

OWNER'S OPERATING MANUAL

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R E F L E C T I O N B E F I E C I I O N

CL-700



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Limited Warranty

Congratulations on your purchase of a Runco video product and welcome to the Runco family! We believe Runco produces "The World's Finest Home Theater Products". With proper installation, setup and care, you should enjoy many years of unparalleled video performance. Please read this consumer protection plan carefully and retain it with your other important documents.

This is a LIMITED WARRANTY as defined by the U.S. Consumer Product Warranty and Federal Trade Commission Improvement Act.

WHAT IS COVERED UNDER THE TERMS OF THIS WARRANTY:

SERVICE LABOR: Runco will pay for service labor by an approved Runco service center when needed as a result of manufacturing defect for a period of two (2) years from the effective date of delivery to the end user.

PARTS: Runco will provide new or rebuilt replacement parts for the parts that fail due to defects in materials or workmanship for a period of two (2) years from the effective date of delivery to the end user. Such replacement parts are then subsequently warranted for the remaining portion (if any) of the original warranty period.

WHAT IS NOT COVERED UNDER THE TERMS OF THIS WARRANTY:

This warranty only covers failure due to defects in materials and workmanship that occur during normal use and does not cover normal maintenance. This warranty does not cover cabinets or any appearance item; failure resulting from accident, misuse, abuse, neglect, mishandling, misapplication, faulty or improper installation or setup adjustments; improper maintenance, alteration, improper use of any input signal; damage due to lightning or power line surges, spikes and brownouts; damage that occurs during shipping or transit; or damage that is attributed to acts of God. In the case of remote control units, damage resulting from leaking, old, damaged or improper batteries is also excluded from coverage under this warranty.

CAUTION: DAMAGE RESULTING DIRECTLY OR INDIRECTLY FROM IMPROPER INSTALLATION OR SETUP IS SPECIFICALLY EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. IT IS IMPERATIVE THAT INSTALLATION AND SETUP WORK BE PERFORMED ONLY BY AN AUTHO-RIZED RUNCO DEALER TO PROTECT YOUR RIGHTS UNDER THIS WARRANTY. THIS WILL ALSO ENSURE THAT YOU ENJOY THE FINE PERFORMANCE YOUR RUNCO PRODUCT IS CAPABLE OF PROVIDING WHEN INSTALLED AND CALIBRATED BY RUNCO AUTHORIZED PERSONNEL.

RIGHTS, LIMITS AND EXCLUSIONS:

Runco limits its obligations under any implied warranties under state laws to a period not to exceed the warranty period. There are no express warranties. Runco also excludes any obligation on its part for incidental or consequential damages related to the failure of this product to function properly. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

EFFECTIVE WARRANTY DATE:

This warranty begins on the effective date of delivery to the end user. For your convenience, keep the original bill of sale as evidence of the purchase date.

IMPORTANT: WARRANTY REGISTRATION:

Please fill out and mail your warranty registration card. It is imperative that Runco knows how to reach you promptly if we should discover a safety problem or product update for which you must be notified.

TO OBTAIN SERVICE, CONTACT YOUR RUNCO DEALER:

Repairs made under the terms of the Limited Warranty covering your Runco International video product will be performed at the location of the product, during usual working hours, providing location of product is within normal operating distance from a Runco Authorized Service Center. If, solely in Runco's judgement, location of product to be repaired is beyond normal operating distance of the closest Runco Authorized Service Center, it is the owner's responsibility to arrange for shipment of the product for repair. These arrangements must be made through the selling Runco dealer. If this is not possible, contact Runco directly for a return authorization number and shipping instructions. Runco will return product transportation prepaid in the United States, unless no product defect is discovered. In that instance, shipping costs will be the responsibility of the owner.

ADDITIONAL INFORMATION:

To locate the name and address of the nearest Runco Authorized Service location, or for additional information about this warranty, please call, write or visit our website:

CUSTOMER SERVICE DEPARTMENT RUNCO INTERNATIONAL 2900 Faber Street Union City, CA 94587 Ph: (510) 324-7777 / Fax: (510) 324-9300 www.runco.com

Runco CL-700 Video Projector User's Manual

Thank you for your purchase of this quality Runco video projector! It has been designed to provide you with the quality of video that is expected in a home theater. For the best performance, please read this manual carefully as it is your guide through the menus and operation.

WARNING



This symbol 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.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Do not use this projector near water, outdoors or otherwise exposed to the elements.
- 5. Clean only with a dry cloth.
- 6. Do not block any ventilation openings.
- 7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8. Do not defeat the safety feature of the polarized or grounding type plug. A polarized type plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
- 9. Do not connect the RJ-11 RS-232 jack to a telephone line connection.
- 10. The 12V trigger only output DC 12V signal for triggering. Do not connect to any other power input or output. This could cause damage to this unit.
- 11. Only use accessories specified by RUNCO International.
- 12. Keep the packing material in case the projector should ever need to be shipped.
- 13. Unplug this projector during lightning storms or when it will not be used for an extended period of time.
- 14. The lamp becomes extremely hot during operation. Allow the projector to cool down for approximately 45 minutes prior to removing the lamp assembly for replacement. Do not operate lamps beyond the rated lamp life. Excessive operation of lamps beyond rated life could cause them to explode in rare occasions.
- 15. Refer all servicing to qualified service personnel. Servicing is required when the projector has been damaged in any way, objects have fallen or spilled into the projector, the projector has been exposed to rain or moisture, does not operate normally, or has been dropped.

Runco CL-700 Video Projector 1

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1. Overview

Features

■ True 16x9 High Definition DMD for 16x9 screens.

