

HOME THEATER

BARCO

Enjoy

PROFESSIONAL CINEMA QUALITY AT HOME



BARCO's CINE- projectors especially developed for the home theater give you the thrill of the ultimate movie experience. Not only do BARCO projectors deliver a picture far superior to any other projector, they also maintain a high degree of flexibility.

All BARCO's projectors can be used for front or rear screen projection, on flat or curved screens, while mounted on the ceiling or on a coffee table. They can easily be integrated in any existing or newly designed interior.

Freed from constraints of old fashioned projection televisions, it is now possible to do the impossible. For example, imagine giving a voice command and seeing your projector emerge from concealment within the ceiling. At the same time, the screen is lowering, the drapes are closing and the lights are dimming! When the show is over, your projection system disappears

from view and your drapes and lights return to normal.

These are but some of the reasons why many business executives, movie stars and industry leaders are proud BARCO owners.

With BARCO Projection equipment, you bring the movies in your home the same way the film director wanted them to be.





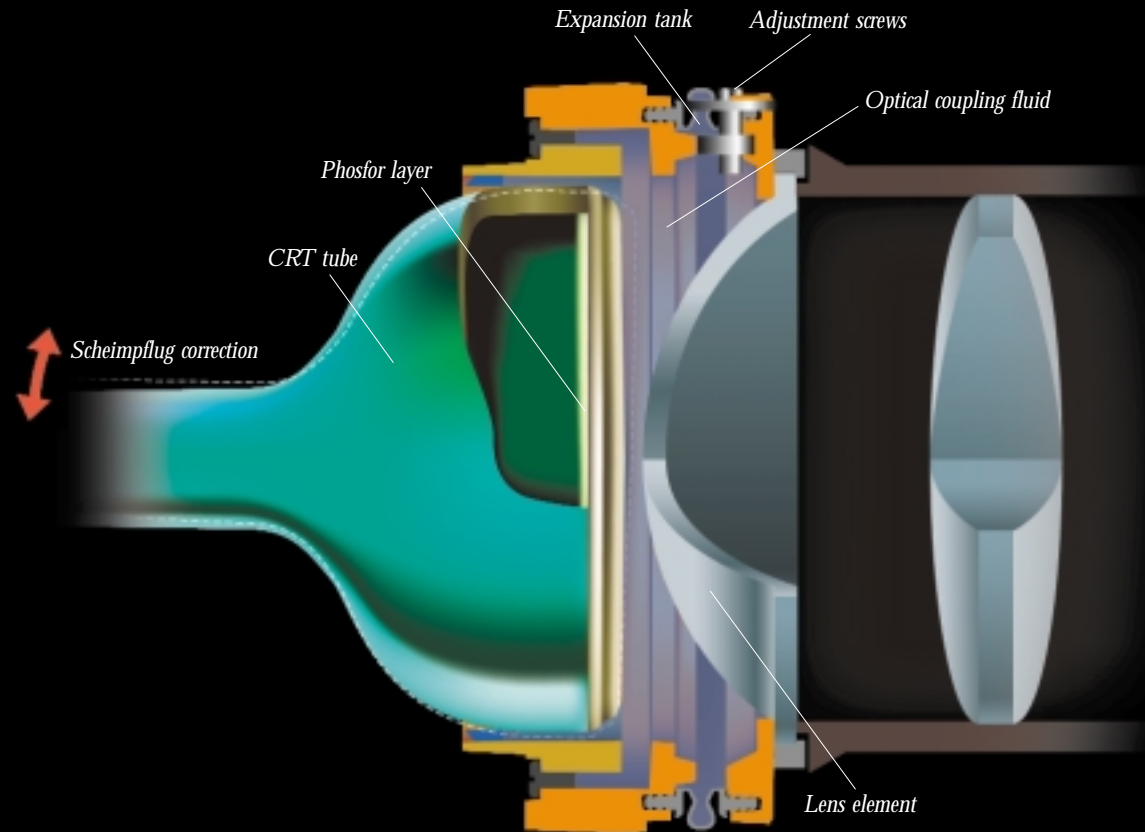


THE PROFESSIONALS' CHOICE FOR PERFECT VIDEO CRT Technology

Over the past ten years, the professional projection market has seen many new technologies enter: LCD, Poly-Silicon and DLP Technology all seemed to obliterate CRT technology that was dominant for 20 years. For industrial and professional applications, BARCO offers high quality projectors based on any currently available technology. Although these technologies offer major advantages in many aspects (brightness, compactness, set-up), CRT technology has features, crucial for Home Cinema, that none of them can rival.

