective within a 30° angle 23~33 ft (7~10m) from the projector.

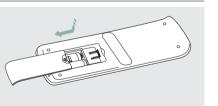
- Keep used batteries away from children and dispose of them properly. CAUTION
 - Do not use new and used batteries together. Replace two batteries at the same time.
 - Remove batteries when the projector is not used for long periods of time.



Preparatio

Inserting Batteries into Remote Control

- **1.** Press on the $\overline{\mathbf{v}}$ part of the lid to remove it.
- 2. Insert two AAA-sized 1.5V batteries by matching +/-.
- **3.** Close the lid.



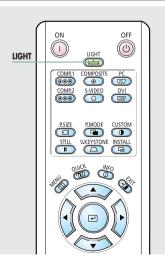
Setting the Adjustment

(right), or move to

lower item.

Using Remote Control in Dark Place (LIGHT)

Press the LIGHT button of the remote controller for five seconds. The remote control buttons are lit for about 5 seconds and turn off automatically.



Projector and Accessories

Installation and basic adjustments Installation and Turning On

To Install the Projector

Install the projector so that the projection is perpendicular to the screen.

Installation and Basic Adjustments

- Center the lens to the screen. If the projector is not positioned perpendicular to the screen, the image may appear trapezoidal.
 - Do not install the screen in a bright place as it makes it harder to see the screen.
 - Darken the room when installing the projector in a bright place.

Installing Projector on Backside of Screen

Install a translucent screen to place the projector on the backside of the screen. The Translucent will show the horizontally flipped image. Rotate the image (projected from the projector) horizontally. (Page 44)

111

Installing Projector in Front of the Screen

Install the projector at the viewers' side.



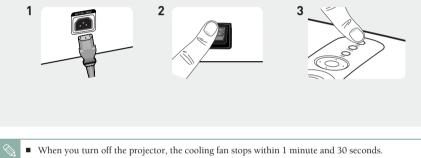
 The projector may be installed on the ceiling in front / back side of the screen.

When installing the projector on the ceiling, contact your dealer.



Turning On Projector

- **1.** Plug the power cord into the power terminal on the rear side of the projector.
- **2.** Press and push the power switch on the rear side of the projector toward "—".
- 3. Press the POWER button of the projector or the ON button of the remote control.
- **4.** Screen display comes up in 30 seconds.

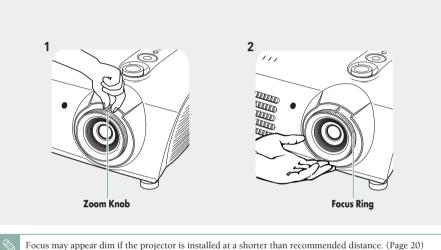


• When the cooling fan stops, push the power switch toward "O" and unplug the power cord.

Zoom and Focus Adjustments

Using the Zoom Knob and the Focus Ring

- **1.** You can adjust the size of image within zoom range by manipulating the Zoom Knob.
- 2. Focus the picture on the screen using the Focus Ring.



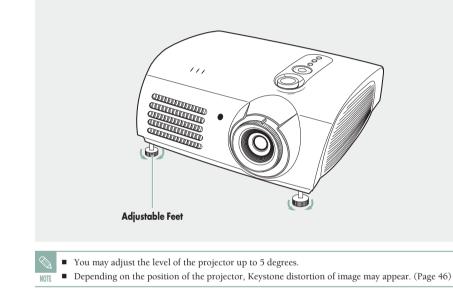
Preparation

Installation and Basic Adjustments

INSTALLATION AND BASIC ADJUSTMENTS Leveling with Adjustable Feet

Using Adjustable Feet

For level placing of the projector, adjust the Adjustable Feet of the projector.



INSTALLATION AND BASIC ADJUSTMENTS Using the Lens Shift Dial

Using the Lens Shift Dial

Move the picture projected on the screen up and down within the lens range by turning the Lens Shift Dial on the top side of the projector with your fingers.

Lens Shift Dial 11.



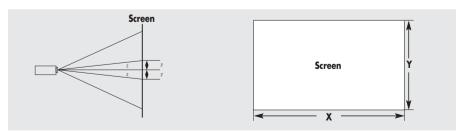
INSTALLATION AND BASIC ADJUSTMENTS Screen Size and Projection Distance Check the following before reading this manual.

Install the projector on a flat, even surface and level the projector using the adjustable feet to realize optimal picture quality. If images are not clear, adjust them using the Zoom Knob or Focus Ring, or move the projector forward and backward.

SP-H700

Diagonal Image Size (inch)	Screen Size (16:9)		Throw Distance (Z)		Distance from Lens Center
	Horizontal (X:cm/inch)	Vertical (Y:cm/inch)	Min (m/ft)	Max (m/ft)	to Image Bottom (Z':cm/inch)
300	666.3/262.3	374.6/147.2	10.5/34.0	13.6/44.8	31.2/12.3
250	555.3/218.6	312.2/122.9	8.6/28.3	11.4/37.3	26.0/10.2
200	444.2/174.9	249.7/98.3	6.9/22.7	9.1/29.8	20.8/8.2
190	422.0/166.1	237.2/93.4	6.6/21.5	8.6/28.4	19.8/7.8
180	399.8/157.4	224.7/88.5	6.2/20.4	8.2/26.9	18.7/7.4
170	377.6/148.7	212.3/83.6	5.9/19.3	7.7/25.4	17.7/7.0
160	355.4/139.9	199.8/78.7	5.5/18.1	7.3/23.9	16.6/6.5
150	333.2/131.2	187.3/73.7	5.2/17.0	6.8/22.4	15.6/6.1
140	311.0/122.4	174.8/68.8	4.8/15.9	6.4/20.9	14.6/5.7
130	288.7/113.7	162.3/63.9	4.5/14.7	5.9/19.4	13.5/5.3
120	266.5/104.9	149.8/59.0	4.1/13.6	5.5/17.9	12.5/4.9
110	244.3/96.2	137.3/54.1	3.8/12.5	5.0/16.4	11.4/4.5
100	222.1/87.4	124.9/49.2	3.5/11.3	4.5/14.9	10.4/4.1
90	199.9/78.7	112.4/44.3	3.1/10.2	4.1/13.4	9.4/3.7
80	177.7/70.0	99.9/39.3	2.8/9.1	3.6/11.9	8.3/3.3
70	155.5/61.2	87.4/34.4	2.4/7.9	3.2/10.4	7.3/2.9
60	133.3/52.5	74.9/29.5	2.1/6.8	2.7/9.0	6.2/2.4
50	111.143.7	62.4/24.6	1.7/5.7	2.3/7.5	5.2/2.0
43	95.5/37.6	53.7/21.1	1.5/4.9	1.9/6.4	4.5/1.8
40	88.8/35.0	49.9/19.6	1.4/4.5	1.8/6.0	4.2/1.7
33	73.3/28.9	41.2/16.2	1.1/3.7	1.5/4.9	3.4/1.3
30.385	67.5/26.6	37.9/14.9	1.0/3.4	1.4/4.5	3.2/1.3

This projector is designed to show images optimally on a 80 to 150 inch sized screen. NOTE



Z : Throw Distance

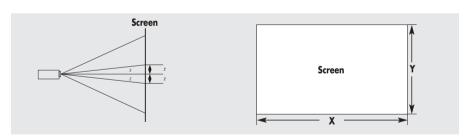
■ Z' : Distance from Lens Center to Image Bottom

