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Safety Information



The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

- Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
- Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
- 3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- 4. Clean only with dry cloth.

2

English

- 5. Only use attachments/accessories specified by the manufacturer.
- 6. Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside. Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
- Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- 8. See projector enclosure for safety related markings.
- 9. The unit should only be repaired by appropriate service personnel.

Precautions

Please follow all warnings, precautions and maintenance as recommended in this user's guide.

- Warning- Do not look into the projector's lens when the lamp is on. The bright light may hurt and damage your eyes.
- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Warning- Please do not open or disassemble the projector as this may cause electric shock.
- Warning- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages 57-58.
- Warning-This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Reset the "Lamp Reset" function from the on-screen display "OPTIONS | Lamp Settings" menu after replacing the lamp module (refer to page 51).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use lens cap when projector is in operation.
- Warning- When the lamp is approaching the end of its lifetime, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Warning-Do not look into or point the laser pointer on your remote control into your or someone's eyes. Laser pointer can cause permanent damage to eyesight.



When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 57-58.



Do:

- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Do not:

- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - Ensure that the ambient room temperature is within 5 - 35°C.
 - Relative Humidity is 5 35°C, 80% (Max.), non-condensing.
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.

Eye Safety Warnings



- Avoid staring/facing directly into the projector beam at all times. Keep your back to the beam as much as possible.
- When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.
- In order to minimize the lamp power, use room blinds to reduce ambient light levels.

Product Features

- XGA (1024x768) Native resolution / WXGA (1280x800) Native resolution
- HD compatible 1080p supported
- VGA monitor loop through (works on standby mode > 1W)
- BrilliantColor[™] Technology
- Security Bar and Kensington Lock
- RS232 control
- Rapid shutdown
- Built-in speakers
- Network support



 Monitor loop through only support in VGA1-In/ SCART/YPbPr.





Package Overview

Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, please contact your nearest customer service center.





Power Cord 1.8m



VGA Cable 1.8m



- 2 × AAA Batteries
- Documentation : User's Manual Warranty Card Quick Start Card WEEE Card (for EMEA only)



IR Remote Control



Due to different

applications in each country, some regions may have

different accessories.

Product Overview



- 1. Control Panel
- 2. IR Receivers
- 3. Cable Cover
- 4. Speaker
- 5. Tilt-Adjustment Feet
- 6. Mirror Cover
- 7. Input / Output Connections
- 8 Power Socket

- 9. Focus Lever
- 10. Lens
- 11. Ventilation (inlet)
- 12. Ventilation (outlet)
- 13. Kensington[™] Lock Port
- 14. Security Bar
- 15. Dust filter

Control Panel



- 1. Lamp LED
- 2. Temp LED
- 3. Source
- 4. Re-Sync
- 5. Help
- 6. Power/Standby button and LED
- 7. Enter
- 8. Keystone Correction
- 9. Four Directional Select Keys
- 10. Menu

English

Input/Output Connections



- 1. 12V Trigger Relay (12V, 250mA)
- 2. 3.5mm Mini Jack Audio1 Input for VGA1/VGA2
- 3. 3pin Mini-din RS232
- 4. Composite Video Input
- 5. S-Video Input
- 6. VGA1/SCART/YPbPr Input
- 7. VGA-Out (monitor loop through)
- 8. HDMI v1.3 Input
- 9. 5pin Mini-USB for firmware upgrade
- 10. 3.5mm Audio Output (Variable)
- 11. 3.5mm Microphone Input
- 12. Left/Right RCA Audio2 Input
- 13. Power Socket
- 14. VGA2/YPbPr Input
- 15. RJ45



 Monitor loop through only support in VGA1-In/ SCART/YPbPr.

Remote Control



- 1. LED Indicator
- 2. Power On/Off
- 3. Four Directional Select Keys
- 4. Mouse Right Click
- 5. Page Up
- 6. Re-Sync
- Page Down 7.
- 8. Volume +/-
- 9. 3D
- 10. AV mute
- 11. Video
- 12. PC/Mouse control
- 13. Mouse Left Click
- 14. Enter/Help
- 15. Source
- 16. Keystone +/-
- 17. Menu
- 18. Brightness
- 19. HDMI
- 20. S-Video
- 21. Numbered keypad
 - (for password input)
- 22. Freeze
- 23. VGA
- 24. Laser Pointer



The interface is subject to model's specifications.

Connecting the Projector

Removing and Attaching the Cable Cover



Procedure for Removing and Attaching the Cable Cover:

- 1. Unscrew the screw on the cable cover. 1
- 2. Lift up and remove the cable cover. 2
- Install the cable cover by reversing the previous steps.





Connect to Computer/Notebook





- Due to the difference in applications for each country, some regions may have different accessories.
- (*) Optional accessory

Connect to Video Sources





Due to the difference in applications for each country, some regions may have different accessories.

 1......*Audio Cable RCA/RCA

 2.....*Microphone Cable

 3.....*Audio Cable Jack/RCA

 4.....*Composite Video Cable

 5.....*S-Video Cable

 6.....*S-Video Cable

 6.....*SCART/VGA Adaptor

 7.....VGA Cable

 8.....*HDMI Cable

 9......*HDMI Cable

 9......*Power Cord

 10......*15-Pin to 3 RCA Component/HDTV Adaptor

 11......*3 RCA Component Cable

 12......*12V DC Plug







Powering On the Projector

- 1. Securely connect the power cord and signal cable. When connected, the POWER/STANDBY LED will turn Amber.
- 2. Turn on the lamp by pressing "**U**" button either on the top of the projector or on the remote. The POWER/STANDBY LED will now turn Green.

The startup screen will display in approximately 10 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.

- Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS". Make sure that the "Source Lock" has been set to "Off".
- If you connect multiple sources at the same time, press the "SOURCE" button on the control panel or direct source keys on the remote control to switch between inputs.



Turn on the projector first and then select the signal sources.







When Power mode (Standby) is set to Eco (<1W), the VGA output, Audio pass-through and RJ45 will be deactivated when the projector is in standby.

Powering Off the Projector

 Press the "U" button on the remote control or on the control panel to turn off the projector. The following message will be displayed on the screen.



Press the "**U**" button again to confirm otherwise the message will disappear after 15 seconds. When you press the "**U**" button for the second time, the projector will display countdown timer and will shut down.

 The cooling fans continue to operate for about 10 seconds for cooling cycle and the POWER/STANDBY LED will Flash Green. When the POWER/STANDBY LED lights solid Amber, the projector has entered standby mode.

If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press "**也**" button to restart the projector.

- 3. Disconnect the power cord from the electrical outlet and the projector.
- 4. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

When the warning indicators (see below) come on, the projector will automatically shutdown:

- "LAMP" LED indicator is lit red and if "POWER/STANDBY" indicator flashes amber.
- "TEMP" LED indicator is lit red and if "POWER/STANDBY" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the projector can be switched back on.
- "TEMP" LED indicator flashes red and if "POWER/STAND-BY" indicator flashes amber.

Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, please contact your nearest service center for assistance.





 Contact the nearest service center if the projector displays these symptoms.
 See pages 68-69 for more information



Adjusting the Projected Image

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.

- 1. Locate the adjustable foot you wish to modify on the underside of the projector.
- 2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.



English 16

Adjusting the Projector's Focus

To focus the image, rotate the focus ring until the image is clear.

- XGA series: The projector will focus at distances from 1.58 to 2.17 feet (475 to 662 mm).
- WXGA series: The projector will focus at distances from 1.58 to 2.17 feet (495 to 661 mm).



Adjusting Projection Image Size

- XGA series: Projection Image Size from 63" to 85" (1.60 to 2.16 meters).
- WXGA series: Projection Image Size from 77" to 100" (1.96 to 2.54 meters).





B=>Vertical distance between lens center and screen center C.E=>Throw distance

D=>Vertical distance between lens center and bottom of screen (top of screen for ceiling mount) α=>Throw angle

YGA	-
AGA	

	Screen Size													
Diag	jonal		h (W)	Heigl	ht (H)	(1	3)	(0	C)	(C	D)	(1	Ξ)	(α)
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	degree
63	1600	50	1280	38	960	29	749	5	133	11	269	19	475	55.3
65	1651	52	1321	39	991	30	773	6	150	11	277	19	492	55.3
70	1778	56	1422	42	1067	33	832	8	192	12	299	21	534	55.3
75	1905	60	1524	45	1143	35	892	9	235	13	320	23	577	55.3
77	1956	62	1565	46	1173	36	915	10	251	13	329	23	594	55.3
80	2032	64	1626	48	1219	37	951	11	277	13	341	24	619	55.3
85	2159	68	1727	51	1295	40	1010	13	320	14	363	26	662	55.3

WXGA

		Screen Size						- - \				-\	(~)	
Diag	jonal	Widt	h (W)	Heigl	ht (H)	(1	3)		C)	([,, 		Ξ)	(α)
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	degree
77	1956	65	1659	41	1037	31	777	6	153	10	259	19	495	55.3
80	2032	68	1723	42	1077	32	808	7	174	11	269	20	516	55.3
85	2159	72	1831	45	1144	34	858	8	214	11	286	22	568	55.3
87.2	2215	74	1878	46	1174	35	880	9	226	12	293	22	569	55.3
90	2286	76	1939	48	1212	36	909	10	246	12	303	23	588	55.3
95	2413	81	2046	50	1279	38	959	11	283	13	320	25	625	55.3
100	2540	85	2154	53	1346	40	1010	13	319	13	337	26	661	55.3

This table is for user's reference only.

Control Panel & Remote Control

Control Panel



Using the Control Panel				
Power/ Standby but- () ton and LED		Refer to the "Power On/Off the Projector" section on pages 14-15. Indicate the projector's status.		
RE-SYNC		Automatically synchronize the projector to the input source.		
Enter	L	Confirm your item selection.		
SOURCE		Press "SOURCE" to select an input signal.		
Menu		Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, Press "Menu" again.		
Four Directional Select Keys		Use A V I to select items or make adjust- ments to your selection.		
Keystone		Use \blacktriangle \checkmark to adjust image distortion caused by tilting the projector. (±40 degrees)		
HELP		Help Menu (refer to page 22).		
Lamp LED	¥	Indicate the projector's lamp status.		
Temp LED	ł	Indicate the projector's temperature status.		