High Contrast and Picture Quality

This single-DMD DLP™ projector provides excellent contrast ratio, color uniformity and seamlesss picture quality.

Fantastic Dynamic Performance and Rich Gray-scale

With a 6-segment color wheel, the picture's refresh rate can attain speeds of up to 240 Hz. By doing this, this unit provides fantastic dynamic performance and rich gray-scale without the 'color-flicker' or 'rainbowing' associated with other single-DMD DLP[™] projectors.

Sealed Optical Engine with a High-Quality Lens Design

The optical engine uses a high-quality lens for maximizing optical performance. The sealed optical engine prevents light leakage and any dust from entering the engine, which could cause annoying 'spots' in the image.

Low Noise Operation

The projector's unique cooling system design prevents annoying fan noise, and is rated at less than 30 dB.

Wide Variety of Inputs

This unit can support various video formats, including Composite, S-Video, Component, DTV Y/PB/PR, DTV RGB and Computer signals. The HDTV input (DTV Y/PB/PR and DTV RGB) is input through RGB BNC port, providing the least amount of signal degradation caused by longer cable runs.

HDTV Ready

480i, 480P, 1080i and 720P (576I and 576P PAL Version) formats are all compatible with this unit (via an external DTV decoder, not provided).

De-interlacing with 3:2 Pull-down

Using Runco's proprietary De-interlacing technology, this projector provides exceptional scaling and film to video (3:2 pulldown) conversion for the most artifact-free images possible.

PIP function

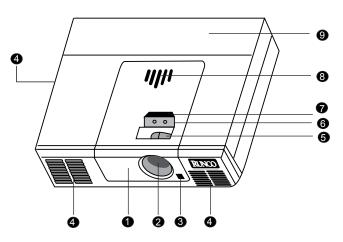
Picture in picture functions allow you to display two inputs on the screen at the same time.

Video Memory

This projector allows the user to store up to three different settings in the video memories.

Location

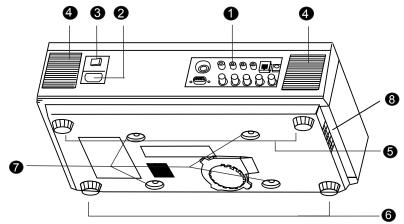
Front / Upper Side



- 1. Front Lamp Cover Remove this cover when replacing the lamp.
- 2. Projection Lens
- 3. Front IR Sensor
- 4. Ventilation Holes (exhaust)
- 5. Focus Ring and Zoom Ring Adjusts the focus and zoom of image.

- Power LED and Lamp LED Show the status of power and lamp. For more details, see "Control Panel" on page 5.
- 7. Top IR Sensor
- 8. Power ON Indicator
- 9. Cord Cover

Rear / Bottom Side



1. Connector Panel

For more details, see "Connector Panel" on page 6.

2. AC Power IN Socket

3. AC Power Switch AC main power switch

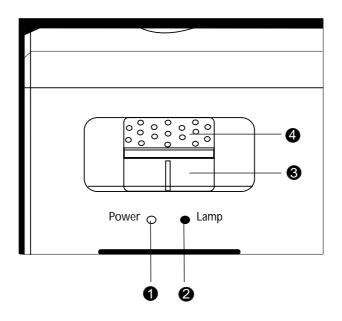
4. Ventilation Holes (intake)

- 5. Rear Adjusters Adjust the height or projection angle
- 6. Front Adjusters Adjust the height or projection angle
- 7. Ceiling Mount Holes The connecting holes with ceiling mounting device.
- 8. Ventilation Holes (exhaust)

4 1. Overview

Controls and Functions

Control Panel



1. POWER LED

Indicate the status of the power

- Orange when the AC power cord is plugged into the wall outlet (standby mode). Once in the standby mode, you can turn on the projector by pressing ON key on the remote control for ONE second.
- Green when the power is turned on (operational mode).
- Flashing Orange for the first 30 seconds after power-up indicating that the lamp is warming up.
- Flashing Green for one minute after the projector was powered off indicating that the lamp is cooling down.

2. LAMP LED

Indicates the status of lamp

Red when the lamp has developed a problem. Please contact your Runco dealer for assistance.

3. Zoom Ring

Adjust the size of the image

■ Rotate right to enlarge the image, and rotate left to make the image smaller.

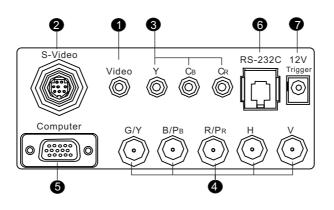
4. Focus Ring

Adjust the focus of the image

■ Rotate the focus ring right or left to focus the image.

1. Overview 5

Connector Panel



1. Video (RCA Jack)

Composite video signal input.

- 2. S-Video (mini DIN 4-pin) Y/C (S-video) signal input
- 3. Component (RCA Jacks)
 480i Component (Y/CB/CR) video signal input

4. RGB/ HDTV (BNC) or Progressive Scan DVD players DTV Y/PB/PR or DTV RGB video signal input.

- 5. Computer (D-Sub 15-pin) RGB Computer signal input.
- 6. RS-232C (RJ-11 Jack) RS-232C control signal input.

7. 12v Trigger (mini jack)

+12V output, active when the projector is turned on.