INSTALLATION AND BASIC ADJUSTMENTS Screen Size and Projection Distance

SP-H500

Diagonal Image Size (inch)	Screen Size (16:9)		Throw Distance (Z)		Distance from Lens Center
	Horizontal (X:cm/inch)	Vertical (Y:cm/inch)	Min (m/ft)	Max (m/ft)	to Image Bottom (Z':cm/inch)
200	442.8/174.3	249.1/98.1	6.8/22.4	8.8/28.5	24.9/9.8
190	420.6/165.6	236.6/93.1	6.5/21.3	8.3/27.1	23.7/9.3
180	398.5/156.9	224.1/88.3	6.1/20.1	7.8/25.7	22.4/8.8
170	376.3/148.1	211.7/83.3	5.8/19.0	7.4/24.2	21.2/8.3
160	354.2/139.5	199.2/78.4	5.5/17.9	7.0/22.8	19.9/7.8
150	332.1/130.7	186.8/73.5	5.1/16.8	6.5/21.4	18.7/7.4
140	309.9/122.0	174.3/68.7	4.8/15.6	6.1/19.9	17.4/6.9
130	287.8/113.3	161.9/63.7	4.4/14.5	5.6/18.5	16.2/6.4
120	265.7/104.6	149.4/58.8	4.1/13.4	5.2/17.1	14.9/5.9
110	243.5/95.9	137.0/53.9	3.7/12.3	4.8/15.6	13.7/5.4
100	221.3/87.1	124.5/49.0	3.4/11.1	4.3/14.2	12.5/4.9
90	199.2/78.4	112.1/44.1	3.0/10.0	3.9/12.8	11.2/4.4
80	177.1/69.7	99.6/39.2	2.7/8.9	3.5/11.3	10.0/3.9
70	155.0/61.0	87.2/34.3	2.4/7.7	3.0/9.9	8.7/3.4
60	132.8/52.3	74.7/29.4	2.0/6.6	2.6/8.5	7.5/2.9
50	110.7/43.6	62.3/24.5	1.7/5.5	2.1/7.0	6.2/2.5
40	88.6/34.9	49.8/19.6	1.3/4.4	1.7/5.6	5.0/2.0

This projector is designed to show images optimally on a 80 to 150 inch sized screen.



Z : Throw Distance

NOTE Z' : Distance from Lens Center to Image Bottom

VISUAL REALISM

Connections and Source Setup

Before Connections	27
Connecting to Video Equipment	23
Setting up the External Input Source	26
Naming the External Connections	27

Before Connections

Check the followings before connecting the projector to other devices.

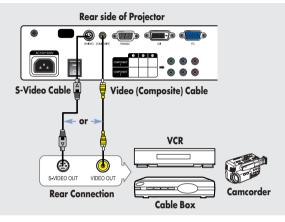
Check the following Before Connecting

- 1. Refer to the manual of the device the projector is connected to. The number and position of ports may differ depending on type of devices.
- 2. Do not connect power until all the connections are completed. If you try to connect power while connecting cables, it may result in damage to the projector.

Refer to "Rear Side and Cables" on page 10 for cables used for connection.

3. Check the type of ports the projector is connected to.

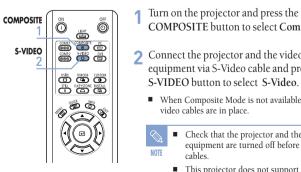
CONNECTING TO VIDEO EQUIPMENT Connecting to VCR/Camcorder/Cable Box



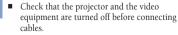
Connect COMPOSITE (yellow) input port of the projector to the VIDEO (yellow) OUT port of video equipment using the video cable.

■ If the video equipment has S-VIDEO OUT port, connect it to S-VIDEO input port of the projector.

Viewing the picture

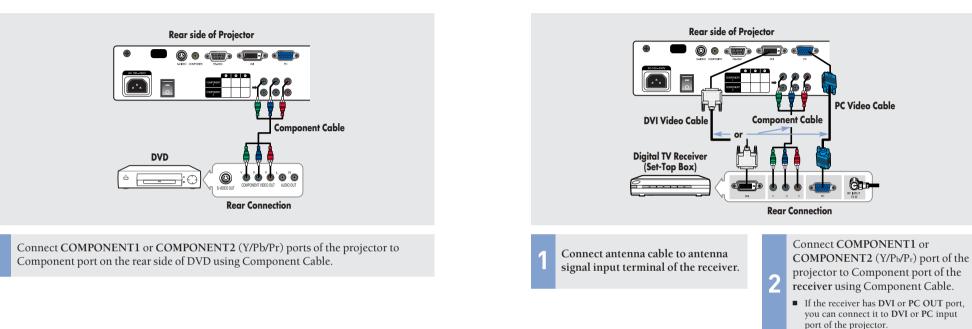


- Composite COMPOSITE button to select Composite.
- **?** Connect the projector and the video equipment via S-Video cable and press the S-VIDEO button to select S-Video.
 - When Composite Mode is not available, check the video cables are in place.



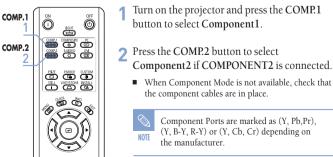
 This projector does not support sound. (Separate audio system is needed for sound.)

Connecting to video equipment Connecting to DVD

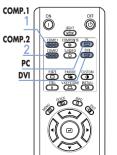


Component1

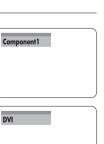
Viewing the picture



Viewing the picture



- 1 Turn on the projector and press the COMP.1 button to select Component1.
- 2 Press the COMP.2 button to select Component2 if COMPONENT2 is connected. If the receiver is connected to DVI or PC port, press the DVI or PC button to select DVI or PC respectively.
 - When Component Mode is not available, check that the component cables are in place.



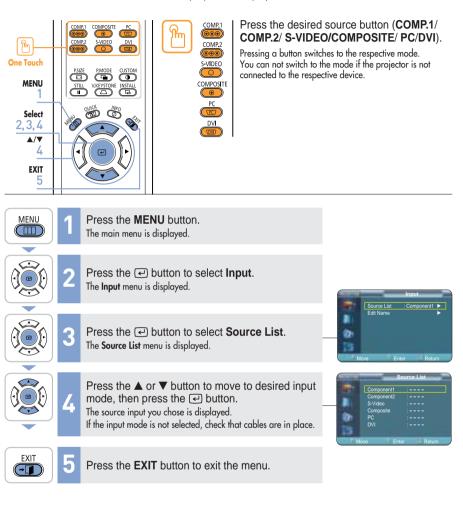
Connections and Source Setup

Connecting to Video Equipment

connecting to video equipment Connecting to the Digital TV Receiver

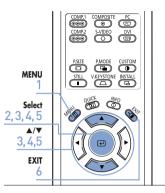
Setting up the External Input Source

You can select a device connected to the projector to display.



Naming the External Connections

You can select and set up the type of device you want to connect to the projector.





1 Press the **MENU** button. The main menu is displayed.



Press the I button to select **Input**. The **Input** menu is displayed.





EXIT

(-)

Press the **EXIT** button to exit the menu.





Connections and Source Setup

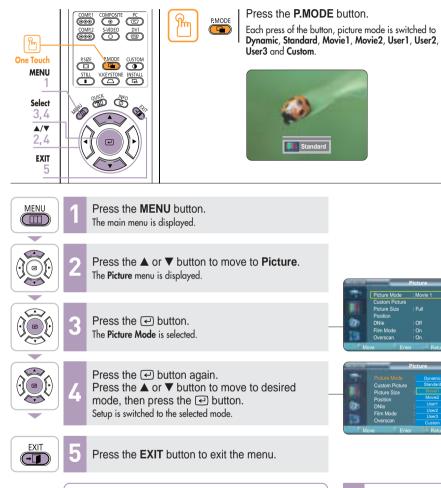
Naming the External Connections

VISUAL REALISM

Picture Adjustment

Selecting Picture Mode	30
Custom Settings of the Picture	3
Changing the Color Standard	32
Selecting and Adjusting Color Temperature	33
Gamma Correction	34
Saving Custom Picture Settings (Save).	35
Setting up DNIe	36
Selecting Picture Size	37
Screen Position Adjustment	39
ilm Mode	4(
Overscan	4
Still Picture	42

Selecting Picture Mode



11000		
Picture Modes	Color Temperature	Gamma
Dynamic	9300K	Gamma Mode3: Graphic Mode
Standard	8000K	Gamma Mode2: Video Mode
Movie1	6500K	Gamma Model: Film Mode
Movie2	5500K	Gamma Moder. Finn Mode

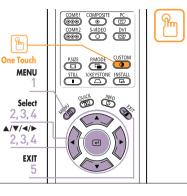
User 1, 2, and 3 Saving Options are designed for setup and storage of various users' customized picture modes.