Still today, CRT based projectors are the only ones that have a **variable output resolution**: whatever input resolution the projector is provided (575/625 Lines, 800x600, 1024x768, ...), the output resolution of the projector is identical to the input. In contrast, all other current projection technologies have a fixed output resolution that is performing optimal for one input resolution; all other input resolutions need to be converted, always resulting in visible artifacts. Moreover, the fixed output resolutions of LCD and DLP projectors result in a visible grid giving the impression that you are watching through a chicken wire.

A second aspect is the **unequalled dynamic range** offered by CRT technology: CRT projectors are the only ones that can project absolute black. All other technologies have some form of "light leakage", producing a grey shade instead of pure black, which results in washed out pictures. This together with the capability of projecting high peak brightness levels make that CRT



technology offers an unsurpassed visual dynamic range. Similar like in the Audio World, the higher the dynamic range, the more details of the original recording become visible in the projected image. CRT tubes are driven by analog signals. These are able, within this extraordinary dynamic range, to reveal the most tiny and subtle details both in dark and bright areas of the projected image. In audio terminology one would speak of Signal to Noise Ratio (S/N). A typical LCD-projector hardly reaches a S/N of about 25 dB, far less than what can be achieved with CRT projectors.

One of the most valuable assets of CRT-projectors for video use however is the **accurate color reproduction**. As all existing standards, including HDTV, are based upon reproduction by CRT technology, CRT projectors are simply unbeatable in terms of color fidelity. No wonder, when considering that the predefined Red, Green and Blue color primaries from the phosphors used in today's CRT-projectors, are the same as the ones being used in Color TV's. Also the non-linear reproduction curve defined by video standards is a natural in CRT projectors. Other technologies have to add complex "Gamma Correction" circuitry to mimic the reproduction curve of a CRT as good as possible, often resulting in unnatural color reproduction and incorrect hues.

For High End Home Theater, CRT technology has the advantage. Through our vast experience in this field, BARCO CRT projectors have become the preferred equipment for the real Home Theater enthusiast, who refuses any compromise.

CREATING

the **Right
Atmosphere**

With the BARCO CINE projector range, you can now experience how exciting large screen video projection can be. Imagine the impact of large true-to-life images, with unparalleled clarity, deep, rich contrast and exceptional color fidelity. Only BARCO can deliver these images to your home theater as a result of its many years of experience in designing professional projection systems for the most demanding industrial and high-end applications.

Our unique position as manufacturer and not as provider only, gives us complete control over research, design and production of each essential element of the famous BARCO products. Better than anyone, we are able to calibrate and match each component to get the highest possible performance, at no compromise. Our design makes the difference between a real Cinema quality projection and an ordinary picture full of technology trade-offs.



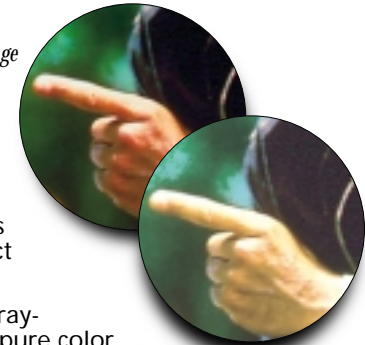


BARCO image

True-to-Life Colors

Electronic correction circuits continuously monitor the red, green and blue projection CRTs and automatically correct for any color deviations.

The result is improved gray-scale tracking, perfectly pure color reproduction and excellent long-term stability over the entire range of image brightness, even at low intensities.