Remote Control

Using the Remote Control

	_			
ſ		•		
		Power	Laser	
		Up		
	Left	Enter	Right	
		Down		
	Ч	Page+	R	
	Source	↓ /?		
	Keystone	Page-	Volume	
	Brightness	Menu 2	30	
	HDMI	Freeze	AV mute	
	4 S-Video	5 VGA	6 Video	
	7	8	9	
(/	/

Using the remote Control					
Power 🕕	Refer to the "Power On/Off the Projector" section on pages 14-15.				
L Button	Mouse left click.				
R Button	Mouse right click.				
Page +	Use this button to page up.				
Page -	Use this button to page down.				
Enter ←/ Help ?	← Confirm your item selection. ? Help Menu (refer to page 22).				
Source	Press "Source" to select an input signal.				
Re-SYNC	Automatically synchronizes the projector to the input source.				
Four Directional Select Keys	Use ▲ ▼ ◀▶ to select items or make adjustments to your selection.				
Keystone +/-	Adjust image distortion caused by tilting the projector.				
Volume +/-	Adjust to increase / decrease the volume.				
Brightness	Adjust the brightness of the image.				
3D	Press the "3D" to turn the 3D OSD menu on/off.				
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, press "Menu" again.				
HDMI	Press "HDMI" to choose HDMI source.				
Freeze	Press "Freeze" to pause the screen image. Press this button again to unlock.				

Model No : L-27231KEY
NOTICE
Rating:DC 3V === 60mA MAX

Using the Remote Control				
AV mute	Momentarily turns off/on the audio and video.			
S-Video	Press "S-Video" to choose S-Video source.			
VGA	Press "VGA" to choose VGA sources.			
Video	Press "Video" to choose Composite video source.			



Using the HELP button

The HELP function ensures easy setup and operation.

Press the "?" button on the remote control or press the "HELP" button on the control panel to open the Help Menu.





Help menu button functions only when no input source is detected.



If input source is detected and help button is pressed, the following pages will appear to help diagnose any problems.



English



 Please refer to the "Troubleshooting" section on pages 52-56 for more details.

	Im	age has slanted sides	
	e, reposition the pro the screen.	ojector so that is center	red on the screen and below the
▶ Press [KE	YSTONE + / -] butto	on until the sides are ve	ertical on the remote control.
[KEYSTOP (Exit]	NE + / -]		
🔶 UpDown	t.	Select	Menu Exit
	Image	e is too small or too larg	ge.
Move the p	NU] button on the n	top of projector. r further from the scree emote control or projec try the different setting:	tor panel,
(DISPLAY (Exit)	Formatj		
🔶 UpDown	؛ ب	Belect	Menu Exit
	There is no au	dio heard or the volum	e is too low.
	There is no au me setting at the m e volume setting.		e is too low.
Turn up the ? Is the cabl	me setting at the m e volume setting. e connected prope	inimum? rly to the projector?	
Turn up the ? Is the cabl	me setting at the m e volume setting. e connected prope physical connectio	inimum? rly to the projector?	e is too low. e is connected properly from the
 Turn up the Is the cable Check the source to p (Volume) 	me setting at the m e volume setting. e connected prope physical connectio	inimum? rly to the projector?	
 Turn up the Is the cable Check the source to particular 	me setting at the m e volume setting. e connected prope physical connectio	inimum? rly to the projector?	
 Turn up the Is the cable Check the source to p (Volume) 	me setting at the m e volume setting. e connected prope physical connectio projector.	inimum? rly to the projector?	
 Turn up the Is the cabil Check the source to point [Volume] [Exit] 	me setting at the m e volume setting. e connected prope physical connectio projector.	inimum? rly to the projector? n and ensure the cable	e is connected properly from the
 Turn up thi Is the cabil Check the source to ; [Volume] [Exit] UpDown 	me setting at the m e volume setting. e connected prope physical connectio projector.	inimum? rly to the projector? n and ensure the cable Select ge is unstable or flicker	e is connected properly from the
 Turn up thi Is the cabil Check the source to p [Volume] [Exit] UpDown Use [Pha 	me setting at the m e volume setting. e connected prope physical connectio orojector.	inimum? rly to the projector? n and ensure the cable Select ge is unstable or flicker	e is connected properly from the Remy Exit ring.
 Turn up thi Is the cabil Check the source to p [Volume] [Exit] UpDown Use [Pha 	me setting at the m e volume setting, e connected prope physical connectio projector.	inimum? rly to the projector? n and ensure the cable Select je is unstable or flicker	e is connected properly from the Remy Exit ring.



On-screen Display Menus

The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings.

How to operate

- To open the OSD menu, press "Menu" on the Remote Control or Projector Keypad.
- When OSD is displayed, use ◀▶ keys to select any item in the main menu. While making a selection on a particular page, press
 ▼ or "Enter" key to enter sub menu.
- Use ▲ ▼ keys to select the desired item and adjust the settings using ◀ ▶ key.
- 4. Select the next item to be adjusted in the sub menu and adjust as described above.
- 5. Press "Enter" to confirm, and the screen will return to the main menu.
- 6. To exit, press "MENU" again. The OSD menu will close and the projector will automatically save the new settings.





Menu Tree

Main Menu	Sub Menu		Settings
Image	Display Mode		Presentation / Bright / Movie / sRGB / Blackboard / Classroom / User / 3D
	Brightness		-50~50
	Contrast		-50~50
	Sharpness		1~15
	#1 Color		-50~50
	#1 Tint		-50~50
	Advanced	Gamma	Film / Video / Graphics / PC
	haranooa	BrilliantColor™	0~10
		Color Temp.	Warm / Medium / Cold
		Color Settings	Red Gain / Green Gain / Blue Gain / Red Bias / Green Bias / Blue Bias / Cyan / Magenta / Yellow / Reset / Exit
		Color Space	AUTO / RGB / YUV
		Input Source	VGA1 / VGA2 / Video / S-Video / HDMI
		Image Al	On / Off
		Exit	
Display	Format		#2 4:3 / 16:9-I / 16:9-II / Native / AUTO
			#3 4:3 / 16:9 or 16:10 / LBX / Native / AUTO
	Edge Mask		0~10
	Zoom		-5~25 (80%~200%)
	H Image Shift		-50~50
	V Image Shift		-50~50
	V Keystone		-40~40
	3D	(3D	Off / DLP-Link / IR
		#43D Sync. Invert	On / Off
		Exit	
Setup	Language		English / Deutsch / Français / Italiano / Español / Português / Svenska / Nederlands / Norsk/Dansk / Polski / Suomi / Русский / ἐλληνικά / Magyar / Čeština / سي افزيس / 繁體中文 / 简体中文 / 日本語 / む국어 / ไพย / Türkçe / Việt / Bahasa Indonesia
	#3 Screen Type		16:10 / 16:9
	Projection)_> «)_ /¯ _{>} «) ⁼
	Menu Location		
	^{#5} Signal	(Automatic	On / Off
		Phase (VGA)	0~31
		Frequency (VGA)	-5~5
		H. Position (VGA)	-5~5
		V. Position (VGA)	-5~5
		Exit	
	Security	(Security	On / Off
		Security Timer	Month / Day / Hour
		Change Password	
		Exit	

English 26

Main Menu	Sub Menu		Settings	
Setup	Projector ID	0~99		
	Mute	On / Off		
	Volume		0~10	
	Audio Input		^{#6} Default / Audio1(Phone jack) / Audio2 (RCA R/L)	
	Advanced	Logo	Optoma / Neutral / User	
		Logo Capture		
		Closed Captioning	Off / CC1 / CC2	
		Exit		
	Network	/ Network State		
		DHCP		
		IP Address		
		Subnet mask		
		Gateway		
		DNS		
		Apply	Yes / No	
		Exit		
Options	Source Lock		On / Off	
options	High Altitude		On / Off	
	Information Hide		On / Off	
	Keypad Lock		On / Off	
	Background Color		Black / Red / Blue / Green / White	
	IR Receiver	Front Receiver	On / Off	
		Top Receiver	On / Off	
	Advanced	/ Direct Power On	On / Off	
		Auto Power Off (min.)	0~180	
		Sleep Timer (min.)	0~995	
		Power Mode (Standby)	Eco. / Active	
		Exit		
	Lamp Settings	/ Lamp Hours		
		Lamp Reminder	On / Off	
		Brightness Mode	STD / Bright / Image Al	
		Lamp Reset	Yes / No	
		Exit		
	Reset Dust Filter		Yes / No	
	Reset			



Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.

- (#1) "Color" and "Tint" are only supported in Video mode.
- (#2) For XGA model only.
- (#3) For WXGA model only. 16:9 or 16:10 depend on "Screen Type" setting.
- (#4) "3D Sync Invert" is only available when 3D is enabled.
- * (#5) "Signal" is only supported in Analog VGA (RGB) signal.
- ♦ (#6) MIC volume can also be controlled by "Setup \rightarrow Volume" in OSD.

IMAGE



Display Mode

There are many factory presets optimized for various types of images.

- Presentation: Good color and brightness from PC input.
- Bright: Maximum brightness from PC input.
- Movie: For home theater.
- sRGB: Standardised accurate color.
- Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- Classroom: This mode is recommended for projecting in a classroom.
- User: User's settings.
- 3D: Recommand setting for 3D mode enabled. Any further adjustments by the user in 3D will be saved in this mode for further use.

<u>Brightness</u>

Adjust the brightness of the image.

- ▶ Press the ◀ to darken image.
- ▶ Press the ▶ to lighten the image.

<u>Contrast</u>

The contrast controls the degree of difference between the lightest and darkest parts of the picture.

- ▶ Press the ◀ to decrease the contrast.
- ▶ Press the ▶ to increase the contrast.

English 28

Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ to decrease the sharpness.
- ▶ Press the ▶ to increase the sharpness.

<u>Color</u>

Adjust a video image from black and white to fully saturated color.

- ▶ Press the ◀ to decrease the amount of saturation in the image.
- ▶ Press the ▶ to increase the amount of saturation in the image.

Tint

Adjust the color balance of red and green.

- ▶ Press the ◀ to increase the amount of green in the image.
- ▶ Press the ▶ to increase the amount of red in the image.



 "Color" and "Tint" functions are only supported under Video mode.



IMAGE | Advanced



Gamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

- Film: for home theater.
- Video: for video or TV source.
- Graphics: for image source.
- PC: for PC or computer source.

<u>BrilliantColor</u>™

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from "0" to "10". If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

<u>Color Temp</u>

If set to cold temperature, the image looks more blue. (cold image) If set to warm temperature, the image looks more red.

(warm image)

Color Settings

Press \checkmark into the next menu as below and then use \blacktriangle or \blacktriangledown to select item.

- Red Gain/Green Gain/Blue Gain/Red Bias/Green Bias/Blue Bias/Cyan/Magenta/Yellow: Use ◀ or ▶ to select Red, Green, Blue, Cyan, Magenta and Yellow Colors.
- Reset: Choose "Yes" to return the factory default settings for color adjustments.