Custom Settings of the Picture

You can adjust Contrast, Brightness, Sharpness, Color and Tint of the picture as desired.

CUSTOM

 \bigcirc



Press the CUSTOM button.

The Custom Picture menu is displayed. Refer to number 4 below to make adjustments.





Press the **MENU** button. The main menu is displayed.



Press the ▲ or ▼ button to move to **Picture**. The **Picture** menu is displayed. Press the (←) button.



 $\overline{}$

EXIT

Press the ▲ or ▼ button to move to **Custom Picture**, then press the *i* button. The **Custom Picture** menu is displayed.

5 Press the **EXIT** button to exit the menu.

 Custom Picture Menu

 Contrast
 Used to adjust the contrast between the object and the background.

 Brightness
 Used to adjust brightness of the entire picture.

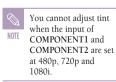
 Sharpness
 Used to adjust the outlines of the object sharper or less sharp.

 Color
 Used to adjust color lighter or deeper.

 Tint
 Used to obtain more natural color of objects using Green or Red enhancement.

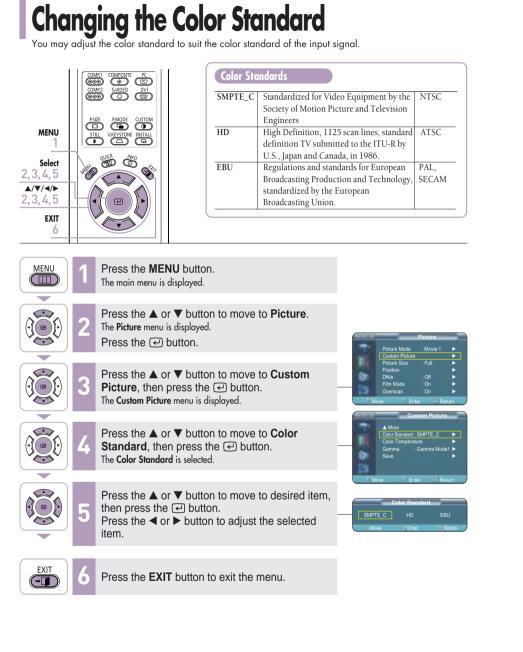






Picture Adjustment

Selecting Picture Mode



Selecting and Adjusting Color Temperature

You can change tint of

ange	e tint of the entire	screen to suit ye	our need	ls.			
COM	P.1 COMPOSITE _PC	ı (Color	Temperature Me	nu		
			5500K	Used to deliver op black-and-white fi the picture mode o	lms. Color te	emperature	
			6500K	This temperature i productions. It is s manufactured, and	s used for the et as Moviel	e most vide when it is	0
AND			8000K		ed to bright j her sales out anced. It is s	places such let. Sharpne uitable for b	as ess and brighter
			9300K		ess and Brigh be effective	itness enhar	nced, this
1	Press the MEI The main menu is						
2	Press the ▲ o The Picture menu i Press the ←	1 /	nove to	Picture.		P Picture Mode Custom Picture	Picture ∶Movie 1
3	Press the A o Picture , then The Custom Pictur		outton.	Custom	Mov	Picture Size Position DNIe Film Mode Overscan	:Full
4	Press the ▲ o Temperature , The Color Temper				1 2 6 5	▲ More Color Standard : SI Color Temperature	
5	Press the <i>e</i> Temperature .	button to selec	ct the C	olor	Mov	e Enter	Return
6	Press the \triangleleft of press the \checkmark h The selected option		select a	an option then	9300K - Move	Color Temper 8000K 65 Enter	rature 500K 5500K Return
7		r ▼ buttons to button. Press t					_



EXIT

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MENU

Select

EXIT 8

MENU

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-

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▲/▼/◀/►

2, 3, 4, 6, 7

2, 3, 4, 5, 6, 7

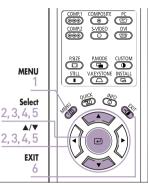
Press press the *e* button. Press the *d* or *b* buttons to adjust the selected item. A separate adjustment window appears for making the adjustment

Changing the Color Standard

R-Gain

Gamma Correction

Gamma is used to improve the picture quality with color balance.





Picture Adjustment

Gamma Correction

Press the MENU button. The main menu is displayed.



Press the \blacktriangle or \checkmark button to move to **Picture**. The Picture menu is displayed. Press the 🖓 button.



Press the ▲ or ▼ button to move to Custom Picture, then press the e button. The Custom Picture menu is displayed.



_

Press the \blacktriangle or \checkmark button to move to Gamma, then press the 🕑 button.



EXIT

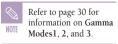
(-)

Press the ▲ or ▼ button to move to desired mode, then press the e button. Setup is switched to the selected mode.



Press the EXIT button to exit the menu.





Saving Custom Picture Settings

Used to save custom picture (Contrast, Brightness, Sharpness, Color, Tint, Color Temperature and **Gamma**) settings.

COMP.1 COMPOSITE PC COMP.2 S-VIDEO DVI COMP.2 S-VIDEO DVI PSIZE PMODE CUSTOM MENU STILL V.KEYSTONE INSTALL OUCK MFO Select Ô 2,3,4,5,6 ▲/▼/◀/► 2, 3, 4, 5, 6 € EXIT



- Press the **MENU** button. The main menu is displayed.



Press the ▲ or ▼ button to move to Picture. The **Picture** menu is displayed. Press the 🖓 button.



Press the ▲ or ▼ button to move to Custom **Picture**, then press the *I* button.

The Custom Picture menu is displayed.



Press the \blacktriangle or \blacktriangledown button to move to **Save**, then press the 🖓 button.



-

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- Press the ▲ or ▼ button to move to desired mode, then press the 🕑 button.
- Press the \triangleleft or \triangleright button to move to **OK**, then press the 🖓 button. Setup is switched to the selected mode.



Press the **EXIT** button to exit the menu.

The User1, User2 and User3 modes are saved differently

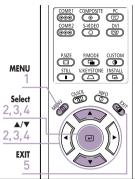
according to external input sources (Component1/ Component2/ NOTE S-Video/Composite/PC/DVI).

rd : SMPTE C

OK

Setting up DNIe

DNIe (Digital Natural Image engine) is an image enhancing function developed by Samsung Electronics. It enables users to enjoy brighter, sharper and more dynamic pictures.





Picture Adjustment

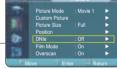
Press the **MENU** button. The main menu is displayed. Press the \blacktriangle or \checkmark button to move to **Picture**. 2 The Picture menu is displayed.



Press the 🖓 button.



Press the \blacktriangle or \checkmark button to move to **DNIe**, then press the 🖓 button.



EXIT

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Press the \blacktriangle or \checkmark button to move to **On**, then press the 🕑 button. Setup is switched to the selected mode.



DNIe Mode

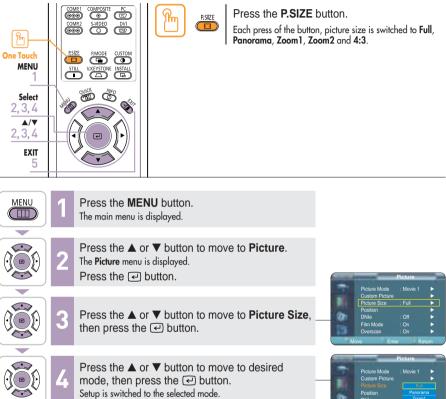
On

Off	DNle Mode Off
Demo	DNle On/Off Picture Comparison Mode

10	Divic On/On Ficture Comparison would
	DNle Mode On

Carlos Carlos	-	Picture	
-	Picture Mode	: Movie 1	
	Custom Picture		
	Picture Size		
	Position		
an -		: 01	
	Film Mode	Dem	D C
	Overscan		
	ove Ent		aturn

Selecting Picture Size





Press the **EXIT** button to exit the menu.