Remote Control

VIDEO Composite video signal input

S-VIDEO S-Video signal input

COMPONENT Component Y/CB/CR input

COMPONENT HD DTV Y/P_B/P_R signal input

RGB HD DTV RGBHV signal input

PC Computer signal input

CUSTOM

Recall memory 1~3 sequentially (see "Selecting Video Memory" on page 16)

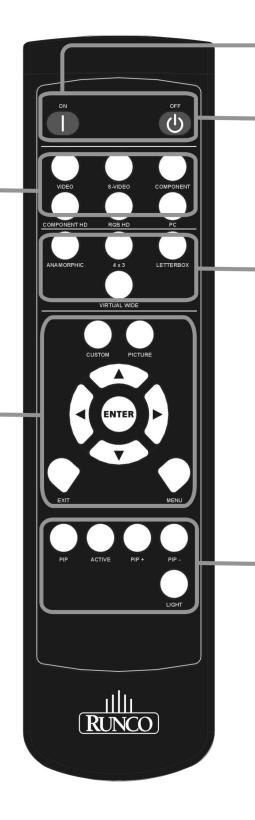
PICTURE Access the Picture Setting menu (see "PICTURE Setting Page" on page 18)

ARROW $(\blacktriangle, \blacktriangleleft, \blacktriangledown, \blacktriangleright)$ Use to select the menu or to make various adjustments.

ENTER Enter the setting of items in the menu.

EXIT Exit and save the setting(s) of items in the menu.

MENU Turns on/off the on-screen display menu.



ON

Hold down this button for ONE second to turn on the unit.

OFF

Press this button to turn off the unit.

ANAMORPHIC

For 16:9 DVDs.

4X3

The input signal will be scaled to fit 4:3 display mode in the center of screen.

LETTERBOX

Letterbox mode. Image is letterbox format is enlarged to fit 16:9 full screen display and the upper/lower portion are 'blanked off'.

VIRTUALWIDE

4:3 image is enlarged NON-linearly in horizontal direction to fit 16:9 full screen display.

PIP (Picture in Picture)

Enable the PIP function. Use ARROW keys to adjust the position of the PIP window (see "PIP function" on page 17).

ACTIVE

Switch to the active window in PIP display mode.

PIP+

Enlarge the size of PIP window.

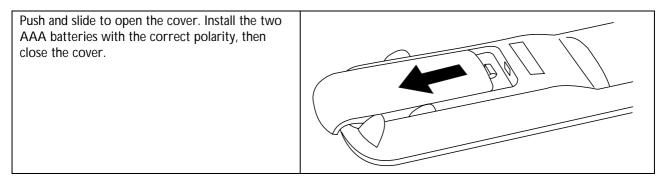
PIP-Shrink the size of PIP window.

LIGHT

Turn on the backlight of remote control.

2. Installation

Remote Control



Notes on Batteries

- Make sure that the battery polarities are correct when installing the batteries.
- Do not mix an old battery with a new one or different types of batteries.
- If you will not use the remote control for a long time, remove the batteries to avoid damage from battery leakage.

Notes on Remote Control Operation

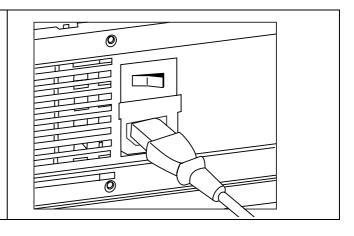
- Make sure that there is nothing obstructing the infrared beam between the remote control and the IR receiver on the projector.
- The useable range is between 3m (from the front of the projector) and 4m (from the rear of the projector) within 30 degree horizontal angle and 15 degree vertical angle.

Projector

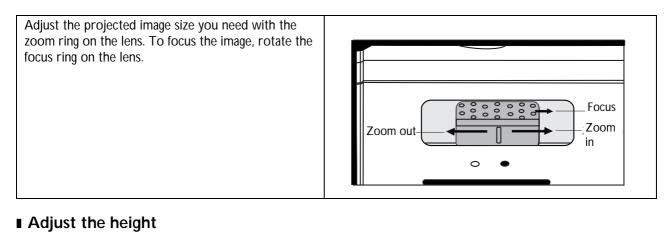
■ Connect the Power Cord

Plug the supplied power cord into the AC inlet in the rear of this unit.

Turn on the main power switch in the rear of this unit (next to the AC inlet). The POWER LED will light up in orange. Press ON key on the remote control for ONE second to turn on the unit.



■ Adjust the Lens Zoom/Focus ring

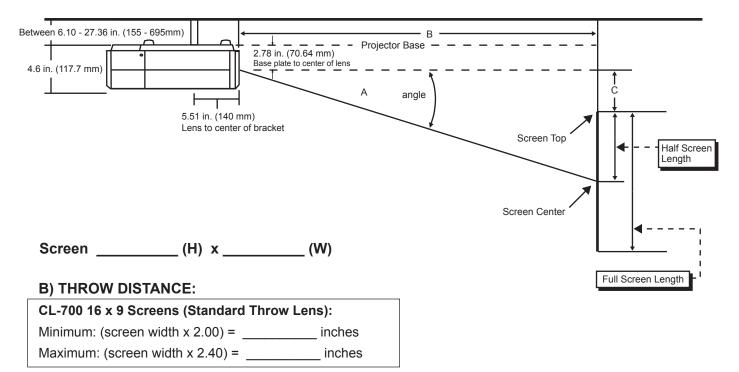


There are 4 screw adjusters on the bottom of this unit. You can adjust the height or projection angle of this unit by using these adjusters.