IMAGE ADVANCE	D COLOR SETT	INGS
Red Gain	MIN	MAX 50
Green Gain	MIN	MAX 50
Blue Gain	MIN	MAX 50
Red Bias	MIN	Mex 50
Green Bias	MIN	Mex 50
Blue Bias	MIN	Mex 50
Cyan	MIN	Mex 50
Magenta	MIN	Mex 50
Yellow	MIN	MAX 50
Reset		
Exit		
🔶 UpDown	🕶 Select	Menu Exit

Color Space

Select an appropriate color matrix type from AUTO, RGB or YUV.

Input Source

Use this option to enable / disable input sources. Press \checkmark to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will not search for inputs that are not selected.

Image Al

Image AI improves the contrast of the picture by optimizing the brightness of the lamp according to the picture content.

- On: The dynamic image performance manager is active in making sure your greatest pleasure from seeing a movie dynamically with the most dark details revealed, vivid and bright image performed all the way.
- Off: The dynamic image performance manager is on standby.



DISPLAY

IMAGE	DISPLAY	SETU	P	OPTI	IONS
DISPLAY					
Format			LB)		
Edge Mask	Ē				10
Zoom	e			0,	10
H Image Shift					10
V Image Shift	. 🖬				10
V Keystone	_			· •	10
3D					
🔶 UpDown	🚽 Se	lect	Ment	Exit	

Format

Use this function to choose your desired aspect ratio.

XGA

- ▶ 4:3: This format is for 4×3 input sources.
- 16:9-I: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (576i/p)
- 16:9-II: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (480i/p)
- Native: This format displays the original image without any scaling.
- AUTO: Automatically selects the appropriate display format. When input is 4:3, the image is displayed as 4:3. When input is 16:9 above, the image is displayed as 16:9-1

Aspect ratio	Resize image	
(source detected)	XGA model	
4:3	1024 x 768 center	
16:9-I	1024 x 576 center	
16:9-II	854 x 480 center	
Native	No resize image, 1:1 mapping and centered. This format shows the original image without scaling.	

WXGA

- ▶ 4:3: This format is for 4×3 input sources.
- 16:9: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- 16:10: This format is for 16×10 input sources, like widescreen laptops.
- LBX: This format is for non-16x9, letterbox source and for users who use external 16x9 lens to display 2.35:1 aspect ratio using full resolution.
- Native: This format displays the original image without any scaling.

AUTO: Automatically selects the appropriate display format.

- 16:10 Screen 480i/p 576i/p 1080i/p 720p PC 4.3 1066 x 800 center 16:10 1280 x 800 center 1280 x 960 center, then get the central 1280 x 800 image I BX to display 1:1 map-1:1 1:1 mapping ping (960 x 1280 x 720 Native mapping centered. 540) display center centered. 1280 x 800
- 1280 x 800
 centered.

 16:9 Screen
 480i/p
 576i/p
 1080i/p
 720p
 PC

 4:3
 960 x 720 center
 960 x 720 center
 1280 x 720 center

 16:9
 1280 x 720 center
 1280 x 720 center
 1280 x 720 center

 LBX
 1280 x 960 center, then get the central 1280 x 720 image to display
 111 map 121

ping (960 x

540) display

1280 x 720

1280 x 720

center

1:1 mapping

centered.

Native



 16:9 or 16:10 depend on "Screen Type" setting.



mapping

centered



Edge Mask

Edge mask function removes the noise in a video image. Edge mask the image to remove video encoding noise on the edge of video source.

Zoom

 "Edge mask" and "Zoom" can't work at same time.

different setting of "Edge mask".

Each I/O has

▶ Press the ◀ to reduce the size of an image.

▶ Press the ▶ to magnify an image on the projection screen.

H Image Shift

Shift the projected image position horizontally.

V Image Shift

Shift the projected image position vertically.

V Keystone

Press the \blacktriangleleft or \blacktriangleright to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.



IMAGE	DISPLAY	SET UF	-	
DISPLAY 3D				
3D			Off	
3D Sync. Invert			Off	
Exit				
🔶 UpDown	🖌 Se	lect	Menu	Exit

Νοτε

- "IR" options may vary according to model.
- "3D Sync Invert" is only available when 3D is enabled and this mode 3D is for DLP link glass only.
- Compatible 3D source, 3D content and active shutter glasses are required for 3D viewing.

<u>3D</u>

DISPLAY | 3D

- Off: Select "Off" to turn 3D settings off for 3D images.
- DLP Link: Select "DLP Link" to use optimized settings for DLP Link 3D images.
- IR: Select "IR" to use optimized settings for IR-based 3D images.
- 3D Sync. Invert
- > Press the "On" to invert left and right frame contents.
- Press the "Off" for default frame contents.



SETUP



Language

Choose the multilingual OSD menu. Press \blacktriangleleft or \triangleright into the sub menu and then use the \blacktriangle or \blacktriangledown key to select your preferred language. Press "Enter" to finalize the selection.

SETUP Langu	age	
English	Norsk / Dansk	Magyar
Deutsch	Suomi	Čeština
Français		
Italiano	Romanian	ใหย
Español	繁體中文	Türkçe
Português	简体中文	
Polski	日本語	Tiếng Việt
Nederlands	한국어	Bahasa Indonesia
Svenska	Русский	Exit
🔶 UpDown	🕶 Select	Menu Exit



 "Screen Type" is for WXGA only.

Screen Type

Choose the screen type from 16:10 or 16:9.

Projection



Front-Desktop

This is the default selection. The image is projected straight on the screen.



👝 Rear-Desktop

When selected, the image will appear reversed.



Front-Ceiling

When selected, the image will turn upside down.



÷.

Rear-Ceiling are to be used with a translucent screen.




Rear-Ceiling

When selected, the image will appear reversed in upside down position.

Menu Location

Choose the menu location on the display screen.

Projector ID

ID definition can be set up by menu (range 0~99), and allow user control an individual projector by RS232. Refer to page 62~66 for the complete list of RS232 commands.

Mute

- Choose the "On" to turn mute on.
- Choose the "Off" to turn mute off.





Volume

- Press the to increase the volume.
- Volume adjustment can also control MIC Audio Input volume.

SETUP

The default audio settings are on the back panel of the projector. Use this option to reassign any of the Audio Inputs (1 or 2) to the current image source. Each Audio input can be assigned to more than one video source.

- Audio 1: VGA 1 and VGA 2.
- Audio 2: S-Video/Video.
- MIC: (No default video source)



SETUP | Signal (RGB)



 "Signal" is only supported in Analog VGA (RGB) signal.



Automatic

Automatically selects the signal. If you use this function, the Phase, frequency items are grayed out, and if Signal is not automatic, the phase, frequency items will appear for user to manually tune and saved in settings after that for next time projector turns off and on again.

Phase

Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use this function to correct it.

Frequency

Change the display data frequency to match the frequency of your computer's graphic card. Use this function only if the image appears to flicker vertically.

H. Position

- ▶ Press the ◀ to move the image left.
- ▶ Press the ▶ to move the image right.

V. Position

- ▶ Press the ◀ to move the image down.
- ▶ Press the ▶ to move the image up.



SETUP | Security

		OE		
IMAGE	DISPLAY	SET	UP	OPTIONS
SETUP SECU	JRITY			
Security				
Security Time	ər			
Change Passv	word			
Exit				
🛛 🔶 UpDown	🚽 Se	lect	Ment	Exit

Security

- On: Choose "On" to use security verification when the turning on the projector.
- Off: Choose "Off" to be able to switch on the projector without password verification.



Password default value is "1234" (first time).

Enter Security Code (4 digits)					
Incorrect security code.Re-enter again.(Last try)					
	REMOTE				

_	_				
	•				
	_				
_					
1	2	3			
4	5	6			
7	8	9			

Security Timer

Use this function to set the how long (Month/Day/Hour) the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

- First time:
 - 1. Press " \leftarrow " to set the password.
 - 2. The password has to be 4 digits.
 - 3. Use number button on the remote to enter your new password and then press "←" key to confirm your password.
- Change Password:
 - 1. Press "←" to input old password.
 - 2. Use number button to enter current password and then press "←" to confirm.
 - 3. Enter new password (4 digits in length) using the number buttons on the remote, then press "←" to confirm.
 - 4. Enter new password again and press "←" to confirm.

- If the incorrect password is entered 3 times, the projector will automatically shut down.
- If you have forgotten your password, please contact your local office for support.



SETUP | Advanced

		O			
IMAGE	DISPLAY	SET	TUP	ΟΡΤΙ	ONS
SETUP ADV.	ANCED				
Logo			Opto	ma	
Logo Capture					
Closed Captio	oning			f	
Exit					
🔶 UpDown	🖊 Se	lect	Men	Exit	

Logo

Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- Optoma: The default startup screen.
- Neutral: Logo is not displayed on startup screen.
- User: Use stored picture from "Logo Capture" function.

Logo Capture

Press to capture an image of the picture currently displayed on screen.

Closed Captioning

Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- Off: select "off" to turn off the closed captioning feature.
- CC1:CC1 language: American English.
- CC2:CC2 language (depending on the TV channel of the user):Spanish, French, Portuguese, German, Danish.



For successful logo capture, please ensure that the onscreen image does not exceed the projector's native resolution. (XGA:1024x768 or WXGA:1280x800).

SETUP | Network

IMAGE		SETU	_	OPTIC	NS
SETUP NE	TWORK				
Network Stat	e		isconr	nect	
DHCP			Off		
IP Address			2.168.0	0.100	
Subnet mask			55.255	.0.0	
Gateway			2.168.0).254	
DNS			255.2	55.255	
Apply					
Exit					
🔶 UpDown	🚽 Se	lect	Menu	Exit	

English

Network State

Display the network connection status.

DHCP

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

- On: Assign an IP address to the projector from an external DHCP server automatically.
- Off: Assign an IP address manually.

IP Address

Select an IP address.

Subnet Mask

Select subnet mask number.

<u>Gateway</u>

Select the default gateway of the network connected to the projector.

DNS

Select DNS number.

Apply

Press " " and then choose "Yes" to apply the selection.

How to use web browser to control your projector

 Turn on DHCP to allow the DHCP server to automatically assign an IP, or manually enter the required network information.