Setup is switched to the selected mode.



Picture Ad

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	(1)

Mode 1080i 720p 576p 480p 16:9 Mode 4:3 Mode 1080i 720p 576p 480p 1080i 720p 576p 480p 16:9 Mode 480p 16:9 Mode 4:3 Mode	Full 0	Panorama X	Zoom1 X X O O X X X X X O O O O	Zoom2 X X X X X X X X X X X X X	4:3 0 X 0 0 X 0 0 X 0 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0
720p 576p 480p 16:9 Mode 4:3 Mode 1080i 720p 576p 480p 16:9 Mode		X X X X X X X X X X X X	X 0 X X X X X 0 0	X X X X X X X X X X	X 0 0 X 0 0 X 0 0 X
576p 480p 16:9 Mode 4:3 Mode 1080i 720p 576p 480p 16:9 Mode	0 0 0 0 0 0 0 0 0	X X X X X X X X X X	0 0 X X X X 0 0	X X X X X X X X	0 0 X 0 0 X 0
480p 16:9 Mode 4:3 Mode 1080i 720p 576p 480p 16:9 Mode	0 0 0 0 0 0 0	X X X X X X X X X	0 X X X X 0 0	X X X X X X X	0 X 0 0 X 0
16:9 Mode 4:3 Mode 1080i 720p 576p 480p 16:9 Mode	0 0 0 0 0	X X X X X X X	X X X X O O	X X X X X X	X 0 0 X 0
4:3 Mode 1080i 720p 576p 480p 16:9 Mode	0 0 0 0 0	X X X X X X	X X X O O	X X X X X	0 0 X 0
1080i 720p 576p 480p 16:9 Mode	0 0 0 0	X X X X	X X O O	X X X	0 X 0
720p 576p 480p 16:9 Mode	0 0 0	X X X	X 0 0	X X	X
576p 480p 16:9 Mode	0	X X	0	Х	0
480p 16:9 Mode	0	Х	0		
16:9 Mode	-		-	Х	0
	0	V			
4.2 Mada		^	Х	Х	Х
4.3 10000	0	Х	Х	Х	0
1080i	0	Х	Х	Х	0
720p	0	Х	Х	Х	0
576p	0	Х	0	Х	0
480p	0	Х	0	Х	0
576i	0	0	0	0	0
480i	0	0	0	0	0
480i	0	0	0	0	0
	480p 576i 480i	480p O 576i O 480i O	480p O X 576i O O 480i O O	480p O X O 576i O O O 480i O O O	480p O X O X 576i O O O O 480i O O O O

Picture Size

Supported Picture Sizes

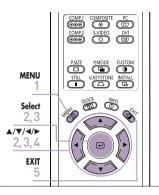
Input

O: Supported Modes X: Unsupported Modes

NOTE

Screen Position Adjustment

Adjust the screen position if the edges are not aligned.





- Press the **MENU** button. The main menu is displayed.
- Press the \blacktriangle or \checkmark button to move to **Picture**. The **Picture** menu is displayed. Press the 🖓 button.



- Press the \blacktriangle or \blacktriangledown button to move to **Position**, then press the e button.
- Press the \blacktriangle , \bigtriangledown , \triangleleft , or \triangleright buttons to adjust the position. The Screen is moved and set in the selected position.
- Press the **EXIT** button to exit the menu.

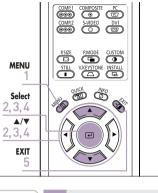
Picture Adjustment



10

The respective position information is set and NOTE stored automatically to the corresponding external input modes (Component 1, 2 / S-VIDEO, Composite / PC/DVI).







Picture Adjustment

Film Mode

Press the **MENU** button. The main menu is displayed. Press the \blacktriangle or \checkmark button to move to **Picture**. 2 The **Picture** menu is displayed. Press the 🖓 button.

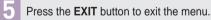


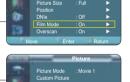
Press the \blacktriangle or \checkmark button to move to Film Mode, then press the e button.



EXIT

Press the \blacktriangle or \checkmark button to move to **On**, then press the 🕑 button. Setup is switched to the selected mode.

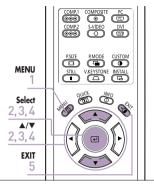


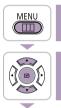


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Used to display raw input signals from 480p, 576p, 720p, 1080i HD sources or scale to fit to 1280 x 720 resolution after cutting out certain boundaries using software scaling.





The main menu is displayed. Press the \blacktriangle or \checkmark button to move to **Picture**.

Press the **MENU** button.

The **Picture** menu is displayed.



-

EXIT

Press the 🖓 button.

Press the \blacktriangle or \blacktriangledown button to move to **Overscan**,

- - Press the \blacktriangle or \checkmark button to move to **On**, then

then press the e button.

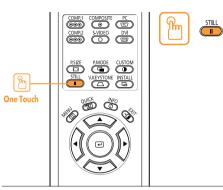
- press the 🕑 button. Setup is switched to the selected mode.
- Press the **EXIT** button to exit the menu. $(- \square)$



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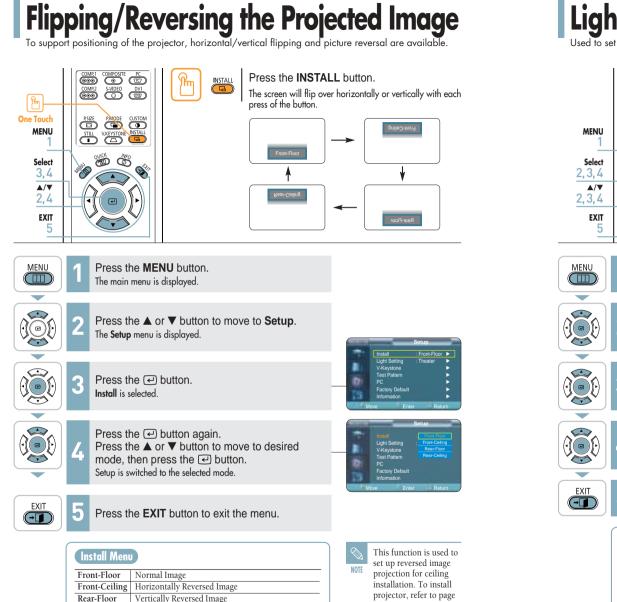


Press the STILL button.

Each press of the button pauses and resumes play back.

Setup

lipping/Reversal of Projected Image	44
ight Setting	4
Correcting V-Keystone	4
lest Patterns	47
Restoring the Factory Default Settings	4
nformation	49



14.

COMP.1 COMPOSITE PC COMP.2 S-VIDEO DVI COMP.2 S-VIDEO DVI COMP.2 COMPOSITE PC COMP.2 S-VIDEO DVI COMP.2 COMPOSITE PC COMP.3 COMPOSITE PC COMPOSITE PC

STILL V.KEYSTONE INSTALL

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Press the **MENU** button.

Press the \blacktriangle or \checkmark button to move to **Setup**.

Press the \blacktriangle or \triangledown button to move to Light Setting, then press the \bigcirc button.

Press the \blacktriangle or \checkmark button to move to desired

Press the **EXIT** button to exit the menu.

Used to reduce the brightness of the lamp in dark

ambient light to prevent reflection in the eye. It also

Used to enhance the brightness in relatively bright

lowers power consumption and extends the life of the

mode, then press the 🕑 button.

