

DLP

RUNCO INTERNATIONAL
DIGITAL LIGHT PROCESSING™

REFLECTION CL-710/CL-710LT



1280 X 720 HD-2 WIDESCREEN NATIVE RESOLUTION
INTEGRATED VIDEO PROCESSING WITH 3:2 PULLDOWN
1000 ANSI LUMENS/1800:1 CONTRAST RATIO
MULTIPLE ASPECT RATIOS



The World's Finest Home Theater Products™

GEN3
TECHNOLOGY

Runco presents the Reflection CL-710 and CL-710LT featuring our new GEN 3 technology. Runco has engineered its GEN 3 products to make more efficient use of optical light engine design.

Runco has implemented a host of advancements into this new engine to take full advantage of Texas Instrument's latest HD-2 widescreen high definition DMD chip.

Among the advances Runco has developed are a sophisticated color balancing system resulting in the industry's best gray scale tracking. This far surpasses the capabilities of CRT projectors. Accurate gray scale reproduction is vital to rich, deeply saturated, true-to-life color reproduction, as well as superior black level and white level performance.

The CL-710/CL-710LT also offer great versatility and extensive features to achieve outstanding image quality and operational ease. The integrated video processing/scaling incorporates 3:2 pulldown compensation. The CL-710 offers a variable throw distance of 1.4:1 to 1.6:1, while the CL-710LT provides a longer variable throw distance of 1.85:1 to 2.4:1. Both models include electronic keystone correction for installation flexibility and discrete I/R and RS-232 control to make operational control a breeze.



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FEATURES:

- Runco-engineered, GEN 3 Technology
- 16:9 Widescreen Native Resolution
- 1280 x 720 HD-2 Resolution
- 1800:1 Contrast Ratio
- HDTV Ready
- DVI Input with HDCP

SPECIFICATIONS:

Projector Type:	Digital Light Processing™ (DLP™), Single HD-2 DMD™ Chip
Native Resolution:	1280 x 720, (16:9)
Aspect Ratios:	4:3, Letterbox, 16:9 Anamorphic, Virtual Wide
Video Standards:	NTSC, PAL
DTV Compatibility:	480p, 720p, 1080i
Scan Frequency:	Horizontal: 50–68 kHz Vertical: 50–85 Hz
Picture Size (16:9 Screen):	Recommended Width: 72–96 in. Maximum Width: 200 in.
Throw Distance:	CL-710: 1.40:1 to 1.60:1
(Factor x Screen Width):	CL-710LT: 1.85:1 to 2.40:1
Light Output:	1000 ANSI Lumens* <u>CSMS** Specifications:</u> Home Theater Calibration: 489 ANSI Lumens 18.1 Foot-Lamberts (fL)
Contrast Ratio:	1800:1 CSMS** Contrast Ratio: 156:1
Lamp:	210W
Lamp Life:	1000 hours @ 6500° Kelvin

Inputs:	(1) Composite Video, (1) S-Video, (1) RGB/Component (via BNC), (1) RCA Component Video, (1) DVI w/ HDCP, (1) RS-232
Memories:	18 memories
12V Output:	Max .250 Amp, active when the projector is on
Power Requirements:	100–240V AC, 50/60 Hz, 310W
Operating Environment:	41°–95° F, (5°–35° C), 20%–80% Humidity (non-condensing)
Dimensions (w/out feet):	Width: 16 1/8 in. (410.16 mm) Depth: 14 1/2 in. (370 mm) Height: 5 1/4 in. (132.2 mm) with feet 5 3/4 in. (146 mm) Weight: 22 lbs. (10 kg) (includes lens)
Regulatory Approvals:	UL, CSA, GS-TUV, CCIB, CB, FCC, CE, VCCI and C-Tick
Limited Warranty:	<u>Projector:</u> (2) Two year parts and labor from the date of delivery to the end user <u>Lamp Warranty:</u> 1000 hours or (6) six months, which ever comes first.

*ANSI Lumen specification:

This is the typical projector luminosity (brightness) specification found in most sales literature. This measurement is included in RUNCO literature to allow for direct comparison with other manufacturer's projectors. These measurements can be taken at 9,000 to 13,000°Kelvin to get expected performance data when the projector is used in professional, commercial, and industrial displays.

**CSMS Home Theater Calibration ANSI Lumen Specification:

These measurements are taken from the projector as set up in a home theater environment. The projector is calibrated to ISF specifications including setting the color temperature to 6500°Kelvin, the standard for reproducing video.

**CSMS Home Theater Calibration foot-Lambert (fL) Specification:

This is the unit of measurement used in commercial movie theaters to express image brightness. The Society of Motion Picture and Television Engineers (SMPTE) specifies 16 fL as the target image brightness for film-based projectors using an open gate (without film in the projector). More importantly, today SMPTE specifies 12 fL as the target image brightness in Digital Cinema theaters using DLP™ technology. The foot-Lambert is dependant on screen size, screen gain, and projector light output.

All measurements are made at RUNCO to ANSI/NAPM IT7.228-1997 specifications using the Photo Research PR-650 SpectraColorimeter and Minolta LS-100 Luminance Meter, Video Essentials test DVD, and a Stewart Filmscreen StudioTech 130, 1.3 gain, 72-inch wide screen. The projector is calibrated to a color temperature of 6500° Kelvin and has a minimum of 150 hours of usage.