Conventional image



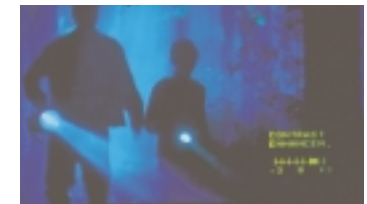
Grayscales in a projected BARCO image



Grayscales in a conventionally projected image

Contrast Ratio

The contrast ratio will determine whether the projected result shows the original recorded movie in all its splendor or not. With a contrast ratio of more than 1000:1, no other projection technology is able to come even close to the extensive grey scale performance and color variations offered by BARCO CRT projectors



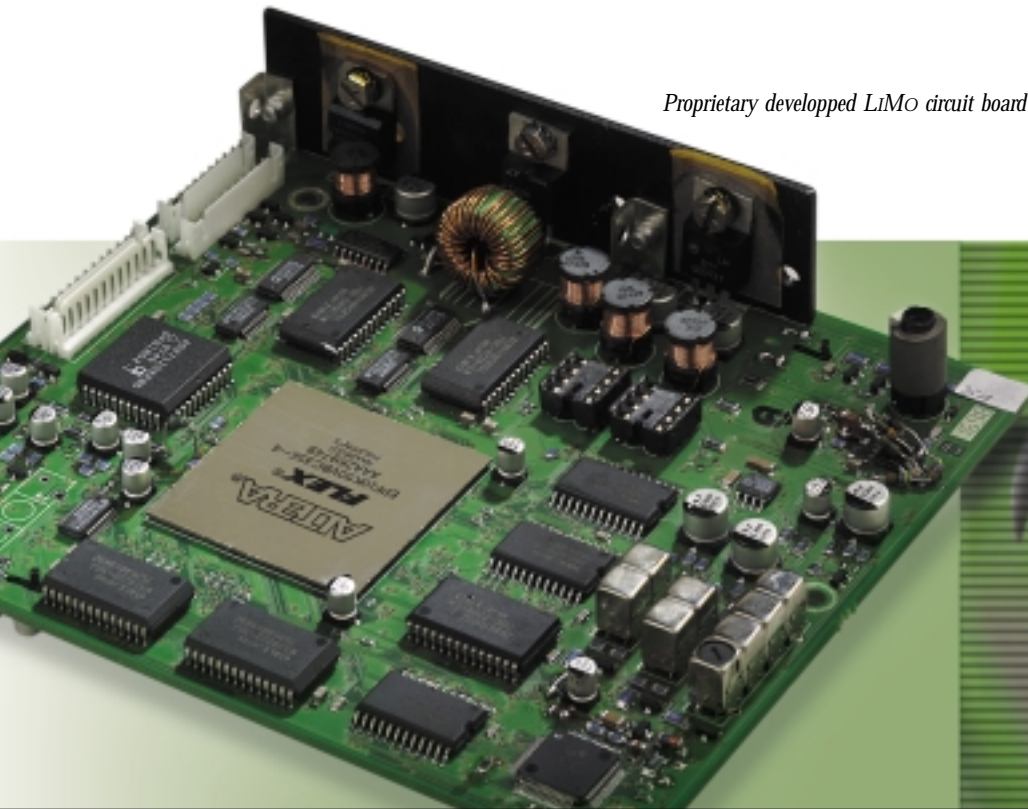
Easy contrast adjustment through on-screen menu

Ultimate Black Level Performance

Typical images on DVD or any other video carrier contain between 30% to 97% dark scenes. This makes black level performance tremendously important for the amount of detail and realism in the projected image.

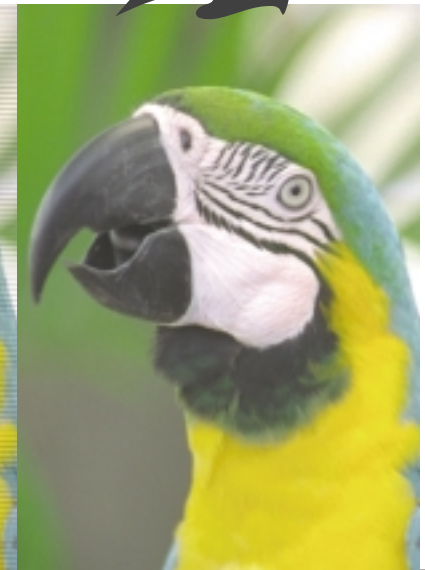
DIGITAL TECHNOLOGIES for a Striking Video

IMAGE

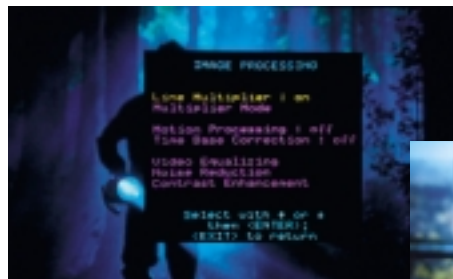


Proprietary developed LiMO circuit board

Unprocessed video image from sources like DVD or VCR



Line Multiplier (LiMO) main menu with enhanced features list



LiMO's Video Equalizing control window

BARCO's LINE DOUBLER (LiDO) greatly reduces visible line structure inherent in video by doubling the number of lines and enhancing picture detail. The result is a smoother, flicker-free video image.