Setup is switched to the selected mode.

Light Setting Mode

lamp.

ambient light.

Theater

Bright

The main menu is displayed.

The **Setup** menu is displayed.

Press the 🖓 button.

0000

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Used to set the image brightness by adjusting the amount of light generated by the lamp.

Light Setting Theater Bright + Move Enter Return

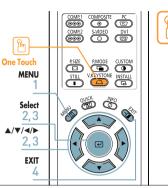
actory Defaul

44

Rear-Ceiling Horizontal/Vertical Reversed Image

Correcting Vertical Keystone

Used to compensate image shape when image distortion occurs.



Press the V.KEYSTONE button. V.KEYSTONE

Press the \blacktriangleleft or \blacktriangleright button to adjust picture image optimally.



Setup

Correcting V-Keystone

Press the **MENU** button. The main menu is displayed.



Press the \blacktriangle or \checkmark button to move to **Setup**. The Setup menu is displayed. Press the 🖓 button.

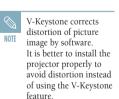


Press the \blacktriangle or \checkmark button to move to V-Keystone, then press the *e* button. Press the \blacktriangleleft or \blacktriangleright button to adjust.



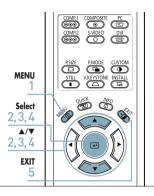
Press the EXIT button to exit the menu.





Test Patterns

Generated by the projector itself. Utilized as installation basis for better installation of the projector.





- Press the **MENU** button. The main menu is displayed.
- Press the \blacktriangle or \checkmark button to move to **Setup**.

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The **Setup** menu is displayed. Press the 🖓 button.



Press the \blacktriangle or \checkmark button to move to **Test Pattern**, then press the 🕑 button.



EXIT

- Press the \blacktriangle or \checkmark button to move to desired pattern, then press the 🕑 button. The selected pattern is displayed.
- Press the **EXIT** button to exit the menu.

Test	Pattern	Menu
------	---------	------

Crosshatch	You can check whether the picture is distorted or not.
Screen Size	You can refer to picture format sizes such as 1.33:1
	or 1.78:1.
Color Standard	You can see the change in colours by switching
	between SMPTE_C, HD and EBU Colour
	Standards. Refer to page 32.
Red	Red Screen, only for color adjustment.
Green	Green Screen, only for color adjustment.
Blue	Blue Screen, only for color adjustment.
White	White Screen, only for color adjustment.
6500K_White	White Screen, shows brightest white color possible

47

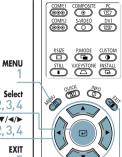


The Crosshatch and Screen Size patterns of NOTE this projector are provided by JKP (JK Production).

> The Red/Green/Blue colors of the test patterns are only for the color adjustment procedures, and may not comply with the actual colors displayed during video playback.

Restoring the Factory Default Settings

Used to restore setting values to factory defaults.





3

5

MENU

S

Setup

The Setup menu is displayed. Press the 🖓 button.

press the 🕑 button.

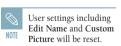
Setting values are returned to factory defaults.

Press the EXIT button to exit the menu.



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Press the **MENU** button. The main menu is displayed. Press the \blacktriangle or \checkmark button to move to **Setup**. Press the ▲ or ▼ button to move to Factory Default, then press the e button. Press the \triangleleft or \triangleright button to move to **OK**, then

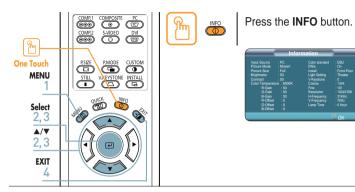


Cancel

ОК

Information

You can check external source signals, picture setup, PC picture adjustment and lamp use time.





Press the MENU button. The main menu is displayed.

The Setup menu is displayed.

then press the e button.

adjustment and lamp use time.

Press the 🕑 button.



- Press the \blacktriangle or \checkmark button to move to **Setup**.
- $\overline{\bigcirc}$

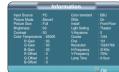


Press the **EXIT** button to exit the menu.

Press the \blacktriangle or \checkmark button to move to **Information**.

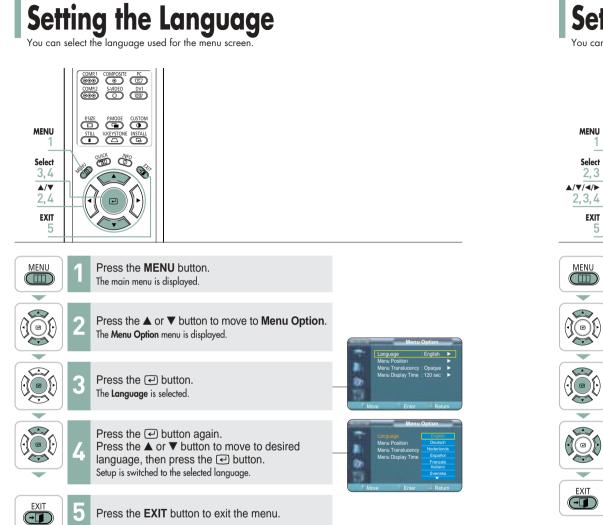
You can check external source signals, picture setup, PC picture





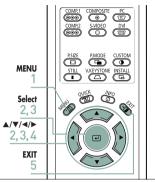
Menu Option

Setting the Language	52
Setting the Menu Position	53
Setting the Menu Translucency	54
Setting the Menu Display Time	5!
Selecting the Quick Menu	56



Setting the Menu Position

You can move Menu Position to up/down/left/right.





- The main menu is displayed. Press the \blacktriangle or \blacktriangledown button to move to Menu Option.
- The Menu Option menu is displayed. Press the 🖓 button.

Press the **MENU** button.



-

Press the \blacktriangle or \blacktriangledown button to move to **Menu**

Position, then press the *€* button.

Press the \blacktriangle , \bigtriangledown , \triangleleft , or \triangleright button to move to desired position. The menu screen is displayed on the given position.

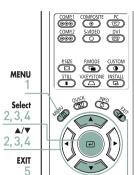
Press the **EXIT** button to exit the menu.

Menu Option

Setting the Language

Setting the Menu Translucency

You can set the translucency of menu.





MENU

-

C.S

2

Press the ▲ or ▼ button to move to Menu Option. The Menu Option menu is displayed. Press the 🖓 button.

Press the **MENU** button.

The main menu is displayed.



Press the ▲ or ▼ button to move to desired mode, then press the 🕑 button. Setup is switched to the selected mode.



Press the EXIT button to exit the menu.

Press the ▲ or ▼ button to move to Menu

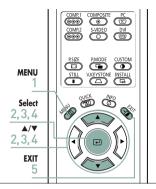
Translucency, then press the e button.





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Setting Up the Menu Display Time You can set the display time of the menu.





- Press the **MENU** button. The main menu is displayed. Press the ▲ or ▼ button to move to Menu Option.
- Press the 🖓 button.



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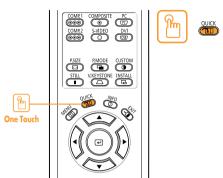
- The Menu Option menu is displayed.
- Press the \blacktriangle or \blacktriangledown button to move to **Menu**
 - **Display Time**, then press the e button.
 - Press the \blacktriangle or \checkmark button to move to desired time. then press the e button. Setup is switched to the selected time.
 - Press the **EXIT** button to exit the menu.



enu Option

Setting Up the Menu Display Time

Selecting the Quick Menu



VISUAL REALISM

Press the **QUICK** button. The menu you used previously will appear.

Connecting to PC

Before Connecting to PC	58
Setting up the PC Environment	59
Connecting to PC	60
Automatic Picture Adjustment	62
Frequency Adjustment	63
Fine Tuning with the Phase Adjustment	6 4
Zooming the Screen	65
Reset the PC	66



Check the following before connecting the projector to a PC.