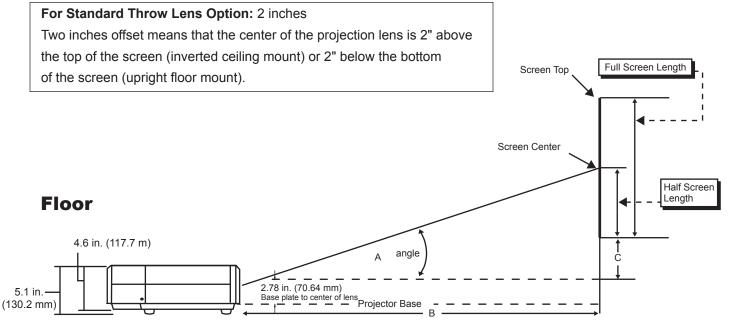
2. Installation 9

Installation with Standard Lens

Ceiling

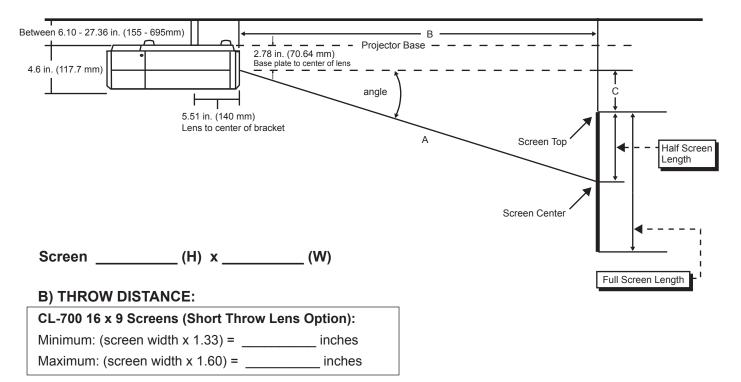


C) VERTICAL OFFSET:



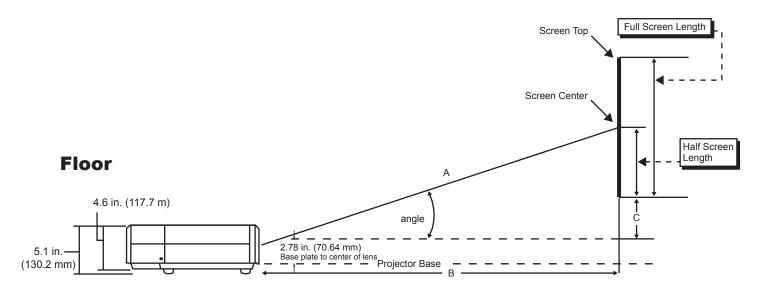
Installation with Short Lens Option

Ceiling



C) VERTICAL OFFSET:





Throw Distance Charts

Screen Height	Screen Width	Min Throw Distance	Max Throw Distance	Vertical Offset Position
40.5	72	144.18	173.02	2" Vertical Offset
43	77	153.08	183.70	2" Vertical Offset
45	80	160.20	192.24	2" Vertical Offset
47	84	167.32	200.78	2" Vertical Offset
49	87	174.44	209.33	2" Vertical Offset
50	89	178.00	213.60	2" Vertical Offset
51.5	92	183.34	220.01	2" Vertical Offset
52	93	185.12	222.14	2" Vertical Offset
54	96	192.24	230.69	2" Vertical Offset
56	100	199.36	239.23	2" Vertical Offset
58	103	206.48	247.78	2" Vertical Offset
58.5	104	208.26	249.91	2" Vertical Offset
60	107	213.60	256.32	2" Vertical Offset
61	109	217.16	260.59	2" Vertical Offset
63	112	224.28	269.14	2" Vertical Offset
65	116	231.40	277.68	2" Vertical Offset
67.5	120	240.30	288.36	2" Vertical Offset
72	128	256.32	307.58	2" Vertical Offset
80	142	284.80	341.76	2" Vertical Offset
82	146	291.92	350.30	2" Vertical Offset
90	160	320.40	384.48	2" Vertical Offset
Screen Ht	Screen Width	Min TD	Max TD	Vertical Offset
		(SWx2.00)	(SWx2.40)	2" Vertical Offset

CL-700 @ 1280 x 720 with Standard Lens

Two inches offset means that the center of the projection lens is 2" above the top of the screen (inverted ceiling mount) or 2" below the bottom of the screen (upright floor mount).

CL-700 @ 1280 x 720 with Short Lens	Option
-------------------------------------	--------

Screen Height	Screen Width	Min Throw Distance	Max Throw Distance	Vertical Offset Position
40.5	72	95.88	115.34	4.06
43	77	101.80	122.46	4.31
45	80	106.53	128.16	4.51
47	84	111.27	133.86	4.71
49	87	116.00	139.55	4.91
50	89	118.37	142.40	5.01
51.5	92	121.92	146.67	5.16
52	93	123.10	148.10	5.21
54	96	127.84	153.79	5.41
56	100	132.57	159.49	5.61
58	103	137.31	165.18	5.81
58.5	104	138.49	166.61	5.86
60	107	142.04	170.88	6.01
61	109	144.41	173.73	6.11
63	112	149.15	179.42	6.31
65	116	153.88	185.12	6.51
67.5	120	159.80	192.24	6.76
72	128	170.45	205.06	7.21
80	142	189.39	227.84	8.01
82	146	194.13	233.54	8.21
90	160	213.07	256.32	9.01
Screen Ht	Screen Width	Min TD	Max TD	Vertical Offset
		(SWx1.33)	(SWx1.60)	2.20 degree offset

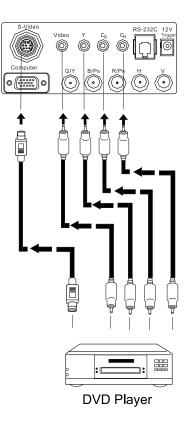
3. Connecting

When connecting, make sure to:

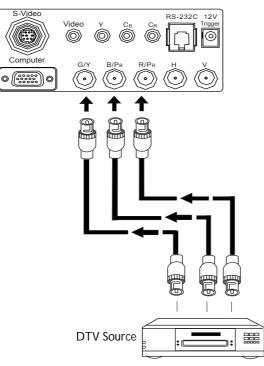
- 1. Turn off all equipment before making any connections.
- 2. Use the correct signal cables for each source.
- 3. Ensure the cables are firmly connected.
- 4. Connect all audio signals to external speakers. This projector is not equipped with speakers.