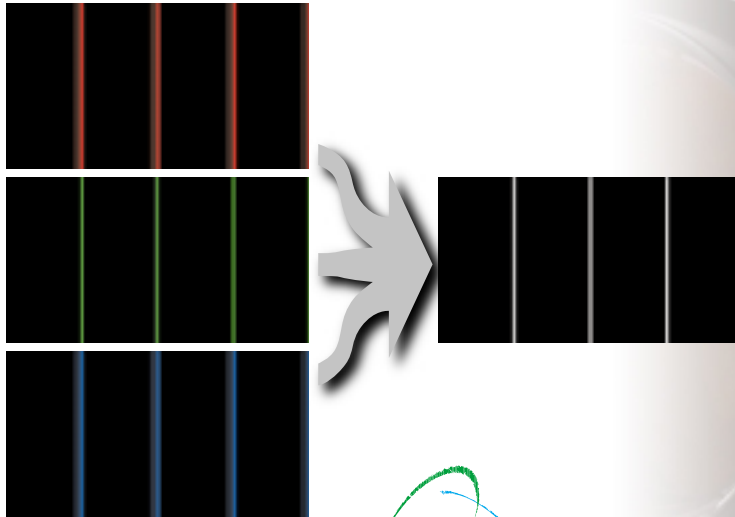
BARCO's LINE MULTIPLIER (LiMO) converts video line structures through advanced linear interpolation into high-resolution images equaling 35mm cinema quality. The LiMO combines the power of Line Quadrupling and Frame Doubling (100/120Hz) and offers many enhanced features:

- 3-Band Video Equalizer
- Film Mode Detection
- Digital Noise Reduction
- Digital Contrast Enhancement