SETUP NETWORK	
Network State	Disconnect
DHCP	📢 off 🕨
IP Address	192.168.0.100
Subnet mask	255.255.0.0
Gateway	d 192.168.0.254 🕨
DNS	255.255.255.255
Apply	
Exit	

- Then choose apply and press "↓ " button to complete the configuration process.
- Open your web browser and type in from the OSD LAN screen then the web page will display as below:





When you used the projector IP address, you will can not link to your service server. Based on network web-page for the input-string in [tools] tab, the limitation for Input-Length is in the below list ("space" and the other punctuation key included):

Category	Item	Input-Length (characters)
	IP Address	15
Crestron Control	IP ID	2
	Port	5
	Projector Name	10
Projector	Location	9
	Assigned To	9
	DHCP (Enabled)	(N/A)
	IP Address	15
Network Configuration	Subnet Mask	15
Comgulation	Default Gateway	15
	DNS Server	15
	Enabled	(N/A)
User Password	New Password	15
	Confirm	15
	Enabled	(N/A)
Admin Password	New Password	15
	Confirm	15

					Tools	Info Contact IT
		-				
	Jpt	отс				
	_					
	Crestron C	Control		Projector		User Password
IP Address	192.168.0.2		Projector Name	EW762		Enabled
IP ID	6		Location	Location	New Password	
Port	41794		Assigned To	EW762	Confirm	
		Send		Send		Send
			DHCP	Enabled		
				192.168.0.100		Admin Password
			Subnet Mask	255.255.255.0		Enabled
			Default Gateway	192.168.0.254	New Password	
			DNS Server	192.168.0.1	Confirm	
				Send		Send



When making a direct connection from your computer to the projector

Step 1: Find an IP Address (192.168.0.100) from LAN function of projector.

192.168.0.100

- Step 2: Select apply and press "Enter" button to submit function or press "menu" key to exit.
- Step 3: To open Network Connections, click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections. Click the connection you want to configure, and then, under Network Tasks in , click Change settings of this connection.

IP Address

Step 4: On the General tab, under This connection uses the following items, click Internet Protocol (TCP/IP), and then click "Properties."



- Step 5: Click Use the following IP
 - address, and type in as below:
 - 1) IP address: 192.168.0.100
 - 2) Subnet mask: 255.255.255.0
 - 3) Default gateway:192.168.0.254



Step 6: To open Internet Options, click IE web browser, click Internet Options, click the **Connections** tab and click "LAN Settings..."



Step 7: The Local Area Network (LAN) Setting dialog box appears, In the Proxy Server area, cancel the Use a proxy server for your LAN check box., then click "OK" button twice.



Step 8: Open your IE and type in the IP address of 192.168.0.100 in the URL then press "Enter" key.



Crestron RoomView Control Tool

Crestron RoomView[™] provides a central monitoring station for 250+ control systems on a single Ethernet network (more are possible, the number depends on the combination of IP ID and IP address). Crestron RoomView monitors each projector, including projector's online status, system power, lamp life, network setting and hardware faults, plus any custom attribute as defined by the Administrator. The Administrator can add, delete, or edit room information, contact information and events, which are logged automatically by the software for all users. (Operation UI as following image)

1. Main Screen



2. Edit Room

Name: crestron room	Phone: e-Control Link: Browse
Location:	
IP Address: 192.168.0.101	Video Link:
IPID/IP Port: 03 • 41794	
DHCP Enabled	SSL
External Gateway	Usemame:
0.0.0.0	Password:
Comment	



 Crestron Room-View function support is dependent on models.





3. Edit Attribute

Reneral Alert Groups Contacts Attribute Properties	
Signal Name: Display Power	Off On Graphic:
Signal Type: Digital	
Join Number: 5 De	fault Max. Value: 1
Options	
Apply attribute to all rooms	Display on main view
Apply attribute to all contacts	Show on context menu Advanced
Record attribute changes to log	

4. Edit Event

eneral Rooms		
Event Properties		
Name: Display Off Warning		Enable this event
Type: Digital 🔍		Repeat event
Join: 9 🚽		
Schedule Start Date: 2010/ 9/ 2	Veekdavs	Weekends
,	Monday	Saturday
End Date: 2010/ 9/ 2 💌	✓ Tuesday	Sunday
Time: 0:00:00	Vednesday	
,	Thursday	
	Friday	

For more information, please visit http://www.crestron.com & www.crestron.com/getroomview.



OPTIONS

	PLAY SE	TUP	
OPTIONS			
Source Lock			
High Altitude			
Information Hide			
Keypad Lock			
Background Color		Red	
IR Receiver			
Advanced			
Lamp Settings			
Reset Dust Filter			
Reset			
🔶 UpDown	🖌 Select	Menu	Exit

Source Lock

- > On: The projector will only search current input connection.
- Off: The projector will search for other signals if the current input signal is lost.

High Altitude

When "On" is selected, the fans will spin faster. This feature is useful in high altitude areas where the air is thin.

Information Hide

- On: Choose "On" to hide the info message.
- Off: Choose "Off" to show the "searching" message.

Keypad Lock

When the keypad lock function is "On", the control panel will be locked however, the projector can be operated by the remote control. By selecting "Off", you will be able to reuse the control panel.

Background Color

Use this feature to display a "Black", "Red", "Blue", "Green" or "White", screen when no signal is available.

IR Receiver

- Front Receiver: Choose "On" to start the receiver. Choose "Off" to close the receiver.
- Top Receiver: Choose "On" to start the receiver. Choose "Off" to close the receiver.



With dust filter installed, High Altitude mode must be turned on. Dust filter is Optional and may not be required in some regions.



To turn off the keypad lock, press and hold "Enter" key on top of the projector for 5 seconds.

Reset Dust Filter

Choose "Yes" to show or "No" to hide the warning message when the changing filter message is displayed.

Reset

Choose "Yes" to return the display parameters on all menus to the factory default settings.



OPTIONS | Advanced



Direct Power On

Choose "On" to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the "**也**" key on the projector control panel or on the remote control.

Auto Power Off (min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).



Sleep Timer (min)

Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Power Mode (Standby)

- Eco.: Choose "Eco." to save power dissipation further < 1W.
- Active: Choose "Active" to return to normal standby and the VGA out port will be enabled.



OPTIONS | Lamp Settings



Lamp Hours

Display the projection time.

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp.



Brightness Mode

- STD: Choose "STD" to dim the projector lamp which will lower power consumption and extend the lamp life.
- BRIGHT: Choose "BRIGHT" to increase the brightness.
- Image AI: Choose "Image AI" to improve the contrast of the picture.

Lamp Reset

Reset the lamp hour counter after replacing the lamp.



When ambient temperature is over 35°C in operating, the projector will switch to STD automatically.



Troubleshooting

If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.

? No image appears on-screen

- Ensure all the cables and power connections are correctly and securely connected as described in the "Installation" section.
- Ensure all the pins of connectors are not bent or broken.
- Check if the projection lamp has been securely installed. Please refer to the "Replacing the lamp" section.
- Make sure you have removed the lens cap and the projector is switched on.
- Ensure that the "AV mute" feature is not turned on.

Partial, scrolling or incorrectly displayed image

- Press "Re-SYNC" on the remote.
- If you are using a PC:

For Windows 95, 98, 2000, XP, Windows 7:

- 1. Open the "My Computer" icon, the "Control Panel" folder, and then double click on the "Display" icon.
- 2. Select the "Settings" tab.
- 3. Verify that your display resolution setting is lower than or equal to UXGA (1600 × 1200).
- 4. Click on the "Advanced Properties" button.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

- Verify the resolution setting is lower than or equal to UXGA (1600 × 1200).
- 6. Select the "Change" button under the "Monitor" tab.

- Click on "Show all devices". Next, select "Standard monitor types" under the SP box; choose the resolution mode you need under the "Models" box.
- 8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 × 1200).
- If you are using a Notebook:
 - 1. First, follow the steps above to adjust resolution of the computer.
 - Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4]

Acer ⇔	[Fn]+[F5]	IBM/Lenovo ⇔	[Fn]+[F7]		
Asus ⇔	[Fn]+[F8]	HP/Compaq ⇔	[Fn]+[F4]		
Dell ⇔	[Fn]+[F8]	NEC ⇔	[Fn]+[F3]		
Gateway ⇔	[Fn]+[F4]	Toshiba ⇔	[Fn]+[F5]		
Mac Apple: System Preference ⇔ Display ⇔ Arrangement ⇔ Mirror display					

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.
- The screen of the Notebook or PowerBook computer is not displaying your presentation
- If you are using a Notebook PC Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's manual for detailed information.

Image is unstable or flickering

- Use "Phase" to correct it. See page 39 for more information.
- Change the monitor color setting on your computer.

Image has vertical flickering bar

- Use "Frequency" to make an adjustment. See page 39 for more information.
- Check and re-configure the display mode of your graphic card to make it compatible with the projector.



Image is out of focus

- Make sure the lens cap is removed.
- Adjust the Focus Ring on the projector lens.
- Make sure the projection screen is between the required distance. See page 17.

The image is stretched when displaying 16:9 DVD title

- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image when the projector display mode is set to 16:9 in the OSD.
- If you play 4:3 format DVD titles, please change the format to 4:3 in the projector OSD.
- If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:
- Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

Image is too small or too large

- Move the projector closer to or further from the screen.
- Press "Menu" button on the remote control or projector panel, go to "DISPLAY → Format" and try the different settings.

Image is reversed

Select "SETUP → Projection" from the OSD and adjust the projection direction.

The projector stops responding to all controls

- If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
- Check that "Keypad Lock" is not activated by trying to control the projector with the remote control.



Lamp burns out or makes a popping sound

▶ When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section on pages 57-58.

LED lighting message

Message	U POWER/STAND- BY LED	J Temp-LED	₩ Lamp-LED
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	0	0
Power on (Warming)	Flashing Green	0	0
Lamp lighting	Green	0	0
Power off (Cooling)	Flashing Green	0	0
Error (Over Temp.)	Flashing Amber	*	0
Error (Fan fail)	Flashing Amber	Flashing	0
Error (Lamp fail)	Flashing Amber	0	<u>*</u>

* POWER/STANDBY LED be ON when OSD appears, be OFF when OSD disappears.





On Screen Messages

Temperature warning:



Fan failed:



Lamp warning:



• Out of display range:



Filter warning:



If the remote control does not work

- Check the operating angle of the remote control is within ±15° both horizontally and vertically of one of the IR receivers on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (±0°) of the projector.
- Make sure the batteries are inserted correctly.
- Replace batteries if they are exhausted.



Replacing the lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message.



When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

A A CAUTION!

HIGH PRESSURE LAMP MAY EXPLODE IF IMPROPERLY HANDED. REFER TO LAMP REPLACEMENT INSTRUCTIONS. ATTENTION: Les lampes à haute pression peuvent exploser si elles sont mal utilisées. Confier l'entretien à une personne qualifiée.

Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. "Caution must be used to prevent any loose parts from falling out of projector."

Warning: Lamp compartment may be hot! Allow it to cool down before changing the lamp!

Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.





- The screws on the lamp cover and the lamp cannot be removed.
- The projector cannot be turned on if the lamp cover has not been placed back on the projector.
- Do not touch the glass area of the lamp. Hand oil can cause the lamp to shatter. Use a dry cloth to clean the lamp module if it was accidentally touched.