Check the following before connecting:

- Adjust the PC display setting to the resolution and frequency supported by the projector.
- Refer to the PC user manual (graphic and sound card) when connecting the projector to PC.
- Do not connect power cord until all connections are completed. It may result in damage to the product if you connect power during connection.
- Check the graphic card port type installed in PC.

Display modes supported by this projector

		Resolution (H x V)		Horizonta	I Sync	Vertical	Sync	Pixel	Sync Type		
Source	Mode		Total Resolution	Frequency [KHz]	Polarity	Frequency [Hz]	Polarity	Clock [MHz]	Separate	Composite	SOG (Sync-O -Green)
		640 x 350	800 x 449	31.47	Р	70	N	25.175	0	0	Х
			832 x 445	37.86	Р	85.1	N	31.5	0	0	Х
		720 x 400	900 x 449	31.47	N	70	Р	28.322	0	0	Х
			936 x 446	37.93	N	85	Р	35.5	0	0	Х
-	VGA	640 x 480	800 x 525	31.47	N	60	N	25.175	0	0	Х
PC &			864 x 525	35.00	N	66.7	N	30.24	0	0	Х
DVI			832 x 520	37.86	N	72.8	N	31.5	0	0	Х
			840 x 500	37.5	N	75	N	31.5	0	0	Х
			832 x 509	43.27	N	85	N	36	0	0	Х
		800 x 600	1024 x 625	35.16	N/P	56.3	N/P	36	0	0	Х
			1056 x 628	37.88	Р	60.3	Р	40	0	0	Х
			1040 x 666	48.08	Р	72.2	Р	50	0	0	Х
	SVGA		1056 x 625	46.87	Р	75	Р	49.5	0	0	Х
			1048 x 631	53.67	Р	85.1	Р	56.25	0	0	Х
		832 x 864	1152 x 667	49.73	N	74.6	N	57.284	0	0	Х
		1024 x 768	1344 x 806	48.36	N	60	N	65	0	0	Х
	XGA		1328 x 806	56.4	N	70.1	N	75	0	0	Х
			1312 x 800	60.02	Р	75	Р	78.75	0	0	Х
	SXGA	1280 x 1024	1688 x 1066	63.981	Р	60.02	Р	108	0	Х	Х
		1920 x 1080i	2200 x 1125	33.75	Х	60	Х	74.25	0	Х	SOY
PC &			2640 x 1125	28.125	Х	50	Х	74.25	0	Х	SOY
& DVI	HD	1280 x 720p	1650 x 750	45	Х	60	Х	74.25	0	Х	SOY
& omponent	HD		1980 x 750	37.5	Х	50	Х	74.25	0	Х	SOY
		720 x 480p	858 x 525	31.5	Х	60	Х	27	0	Х	SOY
		720 x 576p	720 x 576	31.25	Х	50	Х	27	0	Х	SOY
		720 x 480i	858 x 525	15.73	Х	60	Х	13.5	0	Х	SOY
omponent	SD	720 x 576i	864 x 625	15.625	Х	50	Х	13.5	0	Х	SOY

Refer to "Rear Side and Cables" on page 10 for cables used for connection.

Setting up the PC Environment

- Click the right mouse button on the Windows wallpaper and click on Properties. Display Properties tab will appear.
- 2 Click on Settings tab and set the Screen resolution by referring to Resolution described in the display mode table supported by this projector.

Click on Monitor tab and set the Screen refresh rate by

referring to Vertical Frequency described in the display

Set up both the vertical and horizontal frequency instead of Screen

F Press the OK button to close the window and press the OK

Shut down the PC and connect to the projector. (Page 60)

button in Display Properties window to close.
The computer might begin restart automatically.

You do not have to change Color quality setup.

mode table supported by this projector.

Press the Advanced button.

refresh rate.

Another property window will appear

2

3

Setting up the PC Environment

inecting

5

2

- The second second
- Process might vary depending on the type of computers or Windows versions.
 - This appliance supports up to 32 bits per pixel in Color quality when it is used as a PC monitor.
 - Projected images may differ from the monitor depending on monitor manufacture or Windows versions.
 - If a band or an unusual signal appears on the projector when PC is turned off or disconnected, switch to COMPOSITE mode using the SOURCE button or check that PC is properly connected.
 - When connecting the projector to PC (including DVI connection), check that PC setup complies to display settings supported by this projector. If not, there may be signal problems.

Connecting

to PC

Before Connecting

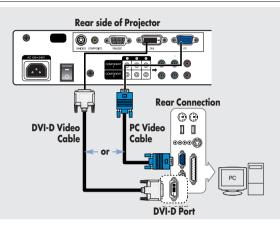
5

PC



You can connect a PC to the projector and use it as a monitor.

Using PC Video Cable or DVI Cable

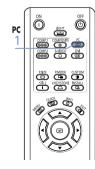


Connect PC (RGB In) port on the rear side of the projector to the monitor output port of PC using PC video cable.

■ If PC has a DVI output port, connect it to DVI port of the projector.

This product supports Plug & Play. No driver installation is needed for Windows XP.

Viewing the PC Screen



- Turn on the projector and press the PC button to select PC. If the projector is connected to DVI, press the DVI button to select DVI.
 - If PC Mode is not available, check PC video cable is in place.
- **2** Turn on the PC and set the PC Environment when necessary. (Page 59)
- 3 Adjust the screen. (Pages 62~65)
- Enjoy better picture quality by using DVI-D cable (supports digital signals only) instead of PC Video cable. NOTE

PC

- DVI-I cable (supports analog signals) is not supported. Use DVD-D cable.
- Sound comes out from PC speakers.

	uration of PC Video	l on l log			
C Video		DVI-D			
5-pin si	ignal)	(suppo	rts only digital signals)		
	0000				
Pin No.	PC Input	Pin N	o. Signal	Pin No.	Signal
1	Red (R)	1	T.M.D.S. DATA2-	13	T.M.D.S. DATA3+
2	Green (G)	2	T.M.D.S. DATA2+	14	+5V Power
3	Blue (B)	3	T.M.D.S. DATA2/4 Shield	15	Ground for 5V
4	Ground	4	T.M.D.S. DATA4-	16	Hot Plug Detect
5	Ground (DDC)	5	T.M.D.S. DATA4+	17	T.M.D.S. DATA0-
6	Red (R) Ground	6	Clock (DDC)	18	T.M.D.S. DATA0+
7	Green (G) Ground	7	Data (DDC)	19	T.M.D.S. DATA0/5 Shield
8	Blue (B) Ground	8	No Connection	20	T.M.D.S. DATA5-
9	Reserved	9	T.M.D.S. DATA1-	21	T.M.D.S. DATA5+
10	Ground Sync	10	T.M.D.S. DATA1+	22	T.M.D.S. Clock Shield
11	Ground	11	T.M.D.S. DATA1/3 Shield	23	T.M.D.S. Clock+
12	Data (DDC)	12	T.M.D.S. DATA3-	24	T.M.D.S. Clock-
13	Horizontal Sync				
14	Vertical Sync				

VESA Plug & Play

Clock (DDC)

15

DVI-D cable does not support analog RGB signals. CAUTION

This appliance supports VESA Plug & Play and recognizes connection to PC automatically.

Connecting to PC

60

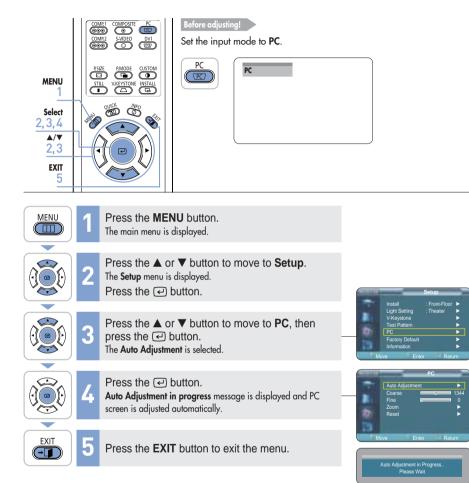
Connecting to PC

Connecting to PC

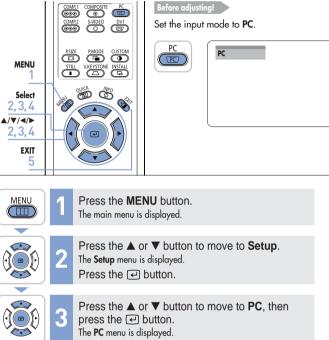
NOTE

Automatic Picture Adjustment

Used to adjust frequency and phase of PC screen automatically.