AUTOMATIC CONVERGENCE

for a **Perfectly Aligned**

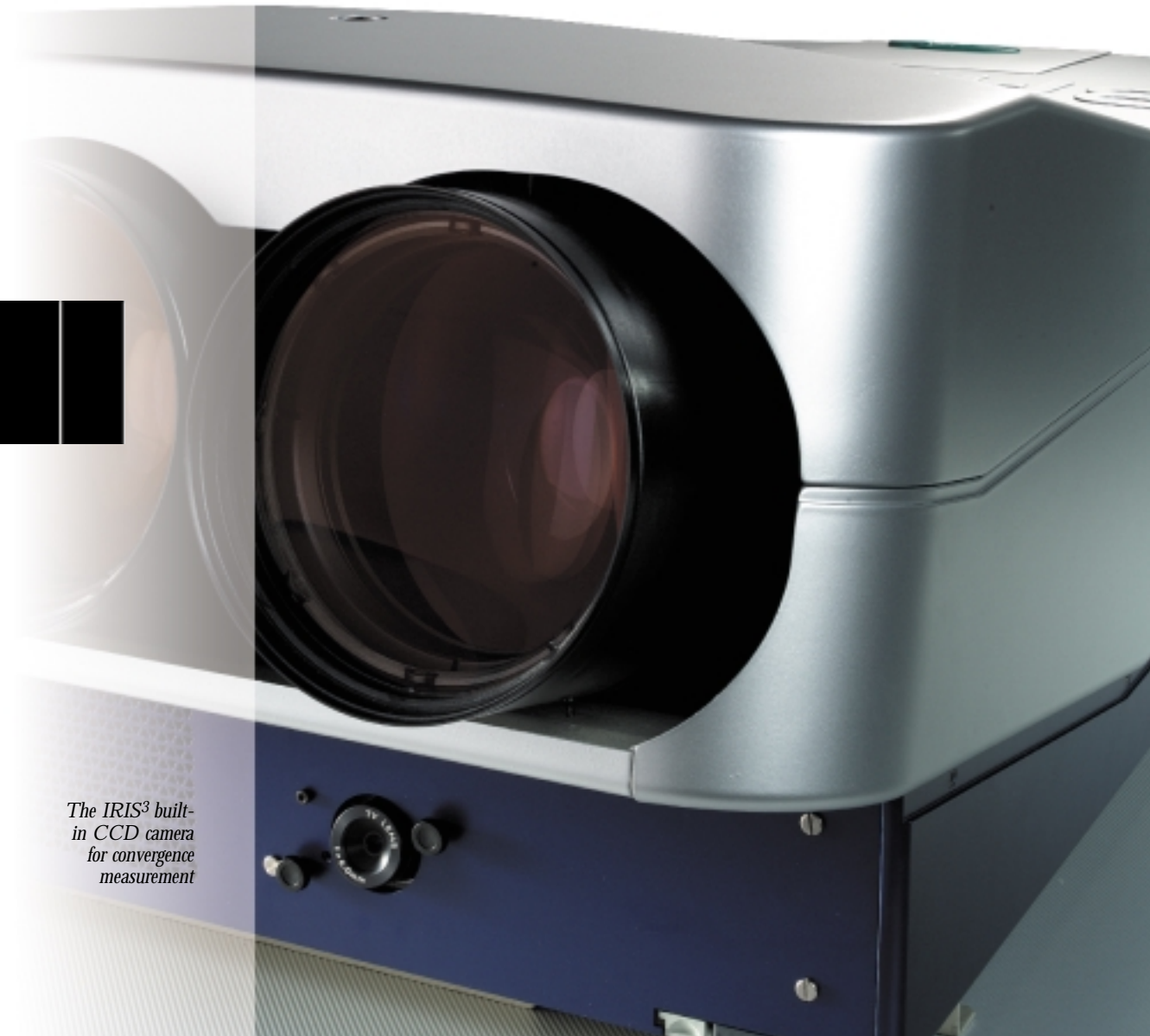
PICTURE



IRIS³ makes it easy

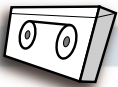
BARCO's unique and patented IRIS³ built-in convergence system automatically aligns both the geometry and convergence for any connected source at the push of a remote control button. The combination of DSP algorithms, advanced interpolation methods and a built-in CCD camera guarantees the best possible image projection at any time.

The IRIS³ built-in CCD camera for convergence measurement



Boundless

INPUT COMPATIBILITY AND EASE-OF-USE



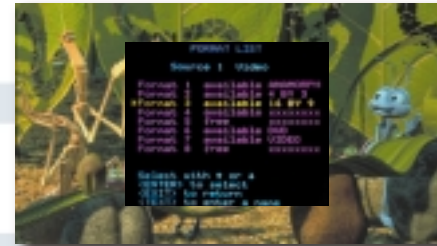
BARCO Projection Systems offers you a future-proof system to meet the needs of even the most consummate home theater enthusiast. Not only are all CINE projectors designed to accommodate all worldwide video standards (Pal, Secam, NTSC) as well as Component, S-Video (Y/C) or composite video, they are also compatible with all currently proposed HDTV formats (480p, 720p, 1080i or 1080p) in either 4:3 or 16:9 aspect ratio format.

Each BARCO projector has an unlimited compatibility with sources such as DVD, HDTV, laser disc, analogue and digital video tape recorders, videogame consoles, camera, and demodulated satellite and antenna signals as well as computers. BARCO projectors make it not only possible to experience cinema excitement but let you also enjoy breathtaking game action, web surfing, interactive video entertainment or even revive your precious family moments.

Extreme ease-of-use

But you don't need to have a PhD in engineering to handle our projectors. Convenient, well organized on-screen menus simplify all adjustments of the projector, even for first-time users.

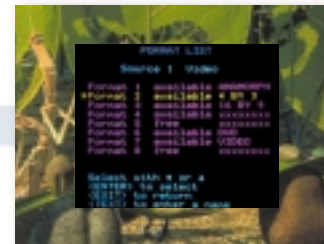
All displaying settings (brightness, contrast, color, tint, and sharpness) as well as all geometry and convergence settings can be programmed and stored for each source. Because the projector automatically selects the settings for the source in use, the BARCO projector provides consistently perfect image quality. All projector alignment and fine-tuning parameters can be locked through the use of a password.