² Lamp Replacement Procedure:

- 1. Switch off the power to the projector by pressing the "U" button.
- 2. Allow the projector to cool down for at least 30 minutes.
- 3. Disconnect the power cord.
- 4. Unscrew the one screw on the cover. 1
- 5. Lift up and remove the cover. 2
- 6. Unscrew the three screws on the lamp module. 3
- 7. Lift up the lamp handle and remove the lamp module slowly and carefully. 4

To replace the lamp module, reverse the previous steps.

8. Turn on the projector and use "Lamp Reset" after the lamp module is replaced.

Lamp Reset: (i) Press "Menu" → (ii) Select "OPTIONS" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

Replacing and cleaning the dust filter

We recommend cleaning the dust filter after every 300 hours of use, clean it more often if the projector is used in a dusty environment.



If dust builds up on the filter is not cleaned, the projector will overheat and cause problems with the operation and shorten the life of the product.



When you see this message, please find following steps for cleaning procedure:



Cleaning the Dust Filter Procedure:

- 1. Switch off the power to the projector by pressing the "U" button.
- 2. Disconnect the power cord.
- 3. Unscrew the one screw on the cable cover. 1
- 4. Lift up and remove the cable cover. 2
- 5. Push the latch by the arrow direction. 3
- 6. Remove the dust filter slowly and carefully. 4
- 7. Clean or replace the dust filter. 5

To install the dust filter, reverse the previous steps.

8. Turn on the projector and use "Reset Dust Filter" after the dust filter is replaced.

Filter Reset: (i) Press "Menu" → (ii) Select "OPTIONS" → (iii) Select "Reset Dust Filter" → (iv) Select "Yes".



Compatibility Modes

Computer Compatibility

Mode	Resolution	V-Sync (Hz)		H-Syno	c (KHz)
wode	Resolution	Analog	Digital	Analog	Digital
VGA	640 × 350	70	70	31.50	31.50
VGA	640 × 350	85	85	37.90	37.90
VGA	640 × 400	85	85	37.90	37.90
VGA	640 × 480	60	60	31.50	31.50
VGA	640 × 480	67	67	-	-
VGA	640 × 480	72	72	37.90	37.90
VGA	640 × 480	75	75	37.50	37.50
VGA	720 × 400	70	70	31.50	31.50
VGA	720 × 400	85	85	37.90	37.90
SVGA	800 × 600	56	56	35.20	35.20
SVGA	800 × 600	60	60	37.90	37.90
SVGA	800 × 600	72	72	48.10	48.10
SVGA	800 × 600	75	75	46.90	46.90
SVGA	800 × 600	120	120	-	-
	832 × 624	75	75	-	-
XGA	1024 × 768	60	60	48.40	48.40
XGA	1024 × 768	70	70	56.50	56.50
XGA	1024 × 768	75	75	60.00	60.00
XGA	1024 × 768	120	120	-	-
	1152 × 870	75	75	-	-
WXGA	1280 × 800	60	60	49.68	49.64
WSXGA+(*)	1680 × 1050	60	60	65.00	65.00
SXGA	1280 × 1024	60	60	63.98	63.98
UXGA	1600 × 1200	60	60	75.00	75.00
HD	1280 × 720	60	60	45.00	45.00
HD	1280 × 720	120	120	-	-
HD	1920 × 1080	30	30	33.80	33.80



- For widescreen resolution (WXGA), the compatibility support is dependent on Notebook/PC models.
- 120Hz input signals may be dependent on graphics cards support.

Please note that using resolutions other than native 1024 x 768 (XGA model), 1280 x 800 (WXGA model) may result in some loss of image clarity.

 For WXGA model only.

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Mode	Resolution	V-Sync (Hz)	H-Sync (KHz)
MAC LC 13"	640 × 480	66.66	34.98
MAC II 13"	640 × 480	66.68	35.00
MAC 16"	832 × 624	74.55	49.73
MAC 19"	1024 × 768	75	60.24
MAC	1152 × 870	75.06	68.68
MAC G4	640 × 480	60	31.35
i MAC DV	1024 × 768	75	60.00
i MAC DV	1152 × 870	75	68.49

Computer Compatibility

Video Compatibility

NTSC	M (3.58MHz), 4.43 MHz
PAL	B, D, G, H, I, M, N
SECAM	B, D, G, K, K1, L
SDTV	480i/p, 576i/p,
HDTV	720p@50Hz/60Hz, 1080i@50Hz/60Hz, 1080p@24Hz/50Hz/60Hz





RS232 Commands and Protocol Function List

RS232 Pin Assignments





 RS232 shell is grounded.

Pin no.	Spec. (from projector side)
1	TXD
2	RXD
3	GND



RS232 Protocol Function List



- 1. There is a <CR> after all ASCII commands.
- 2. 0D is the HEX code for <CR> in ASCII code.

Baud Rate : 9600 Data Bits: 8 Parity: None Stop Bits: 1 Flow Control : None UART16550 FIFO: Disable Projector Return (Pass): P Projector Return (Fail): F XX=00-99, projector's ID, XX=00 is for all projectors

22 ASCIL Cede	HEX Code	Function		Decayintian
32 ASCII Code	HEA CODE	Function		Description
XX00 1	7E 30 30 30 30 20 31 0D	Power ON		
-XX00 0 -XX00 1 ~nnnn	7E 30 30 30 30 20 30 0D	Power OFF		
XX00 I ~nnnn XX01 I	7E 30 30 30 30 20 31 20 a 0D 7E 30 30 30 31 20 31 0D	Power ON with Password Resync		~nnnn = ~0000 (a=7E 30 30 30 30) - ~9999(a=7E 39 39 39 39)
XX02 1	7E 30 30 30 30 32 20 31 0D	AV Mute	On	
XX02 0	7E 30 30 30 32 20 31 0D 7E 30 30 30 32 20 30 0D	Av Mule	Off	
XX02 0 XX03 1	7E 30 30 30 32 20 30 0D 7E 30 30 30 33 20 31 0D	Mute	On	
XX03 0	7E 30 30 30 33 20 30 0D	witte	Off	
XX04 1	7E 30 30 30 34 20 31 0D	Freeze	011	
XX04 0	7E 30 30 30 34 20 30 0D	Unfreeze		
XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus		
XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus		
XX07 1	7E 30 30 30 37 20 31 0D	Up (Pan under zoom)		
XX08 1	7E 30 30 30 38 20 31 0D	Down (Pan under zoom)		
XX09 1	7E 30 30 30 39 20 31 0D	Left (Pan under zoom)		
XX10 1	7E 30 30 31 30 20 31 0D	Right (Pan under zoom)		
XX12 1	7E 30 30 31 32 20 31 0D	Direct Source Command	HDMI	
XX12 5	7E 30 30 31 32 20 35 0D		VGA 1	
XX12 6	7E 30 30 31 32 20 36 0D		VGA 2	
XX12 9	7E 30 30 31 32 20 39 0D		S-Video	
XX12 10	7E 30 30 31 32 20 31 30 0D		Video	
XX12 11	7E 30 30 31 32 20 31 31 0D		Flash Drive	
XX12 12	7E 30 30 31 32 20 31 32 0D		Presenter	
XX12 13	7E 30 30 31 32 20 31 33 0D		USB Display	
XX20 1	7E 30 30 32 30 20 31 0D	Display Mode	Presentation	
XX20 2	7E 30 30 32 30 20 32 0D		Bright	
XX20 3	7E 30 30 32 30 20 33 0D		Movie	
XX20 4	7E 30 30 32 30 20 34 0D		sRGB	
XX20 5	7E 30 30 32 30 20 35 0D		User	
XX20 7	7E 30 30 32 30 20 37 0D		Blackboard	
XX20 8	7E 30 30 32 30 20 38 0D		Classroom	
XX20 9	7E 30 30 32 30 20 39 0D		3D	
XX21 n	7E 30 30 32 31 20 a 0D	Brightness		n = 0 (a=30) ~ 100 (a=31 30 30)
XX22 n	7E 30 30 32 32 20 a 0D	Contrast		n = 0 (a=30) ~ 100 (a=31 30 30)
XX23 n	7E 30 30 32 33 20 a 0D	Sharpness		n = 0 (a=30) ~ 31 (a=33 31)
XX24 n	7E 30 30 32 34 20 a 0D	Color	Red Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
XX25 n	7E 30 30 32 35 20 a 0D		Green Gain	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX26 n	7E 30 30 32 36 20 a 0D		Blue Gain	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX27 n	7E 30 30 32 37 20 a 0D		Red Bias	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX28 n	7E 30 30 32 38 20 a 0D		Green Bias	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX29 n	7E 30 30 32 39 20 a 0D		Blue Bias	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX30 n XX31 n	7E 30 30 33 30 20 a 0D		Cyan	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX32 n	7E 30 30 33 31 20 a 0D 7E 30 30 33 32 20 a 0D		Yellow Magenta	$n = -50 (a=2D 35 30) \sim 50 (a=35 30)$ $n = -50 (a=2D 35 30) \sim 50 (a=35 30)$
XX33 1	7E 30 30 33 33 20 31 0D		Reset	$n = -50 (a - 2D 55 50) \sim 50 (a - 55 50)$
XX34 n		BrilliantColor	Reset	n = 0 (a=30) ~ 10 (a=31 30)
XX34 n XX35 1	7E 30 30 33 34 20 a 0D 7E 30 30 33 35 20 31 0D	Degamma	Film	$n = 0 (a = 50) \approx 10 (a = 51.50)$
XX35 2	7E 30 30 33 35 20 31 0D 7E 30 30 33 35 20 32 0D	Degannia	Video	
XX35 3	7E 30 30 33 35 20 32 0D 7E 30 30 33 35 20 33 0D		Graphics	
XX35 4	7E 30 30 33 35 20 34 0D		PC	
XX36 1	7E 30 30 33 36 20 31 0D	Color Temp.	Warm	
XX36 2	7E 30 30 33 36 20 32 0D	comp.	Medium	
CX36 3	7E 30 30 33 36 20 33 0D		Cold	
X37 1	7E 30 30 33 37 20 31 0D	Color Space	Auto	* HDMI w/o Color Space item
X37 2	7E 30 30 33 37 20 32 0D	control opace	RGB	the start of the s
XX37 3	7E 30 30 33 37 20 33 0D		YUV	
XX395	7E 30 30 33 39 20 35 0D	Input Source	VGA1	
XX396	7E 30 30 33 39 20 35 0D		VGA2	
XX399	7E 30 30 33 39 20 39 0D		S-Video	
XX39 10	7E 30 30 33 39 20 31 30 0D		Video	
XX391	7E 30 30 33 39 20 31 0D		HDMI	