Connecting Video Inputs

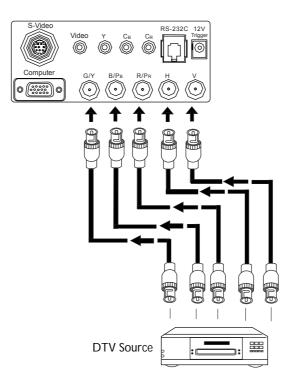
Video / S-Video / Component (Interlaced Video)



■ Progressive Component (DTV Y/PB/PR)



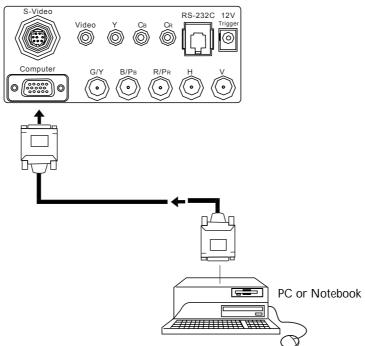
■ RGBHV (DTV RGB)



The RGB BNC input supports two kinds of HDTV formats: Progressive component (DTV Y/PB/PR) and DTV RGB. The unit will auto detect the resolution automatically.

3. Connecting 13

Connecting a Computer

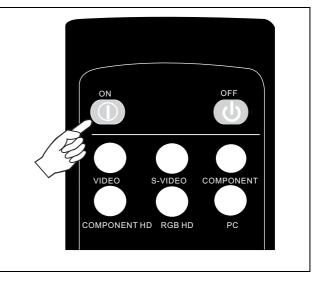


This unit only supports resolutions up to XGA. If the input signal is greater than XGA, the projector will display a warning message.

4. Basic Operation

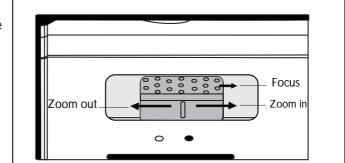
Turning on the Power

- The Power LED lights orange when power is applied and the power switch is turned on.
- Press and hold the ON key on the remote control for ONE second to turn on the unit. The POWER LED will blink orange during warm up period, then light solid green.
- "Searching...." will be displayed on the screen before the projector identifies the input signal. This message will remain on the screen until a valid signal is detected.
- If the horizontal frequency of the input signal exceeds the range of the projector (XGA), a " Not supportive timing " message will be displayed on the screen. This message will remain on screen until you change the input signal.



Zoom/ Focusing

Adjust the projection image size you need with the zoom ring on the lens. To focus the image, rotate the focus ring on the lens.



Selecting Input Source

When this unit is turned on, it will search for the input source you selected last time.
 You may select the input source directly on the remote control.

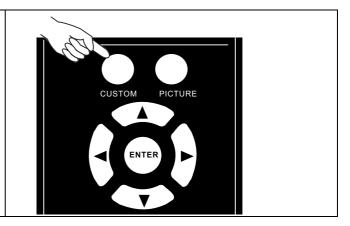
Selecting "ASPECT ratio"

- Select the proper Aspect Ratio according to the format of signal content. There are four Aspect Ratio for choice:
- ANAMORPHIC: 4:3 image is stretched horizontally to fit the 16: 9 screen. This is for 16:9 DVDs.
- 4 X 3: The input signal will be scaled to fit 4 : 3 display mode in the center of screen.
- LETTERBOX: Letter box mode. Image in letter box format is enlarged to fit 16:9 full screen display and the upper/lower portion are compressed.
- VIRTUAL WIDE: 4:3 image is enlarged NONlinearly in horizontal direction to fit 16: 9 full screen display.

ANAMORPHIC 4X3 LETTERBOX VIRTUAL WIDE

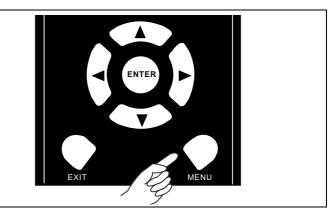
Selecting Video Memory

■ Press the CUSTOM button to recall a setting in the memory. Each time you press this button, the unit will recall the settings as follows: MEMORY 1 → MEMORY 2 → MEMORY 3 → OFF.



Setting Menu

- Press the MENU button to turn on /off the onscreen display menu.
- Use the ARROW buttons (▲/◀/▼/►) to select the menu or to make various adjustments.
- Press the ENTER button to enter the setting of items in the menu, or press the EXIT button to leave and save the setting of items in the menu.
- For more detail settings, see "5. Menu" on page 18



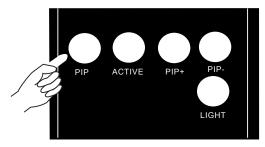
PIP Function

- * Press the PIP button to enable the PIP function
- * For PIP purposes, there are two groups of inputs separated by their display modes:

Video Group: Video, S-Video and Component $Y/C_B/C_R$ inputs

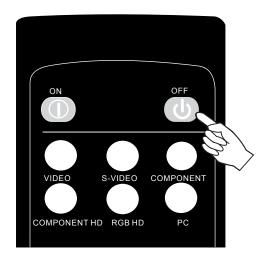
Graphic Group: HDTV input and Computer input.