Used to adjust frequency when vertical lines appear on PC screen.



Press the ▲ or ▼ button to move to Coarse, then press the button. Press the ◄ or ► button to adjust.

-

EXIT

 $(- \square)$

5 Press the **EXIT** button to exit the menu.

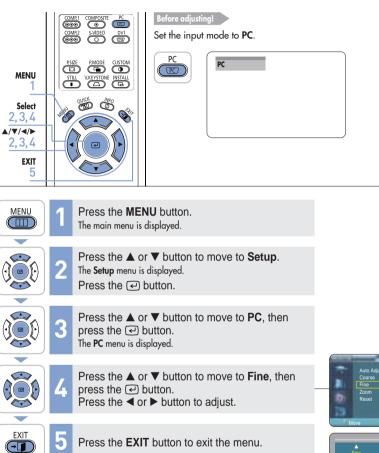


Connecting to PC

Automatic Picture Adjustment

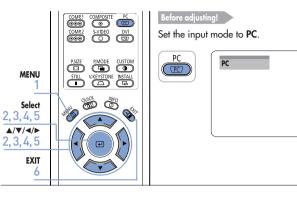
Fine Tuning with the Phase Adjustment

Used to fine tune the PC screen.





Zooming the Screen Used to extend PC screen from the center.





- Press the **MENU** button. The main menu is displayed.
- Press the \blacktriangle or \checkmark button to move to **Setup**. The Setup menu is displayed. Press the 🖓 button.



Press the \blacktriangle or \checkmark button to move to **PC**, then press the 🕑 button. The **PC** menu is displayed.



Press the \blacktriangle or \checkmark button to move to **Zoom**, then press the 🕑 button.



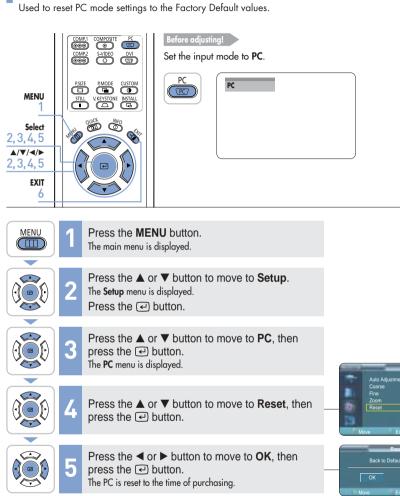
EXIT

- Press the \blacktriangle , \bigtriangledown , \triangleleft , or \triangleright button to move to desired position, then press the 🕑 button to extend as you want. The screen can be extended by 1, 2, 4, or 8 times.
- Press the **EXIT** button to exit the menu.

x2 🚯 Move 🗰 Zoom 💷 Return

Fine Tuning with the Phase Adjustment

Connecting to PC





Reset the PC

Press the **EXIT** button to exit the menu.

VISUAL REALISM

Troubleshooting

Before Contacting Service Personnel........68

Before Contacting Service Personnel If this projector does not operate properly, check the following first. If the problem is continues, contact your dealer.

Installation and Connection

Symptoms	Troubleshooting	Note
No Power.	Be sure that the power cord in place and the power switch on the rear side of the projector is turned on "—".	Page 15
Image is distorted or trapezoidal.	Be sure to make the projection beam perpendicular to the screen and adjust the focus using the Zoom Knob and the Focus Ring. Avoid to use the V-Keystone function if possible.	Pages 16~20
Want to install projector on ceiling.	Ceiling bracket is an optional accessory. Please contact your dealer.	
Image is distorted or trapezoidal.	Be sure that the connection cable (video) is properly connected to the proper port. Unless they are connected properly, the device is not available.	Pages 23~25

Troubleshooting

Before Contacting Service Personnel

. 0 Menu and Remote Control

Symptoms	Troubleshooting	Note
Remote control does not work.	Be sure that the proper external source is selected.Check batteries of the remote control. If there is a problem, replace them with recommended ones.	Page 26 Page 12
	Check the angle and distance between the remote control and the projector. Be sure that there is no obstacle between the projector and the remote control that may block the signal.	Page 13
	 Direct lighting of 3-way light bulbs or other lighting device on the remote sensor of the projector may affect the sensitivity and cause the remote control to malfunction. 	
Some of Menu functions do not work.	Refer to the user manual. Some functions are locked depending on sources and type of the input signal.	Pages 23~26

Screen and External Source

Symptoms	Troubleshooting	Note
Cannot see picture images.	 Be sure that the power cord of the projector is in place. Be sure that the proper input source is selected. Be sure that cable is properly connected to the rear panel of the projector. Check the Remote Control batteries. Be sure that the Color, Brightness settings are not at their lower limit. 	Page 15 Page 26 Pages 23~25 Page 12 Page 31
Poor color.	Adjust the Color and Brightness.	Page 31
Images are not clear.	Adjust the focus.Check that the projection distance is either too far or too near to the screen.	Page 16 Page 19~20
Strange noise.	Contact your service personnel if the noise continues due to defective parts.	
Repair indicator is on.	Refer to instructions on lamp and repair.	Page 9
Lines appear on screen.	Noisy lines may appear for PC mode in case of frequency discrepancy. Adjust the vertical frequency of your video card on the advanced display property.	Page 63
Green appears on the screen.	Be sure to properly connect the external devices. Especially, connect the component (Y, Pb, Pr) cables matching the color codes.	Pages 23~25
Cannot see the picture from the external devices.	Be sure that the proper operation of the external device. Adjustable items of the Custom Picture Menu are properly set.	Pages 26, 31
Only blue screen appears.	Be sure to properly connect the external devices. Check the connection cables again.	Pages 26, 23~25
Screen appears in black and white or odd color/screen is too dark or bright.	 Adjustable items of the Custom Picture Menu are properly set. Execute Factory Default if you want to restore the factory default setting values. 	Page 31 Page 48

68

Other Information

Storage and Maintenance	75
Purchasing Optional Parts	7
Structure of Screen Menu	7
Lamp Replacement	7
Specifications	7
Remote Control Specifications	7

Storage and Maintenance

Clean and maintain the projector in the following way.

Cleaning the Projector and Lens

Use a dry soft cloth.

- Do not use flammable materials such as benzene and thinner. Do not use a wet cloth. It may result in malfunction.
- Do not clean the lens using a fingertip or a sharp object. It may leave scratches.



Purchasing Optional Parts Information for purchasing accessories or optional parts.

Optional Parts

DVI-D Cable



You can purchase at electronics shops or over the Internet.

Video (Composite) Cable

S-Video Cable **Component Cable**



1.5V AAA Batteries



You can purchase at electronics shops or over the Internet. Or you can call your dealer or service center.

Cleaning the Inside of the Projector

Contact your dealer or service personnel to clean the inside of the projector.

Contact your dealer if particles or other objects are stuck inside of the projector.



72

Other Information

Storage and Maintenance

Structure of Screen Menu

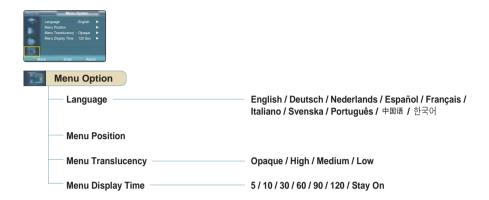
You can see the entire structure of screen menu.