~XX39 11	7E 30 30 33 39 20 31 31 0D		Flash Drive	
~XX39 12	7E 30 30 33 39 20 31 32 0D		Presenter(LAN+Wire	less)
~XX39 13	7E 30 30 33 39 20 31 33 0D	-	USB Display	
~XX44 n ~XX45 n	7E 30 30 34 34 20 a 0D 7E 30 30 34 35 20 a 0D	Tint Color (Saturation)		$\begin{array}{l} n = 0 \ (a{=}30) \sim 100 \ (a{=}31 \ 30 \ 30) \\ n = 0 \ (a{=}30) \sim 100 \ (a{=}31 \ 30 \ 30) \end{array}$
				n o(a 50)* 100 (a 51 50 50)
(EW675UT/UTi		Format	4.2	
~XX60 1 ~XX60 2	7E 30 30 36 30 20 31 0D 7E 30 30 36 30 20 32 0D	Format	4:3 16:9/16:10	
~XX60 2 ~XX60 5	7E 30 30 36 30 20 32 0D 7E 30 30 36 30 20 35 0D		LBX	
~XX60 5 ~XX60 6	7E 30 30 36 30 20 35 0D 7E 30 30 36 30 20 36 0D		Native	
~XX60 0	7E 30 30 36 30 20 37 0D		AUTO	
(EX665UT/UTi ~XX60 1	only) 7E 30 30 36 30 20 31 0D	Format	4:3	
~XX60 2	7E 30 30 36 30 20 31 0D 7E 30 30 36 30 20 32 0D	Format	4.5 16:9-I	
~XX60 3	7E 30 30 36 30 20 35 0D		16:9-II	
~XX60 6	7E 30 30 36 30 20 36 0D		Native	
~XX60 7	7E 30 30 36 30 20 37 0D		AUTO	
~XX61 n	7E 30 30 36 31 20 a 0D	E1		- 0 (- 20) - 10(- 21 20)
		Edge Mask		n = 0 (a=30) ~ 10(a=31 30) n = -5 (n=20 25) ~ 25 (n=22 25)
~XX62 n ~XX63 n	7E 30 30 36 32 20 a 0D 7E 30 30 36 33 20 a 0D	Zoom H Image Shift		$n = -5 (a=2D 35) \sim 25 (a=32 35)$ $n = -50 (a=2D 35 30) \sim +50 (a=35 30)$
~XX64 n	7E 30 30 36 34 20 a 0D	V Image Shift		$n = -50 (a=2D \ 55 \ 50) \sim +50 (a=35 \ 50)$ $n = -50 (a=2D \ 55 \ 50) \sim +50 (a=35 \ 50)$
~XX66 n	7E 30 30 36 36 20 a 0D	V Keystone		$n = -40 (a=2D 34 30) \sim 40 (a=34 30)$
~XX230 1	7E 30 30 32 33 30 20 31 0D	3D Mode	On	
~XX230 0	7E 30 30 32 33 30 20 30 0D	3D Mode	Off	
~XX2311	7E 30 30 32 33 31 20 31 0D	3D Sync Invert	On	
~XX231 0	7E 30 30 32 33 31 20 30 0D	3D Sync Invert	Off	
~XX70 1	7E 30 30 37 30 20 31 0D	Language	English	
~XX70 2	7E 30 30 37 30 20 32 0D		German	
~XX70 3	7E 30 30 37 30 20 33 0D		French	
~XX70 4	7E 30 30 37 30 20 34 0D		Italian	
~XX70 5	7E 30 30 37 30 20 35 0D		Spanish	
~XX70 6	7E 30 30 37 30 20 36 0D		Portuguese	
~XX70 7	7E 30 30 37 30 20 37 0D		Polish	
~XX70 8	7E 30 30 37 30 20 38 0D		Dutch	
~XX70 9	7E 30 30 37 30 20 39 0D		Swedish	
~XX70 10 ~XX70 11	7E 30 30 37 30 20 31 30 0D		Norwegian/Danish Finnish	
~XX70 11 ~XX70 12	7E 30 30 37 30 20 31 31 0D 7E 30 30 37 30 20 31 32 0D		Greek	
~XX70 12 ~XX70 13	7E 30 30 37 30 20 31 32 0D		Traditional Chinese	
~XX70 13 ~XX70 14	7E 30 30 37 30 20 31 33 0D 7E 30 30 37 30 20 31 34 0D		Simplified Chinese	
~XX70 14 ~XX70 15	7E 30 30 37 30 20 31 34 0D		Japanese	
~XX70 16	7E 30 30 37 30 20 31 36 0D		Korean	
~XX70 17	7E 30 30 37 30 20 31 37 0D		Russian	
~XX70 18	7E 30 30 37 30 20 31 38 0D		Hungarian	
~XX70 19	7E 30 30 37 30 20 31 39 0D		Czechoslovak	
~XX70 20	7E 30 30 37 30 20 32 30 0D		Arabic	
~XX70 21	7E 30 30 37 30 20 32 31 0D		Thai	
~XX70 22	7E 30 30 37 30 20 32 32 0D		Turkish	
~XX70 23	7E 30 30 37 30 20 32 33 0D		Farsi	
~XX70 25	7E 30 30 37 30 20 32 35 0D		Vietnamese	
~XX70 26	7E 30 30 37 30 20 32 36 0D		Romanian	
~XX70 27 ~XX71 1	7E 30 30 37 30 20 32 37 0D 7E 30 30 37 31 20 31 0D	Designation	Indonesia	
		Projection	Front-Desktop	
~XX71 2 ~XX71 3	7E 30 30 37 31 20 32 0D 7E 30 30 37 31 20 33 0D		Rear-Desktop Front-Ceiling	
~XX713 ~XX714	7E 30 30 37 31 20 33 0D 7E 30 30 37 31 20 34 0D		Rear-Ceiling	
~XX72 1	7E 30 30 37 32 20 31 0D	Menu Location	Top Left	
~XX72 2	7E 30 30 37 32 20 32 0D		Top Right	
~XX72 3	7E 30 30 37 32 20 33 0D		Centre	
~XX72 4	7E 30 30 37 32 20 34 0D		Bottom Left	
~XX72 5	7E 30 30 37 32 20 35 0D		Bottom Right	
(EW675UT/UTi	i only)			
~XX90 1	7E 30 30 39 31 20 31 0D	Screen Type	16:10	
~XX90 0	7E 30 30 39 31 20 30 0D		16:9	
~XX91 1	7E 30 30 39 31 20 31 0D	Signal		0-
		Signal	Automatic	On Off
~XX91 0 ~XX73 n	7E 30 30 39 31 20 30 0D 7E 30 30 37 33 20 a 0D		Automatic Frequency	Off n = -5 (a=2D 35) ~ 5 (a=35) By signal
~XX/3 n ~XX74 n	7E 30 30 37 33 20 a 0D 7E 30 30 37 34 20 a 0D		Prequency Phase	n = -5 ($a=2D$ 35) ~ 5 ($a=35$) By signal n = 0 ($a=30$) ~ 31 ($a=33$ 31) By signal
~XX /4 n ~XX75 n	7E 30 30 37 34 20 a 0D 7E 30 30 37 35 20 a 0D		H. Position	n = 0 (a=50) ~ 51 (a=55 51) By signal n = -5 (a=2D 35) ~ 5 (a=35) By timing
~XX76 n	7E 30 30 37 36 20 a 0D		V. Position	$n = -5 (a=2D 35) \sim 5 (a=35)$ By timing $n = -5 (a=2D 35) \sim 5 (a=35)$ By timing
~XX77 n	7E 30 30 37 37 20 aabbcc 0D	Security	Security Timer	Month/Day/Hour $n = mm/dd/hh$
100,7 11	712 30 30 37 37 20 anotee of	Security	Scenty Tink	$mm = 00 (aa=30 30) \sim 12 (aa=31 32)$ dd = 00 (bb=30 30) ~ 30 (bb=33 30)
XX70 .	75 30 30 37 30 20 31 05		G	hh = $00 (cc=30 \ 30) \sim 24 (cc=32 \ 34)$
~XX78 1	7E 30 30 37 38 20 31 0D		Security	On Concernent of the second se
~XX78 0 ~XX79 n	7E 30 30 37 38 20 32 0D	De la composición de la		Off (0/2 for backward compatible)
	7E 30 30 37 39 20 a 0D	Projector ID	0	n = 00 (a=30 30) ~ 99 (a=39 39)
~XX /9 n ~XX80 1 ~XX80 0	7E 30 30 38 30 20 31 0D 7E 30 30 38 30 20 30 0D	Mute	On Off	