- * The PIP can show one input from the Graphic Group within one input from the Video Group, or show one input from Video Group within one input from the Graphic Group.
- * Press the PIP button to switch to the main window or turn off PIP function.
- * Select the input source of main window by pressing the INPUT button.
- * Press the ACTIVE button to switch to the active window. You can change the input signal setting in active window.
- * Press PIP+ or PIP- to adjust the size of PIP window.
- * Adjust the position of the PIP window with the ARROW keys (\blacktriangle , \blacktriangleleft , \blacktriangledown , \blacktriangleright).



Turning off the Power

- * Press the OFF key on the remote control to turn off the unit.
- * The POWER LED will blink green and the fans will operate for 1 minute to cool down the lamp. The projector will not respond to any command for 1 minute.
- * The POWER LED will light solid orange once the cooling down cycle has completed.
- * After turning off the unit, the POWER LED will blink green and the fans will operate together for one minute.
- * Fans will run for 3 minutes to cool.
- * You may turn the projector back on after the first minute.

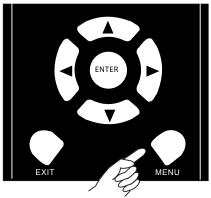


5. Menu

Using the Menu

This unit is equipped with an on screen display (OSD) menu for making various adjustments and settings.

There are 3 different menu languages; page 21 Language setting for more details.



Press the MENU button to turn on /off the on-screen display menu. Use the ARROW buttons ($\land/\checkmark/\checkmark/\checkmark$) to select the menu or to make various adjustments. Press the ENTER button to enter the setting of items in the menu, or press the EXIT button to leave and save the setting of items in the menu.

PICTURE Setting Page

In this Menu, all 'front panel' adjustments can be made. These settings can be stored in 3 separate video memories, in which each can have different parameters for different sources.

There are 12 Menu Items: BRIGHTNESS — CONTRAST — COLOR — SHARPNESS — TINT — COLOR TEMPERATURE — FILTERS — RED — GREEN — BLUE — YELLOW — WHITE.



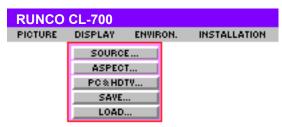
- 1. BRIGHTNESS: Adjust the picture brightness (0 \sim 60). Higher the setting, brighter the picture. And lower the setting, darker the picture.
- 2. CONTRAST: Adjust the picture contrast (0 ~ 60). Higher the setting, greater the contrast. And lower the setting, lower the contrast.
- 3. COLOR: Adjust color intensity (0 ~ 30). Higher the setting, the greater the color intensity. And lower the setting, lower the color intensity.
- 4. SHARPNESS: Adjust the picture sharpness (-10 to +10). Higher the setting the sharper the picture. And lower the setting the softer the picture.

- 5. TINT: Adjust color tones (0 ~ 30). The higher the setting, the picture becomes greenish. The lower the setting, the picture becomes purplish.
- 6. COLOR TEMP .: Adjust the color temperature.
 - **0**: The default color temperature of lamp.
 - 1 : Low color temperature (6500°K): Video Standard.
 - 2: Middle color temperature (9000°K): Makes the white color normal.
 - **3** : High color temperature (11500°K): Makes the white color bluish.
- 7. FILTERS: Turn on /off the video filters. This could reduce the noise in the picture to get sharper picture. There are 4 filters for video input $(0 \sim 3)$ and 2 filters for graphic input $(0 \sim 1)$. Higher the setting the less the noise.
- 8. RED: Adjust red color independently (0 ~ 30). Higher the setting, the greater the red color intensity. And lower the setting, lower the red color intensity.
- 9. GREEN: Adjust green color independently (0 ~ 30). Higher the setting, the greater the green color intensity. And lower the setting, lower the green color intensity.
- 10. BLUE: Adjust blue color independently (0 ~ 30). Higher the setting, the greater the blue color intensity. And lower the setting, lower the blue color intensity.
- 11. YELLOW: Adjust yellow color independently (0 \sim 30). Higher the setting the greater the yellow color intensity. And lower the setting, lower the yellow color intensity.
- 12. W HITE: Adjust the white color independently (0 \sim 10). Higher the setting, the greater the white color intensity. And lower the setting, lower the white color intensity.

DISPLAY Setting Page

In this Menu Page, you could set the way how the projector display the picture.

There are 5 Menu Items in this page: SOURCE — ASPECT — PC&HDTV — SAVE — LOAD.



1. SOURCE: Select the input source.

VIDEO: Composite video signal input.

S-VIDEO: S-Video signal input

COMPONENT: Component Y/CB/CR input

COMPONENT HD: DTV Y/PB/PR input

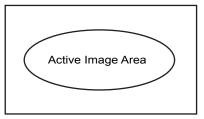
RGB HD: DTV RGBHV signal input

PC: Computer signal input PC

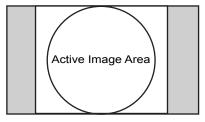
2. ASPECT: There are four aspect ratios available that can be selected for video signal inputs.

16:9 Screens:

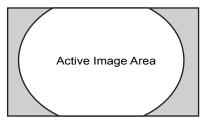
ANAMORPHIC: The image is compressed vertically, but anamorphic software will appear properly proportioned. This is best suited for use with 16:9 DVD's.



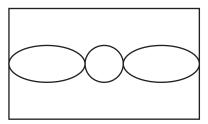
4 x 3: The input signal will be scaled to fit in the center of the 16:9 screen.



LETTERBOX: The image in the Letterbox mode will be stretched vertically, and the top and bottom portion 'blanked off'. This ratio is best suited for LaserDisc movies or non-anamorphic DVD's.