Easy Format Switching

Every possible screen ratio can easily be programmed for each source, but a simple touch on a button of the remote is enough to switch to another.

16:9



4:3

Stunning videogame action

Explore the world on CDROM



The kids' favorites on videotape

Your holiday pictures



User-friendly Remote Control

With a simple touch on your backlit infrared remote control you supervise all settings: brightness, contrast color, tint and sharpness and easy switching between different screen formats.



Watch the latest DVD-movie release

Browse the World Wide Web

Live satellite broadcast



Fawless Integration INTO YOU



For many years, BARCO has been a world leader in high performance projectors for high-end professional applications. By applying these skills, BARCO is able to offer you today a powerful home theater far beyond typical consumer product manufacturers. No other installation will impress your family and friends more than this centerpiece of extreme powerful technology with images so true-to-life that they appear as bright and crisp as normal film, featuring unparalleled clarity, deep rich contrast and unrivalled color purity.



BARCO projectors are the choice of many interior designers. Interior designer Ghysens integrated a Cine 7 in the retractable center of a coffee table.

Color options

For smooth integration, every CINE projector is available with silver metallic cover or beige matte finish for cover and side panels.

R EXISTING INTERIOR DESIGN

Thanks to their extensive but still comprehensive remote control and their compact and stylish design, BARCO CINE projectors can equally be integrated in the ceiling or mounted on the ceiling at your home.

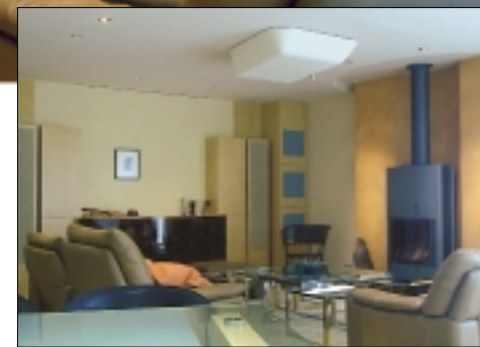


Thanks to their stylish design and the array of innovative features BARCO CINE projection systems are becoming the choice of leading interior designers. They are equally at home hidden in the ceiling or built into a coffee table. The exceptional brightness means there is no requirement for bulky curved high gain screens. Instead, flat fixed or retractable screens work perfectly.

In rear-screen configurations the projector can be stored away in a shallow technical area and the image is reflected through a mirror onto the screen. This area can accommodate all further video- and audio equipment.



When the screen is lowered the room is converted into an exciting home theatre, when the screen is pulled up the room retrieves its initial look and feel.



Your authorized BARCO dealer will be glad to assist you in finding a tailor-made and exclusive Home Theater solution.

**Light output**10% Peak White
ANSI1000 Lumen
1401100 Lumen
1801200 Lumen
220**Contrast Ratio**

> 1000/1

> 1000/1

> 1000/1

CRT'sFocussing
Liquid Cooling
Optical Coupling7"
Electrostatic
•
•7"
Electrostatic
•
-8"
Electromagnetic
•
-**Lenses**Color Filtering
Color Correction
Optical Resolution
Sheimpflug CorrectionF1,15
-
-
5lp/mm
-F1,03
•
•
10lp/mm
DiscreteF1,06
-
•
10lp/mm
Stepless**RGB Bandwidth**

20 MHz

75 MHz

120 MHz

ResolutionVideo and HDTV
Computer Sources800 TV Lines
800x6001000 TV Lines
1280x10241200 TV Lines
1600x1200**Scan Frequencies**Horizontal
Vertical28-38 kHz
50-60 Hz (autolock)15-69 kHz
37-210 Hz (autolock)15-110 kHz
37-210 Hz (autolock)**Minimal Retrace Time**Horizontal
Vertical5µs
600µs3,3µs
450µs2,5µs
300µs**Geometric Distortion**

< ± 3%

< ±2%

< ±2%

Inputs

Standard

Standard

Gold Plated BNC

Available OptionsTuner
IRIS³ Automatic Convergence
LiDo Line Doubling
LiMo Line Quadrupling
Frame Doubling (100/120 Hz)
3-Band Video Equalizer
Film Mode Detection
Digital Noise Reduction
Digital Contrast Enhancement•
•
Built-in
-
-
-
-
-
--
Built-in
•
•
•
•
•
•
•-
Built-in
•
•
•
•
•
•
•