			_			
Buttons used for Scre	en Menu					
MENU				Picture Size		Full / Panorama / Zoom1 / Zoom2 / 4:3
MENU Open Menu/Exit	Menu	Select an item/change setting value	-	 Position 		
				DNIe		Off / Demo / On
Select Composite/S-\	lideo/Component Ir	anut Mode		Film Mode		Off / On
		ipoi mode				
Source in the second se		10 / 0 /// dec / 0 anne site / 00 / D//	indi indi indi indi indi indi indi indi	Overscan		Off / On
		t2 / S-Video / Composite / PC / DVI	6307			
		t2 / S-Video / Composite / PC / DVI (Selected without Input))	Install		Front-Floor / Front-Ceiling / Rear-Floor / Rear-Ceilir
	/CR / DVD / Cable / Satelli Camcorder / Combo / PC	ite / AV Receiver / DVD Receiver / Game		Light Setting	Theater	
(Bright	
Picture Picture Mode Movieri + Conten Fotor - Picture Stare Frail + DNe CM - File Mode : CM - File Mode : CM - Overan : Ch - Move Enter Instant				V-Keystone	Crosshatch Screen Size	-50 ~ 50
Picture					Color Standard	
					Red	
Picture Mode		 Dynamic / Standard / Movie1 / Movie2 / User1 / User2 / User3 / Custom 			Green	
					Blue	
Custom Picture	Contrast	0 ~ 100			White	
	Brightness	0 ~ 100			6500K_White	
	Sharpness	0 ~ 100			0300N_Wille	
	Color	0 ~ 100		PC	Auto Adjustment	
	Tint	0 ~ 100 (Not supported in 480p mode or above)			Coarse	
	Color Standard	SMPTE_C/HD/EBU			Fine	
	Color Temperature	5500K / 6500K / 8000K / 9300K			Zoom	
	Gamma	Gamma Mode1 / Gamma Mode2 / Gamma Mode3			Reset	OK / Cancel
1	Save	User1 / User2 / User3		Factory Default		OK / Cancel
						on ounder
				- Information		

Other Information

Structure of Screen Menu

Structure of Screen Menu (Continued)



Lamp Replacement

Cautions on Lamp Replacement

- Projector lamp requires replacement after.
- Use the recommended lamp when replacing. Lamp specifications are defined in the user's manual. Replace with the same model provided with the projector.
 - Lamp Model Name : LAMP-MERCURY-Philips
 - Lamp Manufacture : Philips Lighting
- Lamp Life Time : 2000Hrs
- Lamp Type : 250W UHP
- Lamp Part Number : BP47-00010A
- Check that the power cord is unplugged before replacing lamps.
- Wait for at least 30 minutes before replacing lamps to cool off the lamp unit after disconnecting power.
- Lamp is a high-pressure product. Do not place near flammable materials or children.
- Remove dirts or foreign materials around or inside the lamp unit using a proper vacuum device.
- Be careful not to touch the lamp itself when handling the lamp unit.
- If the lamp is poorly handled, it may result in poor picture quality or shorter life time of lamp.
- The projector is will not operate normally if the cover is not locked completely after lamp replacement. Refer to LED information in the user's manual if the projector does not operate normally.

Lamp Replacement Procedure

Detach the screw of the lamp cover.

4 Lift and grip the lamp

- 2 Push to open the lamp cover in the direction of the arrow.
- 3 Detach the three screws.

Wait for at least 30

disconnecting power. Be sure that the power cord is disconnected before proceeding.



- 5 Reverse the disassembly procedure to assemble the unit after replacement.

handle in the direction of

the arrow and pull it out.

- NOTE
- The Lamp is hightemperature highpressure product.
- minutes to proceed after

Other Information

Lamp Replacement

Other Information

Structure of Screen Menu



Specifications

Design and specifications of the product may be modified without prior notice for better performance. This appliance is Class B device that can be used in both residential and industrial areas.

Classification	Model		SP-H700	SP-H500		
Panel	Size		0.8"(HD2+)	0.63"(ED2)		
	Resolution		1280 x 720	1024 x 576		
Lamp	Туре		250W	UHP		
I	Life Time	2000Hrs				
Power	Power Consumption		350	W		
	Voltage		AC 100	-240V		
	Frequency		50/60Hz			
Dime	ensions		384 x 425 x 177 mm/	'15.1" x 16.7" x 7.0"		
We	eight		9.0 kg/	19.8 lb		
Acces	ssories	Own	er's Instructions, Power C	ord, Remote control, Batteries		
Key Features	Brightness		700 ANSI	600 ANSI		
	Contrast (Theatre Mode)		2800 : 1	2000 : 1		
	Screen Size	Diagonal 30.385~300"		Diagonal 40~200"		
	Projection Range	1.0 ~	13.6 m / 3.4 ~ 44.8 ft	1.3 ~ 8.8 m/4.4 ~ 28.5 f		
	Keystone		Vert	ical		
Input/Output	DVI	1) Connector Type: DVI-D				
		2) Available Format: PC - VGA~SXGA				
			DTV - 480p, 5	76p, 720p, 1080i		
		3) Frequer				
	PC	1) Connec				
		2) Frequency: Refer to page 63.				
	Component 1	1) Signal Type: Y, Pb, Pr				
	Component 2	2) Availab	e Format: 480i, 480p, 576	Format: 480i, 480p, 576i, 576p, 720p, 1080i		
		3) Frequer	ncy: Refer to page 63.			
	S-Video		Signal Format: NT	SC, PAL, SECAM		
	Composite	Signal Format: NTSC, PAL, SECAM				
	RS-232C		Service	e Port		
User Environment	Temperature and	Operating	Temperature (32~104°F	/0~40°C), Humidity (10~80%)		
	Humidity	Storage	Temperature (-4~113°F	/ -20~45°C), Humidity (5~95%)		
	Device Classification		Clas	-		
	Noise		Min 28dB (Th	eater Mode)		

The DMD Panel used in Samsung Projectors consists of several hundred thousand micro mirrors. As with other visual display elements, the DMD Panel may include a few bad pixels. Samsung and the DMD Panel manufacturer have a rigid, bad pixel identification and limitation procedure in place and products will not exceed the maximum number of bad pixels set by our standards. Rarely, non-displayable pixels may exist, however it does not affect the overall picture quality nor the lifespan of the product.

Remote Control Specifications

Function and Transmission Codes

В	utton	System Code	Data Code	Button		System Code	Data Code
(Power) ON		07	99	CUS	CUSTOM		1E
(Pow	er) OFF	07	98	ST	ILL	07	42
COMP.1 (0	Component1)	07	86	V.KEY	STONE	07	81
COMP.2 (0	Component2)	07	88		Front-Floor	07	BB
COM	POSITE	07	84	INSTALL	Front-Ceiling	07	EE
S-V	/IDEO	07	85	INSTALL	Rear-Floor	07	EF
	PC	07	69		Rear-Ceiling	07	BF
I	DVI	07	8A	MENU		07	1A
	Full	07	E4	QUICK INFO		07	58
	Panorama	07	E2			07	1F
P.SIZE	Zoom1	07	53	EXIT		07	2D
	Zoom2	07	E1	4 ((Up)	07	60
	4:3	07	E3	▼ (Down)		07	61
	Dynamic	07	BD	◀ (Left)	07	65
	Standard	07	E8	▶ (Right)	07	62
	Movie1	07	E9	e	(Enter)	07	68
P.MODE	Movie2	07	EA				
	User1	07	EB				
	User2	07	EC				
	User3	07	ED				
	Custom	07	BC				

Remote Control Signal Format

	LEADER	PULSE	System Code	System Code	Data Code	/Data Code (Reverse Data Code)
~	4.5msec	← → 4.5msec	<> 07h	←> 07h	≺ → Data	/Data (Reverse Data)

Other Information

Specifications