VIRTUAL WIDE: A 4:3 image is horizontally stretched non-linearly to allow a 4:3 image to completely fill a 16:9 screen without using any blanking.



- 3. PC & HDTV: The following settings are only available with a PC or DTV RGB signal:
 - * AUTO: Adjusts the phase, frequency and position signal.
 - * PHASE: Adjusts the phase of signal.
 - * FREQUENCY: Adjusts the frequency of signal.
 - * H. POS.: Adjusts the horizontal position of the image.
 - * V. POS.: Adjusts the vertical position of image.
- **4. SAVE:** There are 3 video memories in which the user could save their settings, including all menu items of the Picture Setting Menu.
- 5. LOAD: Loads the settings from one of three video memories.

ENVIRONMENT Setting Page

In this Menu, the global settings for the projector can be made.

There are 5 Menu Items: DEFAULT — LAMP TIMER — BACK LIGHT — AUTO OFF — LAMP HOURS.



- 1. DEFAULT: Load the default value of current input source.
- 2. LAMP TIMER: Resets the lamp timer. This should only be done after the lamp has been replaced.
- 3. BACK LIGHT: Turn on/off the Power ON Indicator.
- 4. AUTO OFF: Set the auto shutdown timer. The setting timer is from 10 minutes to 3 hours.
- 5. LAMP HOURS: This displays the number of hours the lamp has been used (the useable lifetime of the lamp is 1000 hours). If the lamp hours exceed 1000, a warning message will be displayed on screen; when this happens, contact your Runco dealer for a new lamp.

INSTALL Setting Page

This menu contains items necessary for installation.

There are 3 Menu Items included: LANGUAGE, MIRROR and KEYSTONE.

RUNCO	CL-700		
PICTURE	DISPLAY	ENVIRON.	INSTALLATION
			LANGUAGE
			MIRROR
			KEYSTONE

- 1. LANGUAGE: There are 3 languages that could be selected for the menus: English, French and Spanish.
- 2. MIRROR: The projector could be installed on a ceiling or behind a screen, or with one or more mirrors. There are four settings:

FLOOR FRONT

CEILING FRONT

FLOOR REAR

CEILING REAR

 KEYSTONE: Corrects for trapezoidal distortion as a result of the angle of projection (-12 ~ +12). This can correct for up to ± 12 degrees of offset.

6. Additional Information

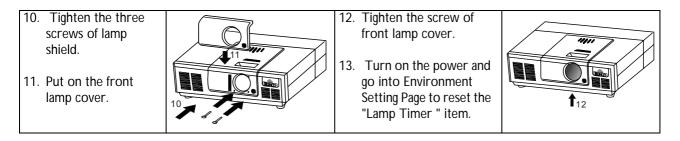
Warning Message

 It is normal for lamp to be darker when this unit has been used for a period of time. "Lamplife is expired ! Please change a new lamp. And reset the lamp timer " message will be displayed for 30 seconds on the screen if the lamp has operated for 950 hours. 	Lamplife is expired ! Please change new lamp And reset the lamp timer
"Please change the lamp, Lamp will exceed its lifetime after (hours): "message will be displayed on the screen for 30seconds for each time turning on, if the lamp has operated for 980 hours. And the number will count down continuously.	Please change the lamp ! Lamp will exceed its lifetime after (hours):
 "Please change the lamp !" message will display on the screen all the time and the POWER LED will blink in orange and green sequentially if the lamp has operated for more than (1,000) hours. The power will turn off automatically after 10 minutes. 	Please change the lamp !

Replace the Lamp (Contact your Runco Dealer)

1.	Loosen the screw of front lamp cover	2.	Take off the front lamp cover Loosen the three screws of lamp shield	
4. 5.	Take off the lamp shield Loosen the two screws of lamp module.	6.	Pull out the lamp module horizontally.	
7.	Insert the new lamp module into this projector horizontally until it is securely in place.	8. 9.	Tighten the two screws of lamp module. Put on the lamp shield.	

22 6. Additional Information



Troubleshooting

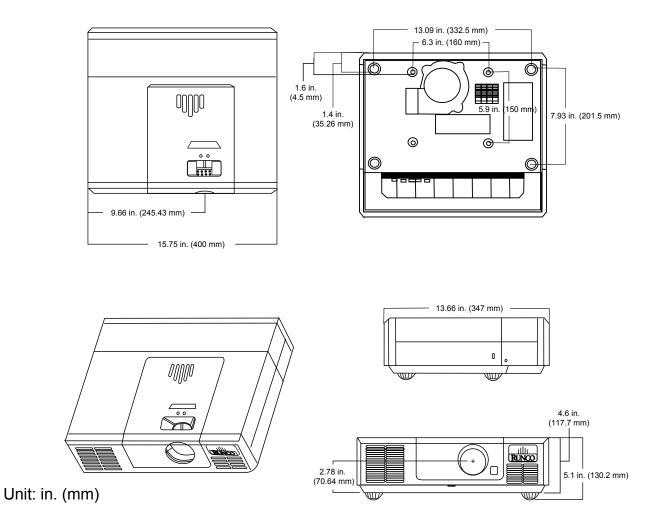
Problem	Possible Cause	Remedy
This unit does not turn on.	There is no power from power cable.	Plug the power cord into the AC inlet on the rear of this unit, and plug the power cord into to the power inlet.
	The power switch is not turned on.	Turn on the power switch.
	Turn on this unit again within the cooling down procedure.	Wait this unit complete the cooling down procedure.
	Front lamp cover is not attached well.	Correctly attach the front lamp cover.
No picture	The front lamp cover is not correctly attached.	Correctly attach the front lamp cover.
	This unit is not correctly connected to the input source device.	Check the connection.
	The input signal has not been correctly selected.	Select the correct input signal with INPUT key on the remote control.
	The input signal has not been correctly selected in " INPUT SOURCE " item in " DISPLAY Setting Page ".	Select the correct input signal.
	POWER LED or LAMP LED blinking.	Please contact your Runco dealer for assistance.
Image is unstable	The connection cables are not connected to this unit.	Correctly connect the cables to the appropriate terminals.
Picture is burred	The projection lens is not correctly focused.	Adjust the focus of projection lens with the focus ring.
	This unit and the screen are not placed squarely. (90 degree)	Adjust the projection angle and direction, and the height of this unit.
Remote control does not work correctly	The batteries are exhausted.	Replace both batteries with new ones.
LAMP LED blink in red	The front lamp cover is not correctly attached.	Correctly attach the front lamp cover.
	The cooling fan does not work well.	Please contact your Runco dealer for assistance.
	The temperature inside this unit is extremely high.	Check that the ventilation holes are not blocked.
POWER LED blink in orange and green	The lamp has exceed its specified usage hours.	Replace the lamp with a new one.
sequentially	The lamp has burned out.	Replace the lamp with a new one.