Inputs

- Video (PAL, SECAM, NTSC 3.58, NTSC 4.43)
- S-Video 4-pin (Y/C)
- RGB or Component Video on BNC connectors (sync on green, separate sync, standard sync or Tri-level sync)

Screen Size

- 4:3
Min.: 2m x 1.5m / 6.7' x 4.9'
Max.: 6m x 4.5m / 19.7' x 14.8'
- 16:9
Min.: 2m x 1.13m / 6.6' x 3.7'
Max.: 6m x 3.38m / 19.7' x 11.1'

Electromagnetic Interference

All BARCO CINE projectors comply with FCC Rules & Regulations, Part 15 class B and CE EN55022 Class B.

Safety Regulations

All BARCO CINE projectors comply with UL 1950 and 60950.

Weight	lbs.	kg
CINE 6:		
Net weight:	70	32
Shipping weight:	108	49
CINE 7:		
Net weight:	84	38
Shipping weight:	121	55
CINE 8:		
Net weight:	148	67
Shipping weight:	183	83

AC power

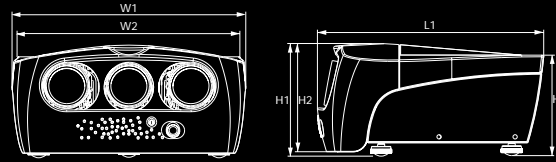
CINE 6	250 W
CINE 7	450 W
CINE 8	500 W



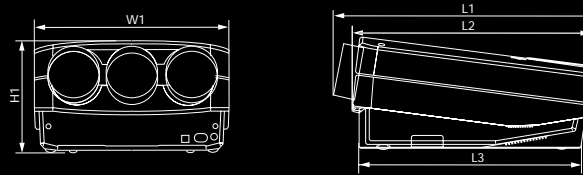
Gold plated BNC input connectors on the CINE 8

Dimensions

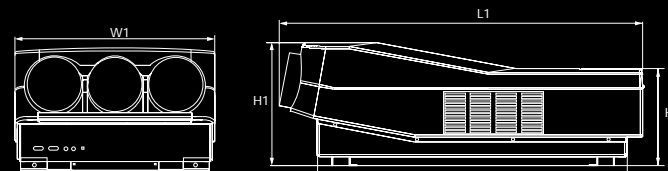
CINE 6	inch	mm
L1	25.16	639
H1	12.52	318
H2	12.00	305
H3	11.18	284
W1	25.98	660
W2	24.73	629



CINE 7	inch	mm
L1	28.62	727
L2	26.34	669
L3	24.45	621
H1	11.89	302
H2	0.19	5
W1	21.65	550



CINE 8	inch	mm
L1	42.36	1,076
L2	35.98	914
L3	28.66	728
H1	14.25	362
H2	11.26	286
W1	23.23	590



Order Information

Ceiling mounts:

CINE 6 Included

CINE 7

- With pulley system R9827390
- Without pulley system R9827391

CINE 8 (CM 1206 / 808)

- With pulley system R9827341
- Without pulley system R9827342

LINE DOUBLER Kit (LiDo) R9828161

LINE MULTIPLIER Kit (LiMo) R9828630

Communication cables:

16 ft. / 5m R9827770

50 ft. / 15m R9827560

100 ft / 30m R9827570

BARCO Projection Systems Head Office
Noordlaan 5 8520 Kuurne, Belgium
Tel.: +32 56 36 82 11 Fax: +32 56 35 16 51
e-mail: sales.bps@barco.com

Barco Projection Systems America
3240 Town Point Drive, Kennesaw, GA 30144
Tel. +1 (770) 218-3200 Fax +1 (770) 218-3250
e-mail: sales.us.bps@barco.com

Visit BARCO on the web: www.barco.com

BARCO

DESIGNED UNDER
ISO
9001

BARCO Projection Systems
is an ISO 9001 registered
company.

The information and data given are typical for
the equipment described. However any individual
item is subject to change without any notice.

Ref. n° R599501 - 01 November 1999