~XX81 n	7E 30 30 38 31 20 a 0D	Volume		n = 0 (a=30) ~ 20 (a=32 30)
~XX82.1	7E 30 30 38 32 20 31 0D		Ontonio	n 0 (a 50) · 20 (a 52 50)
		Logo	Optoma	
~XX82 2	7E 30 30 38 32 20 32 0D		User	
~XX83 1	7E 30 30 38 33 20 31 0D	Logo Capture		
~XX88 0	7E 30 30 38 38 20 30 0D	Closed Captioning	Off	
~XX88 1	7E 30 30 38 38 20 31 0D		cc l	
~XX88 2	7E 30 30 38 38 20 32 0D		cc2	
~XX1001	7E 30 30 31 30 30 20 31 0D	Source Lock	On	
		Source Lock		
~XX100 0	7E 30 30 31 30 30 20 30 0D		Off	
~XX100 3	7E 30 30 31 30 30 20 33 0D	Next Source		
~XX101 1	7E 30 30 31 30 31 20 31 0D	High Altitude	On	
~XX101 0	7E 30 30 31 30 31 20 30 0D		Off	
~XX102 1	7E 30 30 31 30 32 20 31 0D	Information Hide	On	
~XX102 0	7E 30 30 31 30 32 20 30 0D		Off	
~XX103 1	7E 30 30 31 30 33 20 31 0D	Keypad Lock	On	
~XX103 0	7E 30 30 31 30 33 20 30 0D	reeypad Look	Off	
~XX105.0	7E 30 30 31 30 33 20 30 0D	Dealersound Calar		
		Background Color	Blue	
~XX104 2	7E 30 30 31 30 34 20 32 0D		Black	
~XX104 3	7E 30 30 31 30 34 20 33 0D		Red	
~XX104 4	7E 30 30 31 30 34 20 34 0D		Green	
~XX104 5	7E 30 30 31 30 34 20 35 0D		White	
~XX105 1	7E 30 30 31 30 35 20 31 0D	Advanced	Direct Power On	On
~XX105 0	7E 30 30 31 30 35 20 30 0D			Off
~XX106 n	7E 30 30 31 30 36 20 a 0D		Auto Power Off (min)	n = 0 (a=30) ~ 180 (a=31 38 30), step=1
~XX100 n ~XX107 n				
	7E 30 30 31 30 37 20 a 0D		Sleep Timer (min)	$n = 0 (a=30) \sim 995 (a=39 39 35)$, step=5
~XX114 1	7E 30 30 31 31 34 20 31 0D		Power Mode(Standby)	Eco.(<=1W)
~XX114 0	7E 30 30 31 31 34 20 30 0D			Active
~XX109 1	7E 30 30 31 30 39 20 31 0D		Lamp Reminder	On
~XX109 0	7E 30 30 31 30 39 20 30 0D			Off
~XX110 0	7E 30 30 31 31 30 20 31 0D		Brightness Mode	STD
~XX110.1	7E 30 30 31 31 30 20 30 0D		5	Bright
~XX110 2	7E 30 30 31 31 30 20 30 0D			ImageAI
~XX1111	7E 30 30 31 31 30 20 30 0D		Lamp Reset	Yes
			Lamp Reset	
~XX111 0	7E 30 30 31 31 31 20 30 0D			No
~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset		Yes
~XX120 0	7E 30 30 31 32 30 20 30 0D	Point Blank	Interactive	Off
~XX120 1	7E 30 30 31 32 30 20 31 0D			On
~XX121 0	7E 30 30 31 32 31 20 30 0D		Dual Pen	Off
~XX121 0	7E 30 30 31 32 31 20 31 0D			On
~XX122 0	7E 30 30 31 32 32 20 30 0D		Pointer Motion	Draw
			Pointer Wotton	
~XX122 1	7E 30 30 31 32 32 20 31 0D			Normal
~XX122 2	7E 30 30 31 32 32 20 32 0D			Stable
~XX123 0	7E 30 30 31 32 33 20 30 0D		Click Speed	Fast
~XX123 1	7E 30 30 31 32 33 20 31 0D			Medium
~XX123 2	7E 30 30 31 32 33 20 32 0D			Slow
~XX124 0	7E 30 30 31 32 34 20 30 0D		Set Function	Pointer Motion
~XX124 1	7E 30 30 31 32 34 20 31 0D		Bet I uneuon	PowerPoint Annotation
				Switch Window
~XX124 2	7E 30 30 31 32 34 20 32 0D			
~XX124 2 ~XX124 3	7E 30 30 31 32 34 20 33 0D			Esc
~XX124 2 ~XX124 3 ~XX124 4	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D			Show Desktop
~XX124 2 ~XX124 3	7E 30 30 31 32 34 20 33 0D			
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 5	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D			Show Desktop Open Windows Explorer
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 4 ~XX124 5 ~XX124 6	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 36 0D			Show Desktop Open Windows Explorer Middle Click
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 5 ~XX124 6 ~XX124 7	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 36 0D 7E 30 30 31 32 34 20 37 0D			Show Desktop Open Windows Explorer Middle Click Double Click
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 5 ~XX124 6 ~XX124 7 ~XX124 8	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 36 0D 7E 30 30 31 22 34 20 37 0D 7E 30 30 31 32 34 20 38 0D		Channel	Show Desktop Open Windows Explorer Middle Click Double Click Disable
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 5 ~XX124 6 ~XX124 7	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 36 0D 7E 30 30 31 32 34 20 37 0D		Channel	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0:30), Auto
~XX124 2 ~XX124 3 ~XX124 4 ~XX124 5 ~XX124 5 ~XX124 6 ~XX124 7 ~XX124 8 ~XX125 n	7E 30 30 31 32 34 20 33 0D 7E 30 30 31 32 34 20 34 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 35 0D 7E 30 30 31 32 34 20 36 0D 7E 30 30 31 32 34 20 37 0D 7E 30 30 31 32 34 20 38 0D 7E 30 30 31 32 34 20 38 0D 7E 30 30 31 32 35 20 a			Show Desktop Open Windows Explorer Middle Click Double Click Disable
-XX124 2 -XX124 3 -XX124 4 -XX124 5 -XX124 6 -XX124 6 -XX124 6 -XX124 7 -XX124 8 -XX125 n -XX125 n	$\begin{array}{c} TE \; 30\; 30\; 31\; 32\; 34\; 20\; 33\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 35\; 20\; a\; 0D\\ TE\; 30\; 30\; 31\; 32\; 35\; 20\; a\; 0D\\ TE\; 30\; 30\; 31\; 32\; 36\; 20\; 31\; 0D\\ \end{array}$		Channel	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0:30), Auto
-XX124 2 -XX124 3 -XX124 4 -XX124 5 -XX124 5 -XX124 6 -XX124 7 -XX124 8 -XX125 n -XX126 1 -XX126 1 -XX127 1	$\begin{array}{c} TE 303031323420330D\\ TE303031323420340D\\ TE303031323420350D\\ TE303031323420350D\\ TE303031323420370D\\ TE303031323420380D\\ TE303031323420380D\\ TE303031323420380D\\ TE303031323420380D\\ TE303031323520a$	Reset Dust Filter	Information	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1-30 (a:0x31 ~ 0x33 0x30), Channel number
-XX124 2 -XX124 3 -XX124 4 -XX124 4 -XX124 5 -XX124 7 -XX124 7 -XX124 7 -XX125 n -XX125 n -XX125 n	$\begin{array}{c} TE \; 30\; 30\; 31\; 32\; 34\; 20\; 33\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 35\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 35\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 37\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 20\; 30\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 23\; 00\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 23\; 00\; 00\\ \end{array}$	Reset Dust Filter IR Receiver		Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1-30 (a:0x31 ~ 0x33 0x30), Channel number
-XX124 2 -XX124 2 -XX124 4 -XX124 4 -XX124 5 -XX124 6 -XX124 7 -XX124 8 -XX125 n -XX126 1 -XX127 1 -XX128 0 -XX128 1	$\begin{array}{c} TE \; 30\; 30\; 31\; 32\; 34\; 20\; 33\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 37\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 37\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 0D\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 30\; 10D\\ TE\; 30\; 30\; 31\; 32\; 38\; 20\; 31\; 0D\\ TE\; 30\; 30\; 31\; 32\; 38\; 20\; 31\; 0D\\ TE\; 30\; 30\; 31\; 32\; 38\; 20\; 31\; 0D\\ \end{array}$		Information Top Receiver	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1-30 (a:0x31 ~ 0x33 0x30), Channel number Off On
-XX124 2 -XX124 3 -XX124 4 -XX124 4 -XX124 5 -XX124 7 -XX124 7 -XX124 7 -XX125 n -XX125 n -XX125 n	$\begin{array}{c} TE \; 30\; 30\; 31\; 32\; 34\; 20\; 33\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 35\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 35\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 36\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 37\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 38\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 34\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 34\; 20\; 31\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 20\; 30\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 23\; 00\; 00\\ TE\; 30\; 30\; 31\; 32\; 33\; 23\; 00\; 00\\ \end{array}$		Information	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1-30 (a:0x31 ~ 0x33 0x30), Channel number
-XX124 2 -XX124 2 -XX124 4 -XX124 4 -XX124 5 -XX124 6 -XX124 7 -XX124 8 -XX125 n -XX126 1 -XX127 1 -XX128 0 -XX128 1	$\begin{array}{c} TE & 30 & 30 & 31 & 32 & 34 & 20 & 33 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 34 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 35 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 35 & 20 & a & 0D\\ TE & 30 & 30 & 31 & 32 & 35 & 20 & a & 0D\\ TE & 30 & 30 & 31 & 32 & 35 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 35 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ \end{array}$		Information Top Receiver	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1-30 (a:0x31 ~ 0x33 0x30), Channel number Off On
-XX124 2 -XX124 3 -XX124 4 -XX124 4 -XX124 6 -XX124 6 -XX124 7 -XX124 8 -XX125 n -XX125 n -XX125 n -XX127 1 -XX128 0 -XX128 0 -XX129 1	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 36 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 31 0D\\ TE 30 30 31 32 35 20 31 0D\\ TE 30 30 31 32 38 20 31 0D\\ TE 30 30 31 32 38 20 31 0D\\ TE 30 30 31 32 38 20 31 0D\\ TE 30 30 31 32 38 20 31 0D\\ TE 30 30 31 32 39 20 31 0D\\ TE 30 30 31 32 39 20 31 0D\\ \end{array}$	IR Receiver	Information Top Receiver Front Receiver	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1~30 (a:0x31 ~ 0x33 0x30), Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 4 XX124 6 XX124 7 XX124 7 XX125 n XX125 1 XX125 1 XX128 1 XX128 1 XX129 1 XX129 1 XX129 1 XX129 1	$\begin{array}{c} TE & 30 & 30 & 31 & 32 & 34 & 20 & 33 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 34 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 35 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 38 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 38 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 39 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 39 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 33 & 30 & 20 & 30 & 0D \end{array}$		Information Top Receiver Front Receiver Default	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1~30 (a:0x31 ~ 0x33 0x30), Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 5 XX124 6 XX124 6 XX124 7 XX126 1 XX127 1 XX128 1 XX128 1 XX129 0 XX129 1 XX129 1 XX130 1	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 33 30 20 30 0D\\ TE 30 30 31 33 31 20 31 0D\\ \end{array}$	IR Receiver	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1~30 (a:0x31 ~ 0x33 0x30), Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 4 XX124 6 XX124 7 XX124 7 XX125 n XX125 1 XX125 1 XX128 1 XX128 1 XX129 1 XX129 1 XX129 1 XX129 1	$\begin{array}{c} TE & 30 & 30 & 31 & 32 & 34 & 20 & 33 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 34 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 35 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 37 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 38 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 38 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 34 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 38 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 39 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 32 & 39 & 20 & 30 & 0D\\ TE & 30 & 30 & 31 & 33 & 30 & 20 & 30 & 0D \end{array}$	IR Receiver	Information Top Receiver Front Receiver Default	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1~30 (a:0x31 ~ 0x33 0x30), Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 5 XX124 6 XX124 6 XX126 1 XX127 1 XX127 1 XX128 1 XX128 0 XX129 0 XX129 0 XX130 0 XX130 1 XX130 1	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 31 0D\\ TE 30 30 31 33 39 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 30 30 30 30 30 30 30 30 30 30 30$	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 5 XX124 6 XX124 6 XX124 7 XX126 1 XX127 1 XX128 1 XX128 1 XX129 0 XX129 1 XX129 1 XX130 1	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 33 31 20 31 0D\\ \end{array}$	IR Receiver	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30), Auto n=1~30 (a:0x31 ~ 0x33 0x30), Channel number Off On Off
XX124 2 XX124 3 XX124 4 XX124 5 XX124 6 XX124 6 XX126 1 XX127 1 XX127 1 XX128 1 XX128 0 XX129 0 XX129 0 XX130 0 XX130 1 XX130 1	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 31 0D\\ TE 30 30 31 32 39 20 31 0D\\ TE 30 30 31 33 39 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 0D\\ TE 30 30 31 33 31 20 30 30 30 30 30 30 30 30 30 30 30 30 30$	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 5 X124 6 X124 6 X124 7 X124 7 X126 1 X125 n X125 n X128 0 X128 0 X129 0 X129 0 X129 0 X130 0 X130 2 X130 2	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 36 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 33 28 20 30 0D\\ TE 30 30 31 33 32 92 03 0D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 30 0D\\ TE 30 30 31 30 0D\\ TE 30 30 31 30 0D\\ TE 30 30 30 30 30 0D\\ TE 30 30 30 30 30 0D\\ TE 30 30 30 0D\\ TE 30 30 00 0D\\ TE 30 00 00 0D\\ TE 30 00 00 0D\\ TE 30 00 00 0D\\ $	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 5 X124 6 X124 6 X124 7 X124 7 X126 1 X125 n X125 n X128 0 X128 0 X129 0 X129 0 X129 0 X130 0 X130 0 X130 0 X130 1 X120 n X120 n	TE 30 30 31 32 34 20 33 0D TE 30 30 31 32 34 20 34 0D TE 30 30 31 32 34 20 35 0D TE 30 30 31 32 34 20 35 0D TE 30 30 31 32 34 20 36 0D TE 30 30 31 32 34 20 37 0D TE 30 30 31 32 34 20 38 0D TE 30 30 31 32 35 20 a 0D TE 30 30 31 32 38 20 30 0D TE 30 30 31 32 38 20 30 0D TE 30 30 31 32 39 20 30 0D TE 30 30 31 32 39 20 30 0D TE 30 30 31 33 32 92 20 30 0D TE 30 30 31 33 32 20 20 0D TE 30 30 31 33 32 20 0D TE 30 30 31 33 32 20 30 0D TE 30 30 31 33 32 20 30 0D TE 30 30 31 33 32 20 32 0D TE 30 30 31 33 32 20 32 0D TE 30 30 32 30 30 20 n 0D TE 30 30 32 30 30 20 n 0D	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1 AUDIO2	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 5 X124 6 X124 6 X124 7 X124 7 X126 1 X125 n X125 n X128 0 X128 0 X129 0 X129 0 X129 0 X130 0 X130 2 X130 2	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 36 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 32 39 20 30 0D\\ TE 30 30 31 33 28 20 30 0D\\ TE 30 30 31 33 32 92 03 0D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 30 0D\\ TE 30 30 31 30 0D\\ TE 30 30 31 30 0D\\ TE 30 30 30 30 30 0D\\ TE 30 30 30 30 30 0D\\ TE 30 30 30 0D\\ TE 30 30 00 0D\\ TE 30 00 00 0D\\ TE 30 00 00 0D\\ TE 30 00 00 0D\\ $	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 5 X124 6 X124 6 X124 6 X124 7 X124 7 X126 1 X127 1 X127 1 X128 0 X128 0 X128 0 X129 0 X129 0 X130 0 X130 0 X130 1 XX130 1 XX130 1 XX140 1	TE 30 30 31 32 34 20 33 0D TE 30 30 31 32 34 20 34 0D TE 30 30 31 32 34 20 35 0D TE 30 30 31 32 34 20 35 0D TE 30 30 31 32 34 20 36 0D TE 30 30 31 32 34 20 37 0D TE 30 30 31 32 34 20 38 0D TE 30 30 31 32 35 20 a 0D TE 30 30 31 32 38 20 30 0D TE 30 30 31 32 38 20 30 0D TE 30 30 31 32 39 20 30 0D TE 30 30 31 32 39 20 30 0D TE 30 30 31 33 32 92 20 30 0D TE 30 30 31 33 32 20 20 0D TE 30 30 31 33 32 20 0D TE 30 30 31 33 32 20 30 0D TE 30 30 31 33 32 20 30 0D TE 30 30 31 33 32 20 32 0D TE 30 30 31 33 32 20 32 0D TE 30 30 32 30 30 20 n 0D TE 30 30 32 30 30 20 n 0D	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1 AUDIO2 Power	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 4 X124 5 X124 7 X124 7 X124 7 X124 7 X128 1 X128 1 X128 1 X128 1 X129 1 X129 1 X130 0 X130 1 X130 2 X140 1 X140 1 X140 3	$\begin{array}{r} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 33 32 92 03 0D\\ TE 30 30 31 33 30 20 30 0D\\ TE 30 30 31 33 30 20 30 0D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 30 20 00 D\\ TE 30 30 31 33 30 20 00 D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 32 20 30 0D\\ TE 30 30 31 33 34 20 20 31 0D\\ TE 30 30 31 34 30 20 31 0D\\ TE 30 30 31 34 30 20 31 0D\\ TE 30 30 31 34 30 20 31 0D\\ TE 30 30 31 34 30 20 31 0D\\ \end{array}$	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1 AUDIO2 Power Mouse Up	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
X124 2 X124 3 X124 4 X124 5 X124 6 X124 6 X124 6 X124 7 X124 7 X126 1 X127 1 X127 1 X128 0 X128 0 X129 0 X129 0 X130 0 X130 1 X130 1 X130 1 X140 1 XX140 1 XX140 4	$\begin{array}{c} TE 30 30 31 32 34 20 33 0D\\ TE 30 30 31 32 34 20 34 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 35 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 37 0D\\ TE 30 30 31 32 34 20 38 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 35 20 a 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 32 38 20 30 0D\\ TE 30 30 31 33 32 02 30 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 31 0D\\ TE 30 30 31 33 31 20 30 D\\ TE 30 30 31 33 34 30 20 31 0D\\ TE 30 30 31 34 30 20 31 0D\\ TE 30 30 31 34 30 20 30 0D\\ \end{array}$	IR Receiver Audio Input	Information Top Receiver Front Receiver Default AUDIO1 AUDIO2 Power Mouse Up Mouse Left	Show Desktop Open Windows Explorer Middle Click Double Click Disable n=0 (a:0x30) , Auto n=1-30 (a:0x31 ~ 0x33 0x30) , Channel number Off On Off
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~XX140 15	7E 30 30 31 34 30 20 31 35 0D	Keystone +
~XX140 16	7E 30 30 31 34 30 20 31 36 0D	Keystone -
~XX140 17	7E 30 30 31 34 30 20 31 37 0D	Volume -
~XX140 18	7E 30 30 31 34 30 20 31 38 0D	Volume +
~XX140 19	7E 30 30 31 34 30 20 31 39 0D	Brightness (1)
~XX140 20	7E 30 30 31 34 30 20 32 30 0D	Menu (2)
~XX140 21	7E 30 30 31 34 30 20 32 31 0D	3D(3)
~XX140 22	7E 30 30 31 34 30 20 32 32 0D	HDMI (4)
~XX140 23	7E 30 30 31 34 30 20 32 33 0D	Freeze (5)
~XX140 24	7E 30 30 31 34 30 20 32 34 0D	AV Mute (6)
~XX140 25	7E 30 30 31 34 30 20 32 35 0D	S-Video (7)
~XX140 26	7E 30 30 31 34 30 20 32 36 0D	VGA (8)
~XX140 27	7E 30 30 31 34 30 20 32 37 0D	Video (9)