Specifications

Projector Type:	Digital Light Processing™ (DLP™)
Native Resolution:	1280 x 720
Video Standards:	NTSC, NTSC 4.43, PAL-M, PAL-N, SECAM
Lamp:	210W
Lamp Life:	1000 hours
Picture Size:	40" to 300" diagonal
Throw Distance:	Standard Throw Lens: 2.00 - 2.40 x screen width Short Throw Lens option: 1.33 - 1.60 x screen width
Vertical Offset:	Standard Throw Lens: 2" Two inches offset means that the center of the projection lens is 2" above the top of the screen (inverted ceiling mount) or 2" below the bottom of the screen (upright floor mount).
	Short Throw Lens option: Min + Max TD / 2 x 0.0384
Light Output:	18 foot-Lamberts on 84" wide screen 1.3 gain material
Inputs:	Composite, S-video, RGB/Component (via BNC), Component (RCA), RGB (DB 15)
Contrast Ratio:	900:1
Power Requirements:	100-240 VAC, 250W
Power Consumption:	310W (Max.)
12V Output:	Max .250 Amp, active when the projector is on
Dimensions (w/out feet):	Width: 15.75 in. / 400 mm Depth: 13.66 in. / 347 mm Height: 4.6 in. / 117.7 mm
Weight:	14.8 lbs. (6.7 kg)
Regulatory Approvals:	UL, CSA, GS-TUV, CCIB, CB, FCC, CE, VCCI and C-Tick
Operating Environment:	41°-95° F (5°- 35° C), 20%-80% Humidity
Warranty:	Service Labor and Parts: Runco warrants the product for (2) two years from the date of delivery to the end user.
Lamp Warranty:	1000 hours or (6) six months, which ever comes first.

* Optional ceiling bracket available.

Dimensions



RS-232 Setup

Baud Rate : 115200 or 9600 Parity : None Data Bits : 8 Bits Stop Bits : 1 Bit Flow Control : None

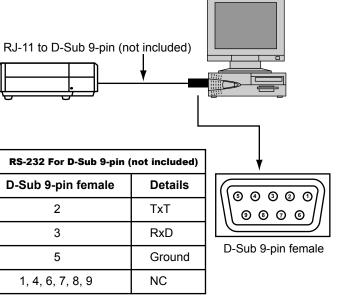
RS-232C Control Codes

Code Function

- X01 Power On
- X02 Power Off X03 Message On
- X04 Message Off
- X10 Menu (arrow key)
- X11 Enter (arrow key)
- X12 Exit (arrow key)
- X13 Up (arrow key)
- X14 Down (arrow key)
- X15 Left (arrow key)
- X16 Right (arrow key)
- X20 Switch to Composite input
- X21 Switch to S Video input
- X22 Switch to Component input
- X23 Swithc to D-sub PC input
- X24 Switch to YPBPR input
- X25 Switch to BNC_PC input
- X35 Anamorphic
- X36 Standard
- X37 Letter box
- X38 Virtual Wide
- X40 Load memory 1 settings
- X41 Load memory 2 settings
- X42 Load memory 3 settings
- X46 Load default of current source
- X47 Save memory 1 settings
- X48 Save memory 2 settings
- X49 Save memory 3 settings
- X55 Switch active source
- X56 Picture in picture display
- X57 Picture in picture display
- X60 Switch language English
- X61 Switch language French
- X62 Switch language Spanish
- X85 PC Input auto
- X90 Image orientation floor frontX91 Image orientation ceiling front
- X91 Image orientation ceiling froX92 Image orientation floor rear
- X93 Image orientation ceiling rear
- X94 Back light on
- X95 Back light off

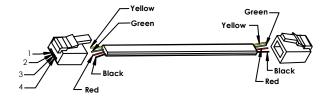
PC Out Adapter

- 1) Connect D-Sub 9-pin female to RJ-11 adapter (not included) to Com port on PC.
- 2) Connect RJ-11 to Projector.



WARNING: During initial turn on and turn off of the projector, this unit will not accept RS-232 codes for 20 seconds.

RS-232 For RJ-11 (not included)		
4-pin RJ-11	Details	
2	TxT	
3	RxD	
1, 4	Ground	



NOTE:

- 1. All codes are in the ASCII format
- 2. A carriage return is required after each command.

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