SEND from projector automatically

232 ASCII Code	HEX Code	Function	Projector Return	Description
		System status	INFOn	n : 0/1/2/3/4/6/7/8 = Standby/Warming/Cooling/Out of Range/ Lamp fail/Fan Lock/Over Temperature/Lamp Hours Running Out

232 ASCII Code		Function	Projector Return	Description
-XX121 1	7E 30 30 31 32 31 20 31 0D	Input Source	OKn	n : 0/1/2/3/4/5/6/7/8 = None / VGA1 / VGA2 / S-Video / Video / HDMI / Flash Drive/Presenter/USB Display
-XX122 1	7E 30 30 31 32 32 20 31 0D	Sofware Version	OKdddd	dddd: FW version
-XX123 1	7E 30 30 31 32 33 20 31 0D	Display Mode	OKn	n : 0/1/2/3/4/5/6/7/8 = None/Presentation/Bright/Movie/sRGB/ User/Blackboard/Classroom/3D
-XX124 1	7E 30 30 31 32 34 20 31 0D	Power State	OKn	n : 0/1 = Off/On
XX125 1	7E 30 30 31 32 35 20 31 0D	Brightness	OKn	
XX126 1	7E 30 30 31 32 36 20 31 0D	Contrast	OKn	
-XX127 1	7E 30 30 31 32 37 20 31 0D	Aspect Ratio	OKn	(EW675UT/UTi) n: 0/1/2/3/4 = 4:3 / 16:9 or 16:10 * / LBX / Native / AUTO
				(EX665UT/UTi) n: 0/1/2/3/4 = 4:3 / 16:9-I / 16:9-II / Native / AUTO
				* 16:9 or 16:10 depend on Screen Type setting
-XX128 1	7E 30 30 31 32 38 20 31 0D	Color Temperature	OKn	n: 0/1/2 = Warm/Medium/Cold
-XX129 1	7E 30 30 31 32 39 20 31 0D	Projection Mode	OKn	n : 0/1/2/3 = Front-Desktop/Rear-Desktop/Front-Ceiling/ Rear-Ceiling
-XX150 1	7E 30 30 31 35 30 20 31 0D	Information	OKabbbbccdddde	
				a : 0/1 = Off/On
				bbbb: LampHour
				cc: source 00/01/02/03/04/05/06/07/08= None/VGA1/
				VGA2/S-Video/Video/HDMI/Flash Drive/
				Presenter/USB Display
				dddd: FW version
				e : Display mode 0/1/2/3/4/5/6/7/8
				None/Presentation/Bright/Movie/sRGB/User Blackboard/Classroom/3D
-XX151 1	7E 30 30 31 35 31 20 31 0D	Model name	OKn	n: 17/18/19=EX665UT(UTi) / EW675UT(UTi) / EX565UT
-XX108 1	7E 30 30 31 30 38 20 31 0D	Lamp Hours	OKbbbb	bbbb: LampHour
-XX108 2	7E 30 30 31 30 38 20 31 0D	Cumulative Lamp Hours	OKbbbbb	bbbbb: (5 digits) Total Lamp Hours



Wall Mount Installation

- 1. To prevent damage to your projector, please use the Optoma ceiling mount.
- 2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:
 - Screw type: M4*4
 - Maximum screw length: 11mm
 - Minimum screw length: 8mm







Please note that damage resulting from incorrect installation will void the warranty.



🗥 Warning:

- If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.
- 2. Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
- 3. Avoid installing the projector near a heat source.





Optoma Global Offices

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Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC notice

This device 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 device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device 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 device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

Operation conditions

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

- 1. This device may not cause harmful interference and
- This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Disposal instructions



Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

