

# BARCOVISION 1609s

## The Ultimate in High Brightness Video Projection

The BARCOVISION 1609s is BARCO's new high-performance large screen CRT projector for the projection of extremely bright Video and HDTV pictures on screens up to 6.6 m (22 ft.) wide.

The BARCOVISION 1609s is ideally suited for sports and entertainment applications, electronic cinema, teleconferencing links, corporate presentations, trade shows, broadcast studios,...

### High-end Video projector with advanced optical system

- 9" CRTs with electromagnetic focus system
- Super-high brightness F1.07 lenses
- Compatibility with a broad range of Video inputs
- Outstanding contrast and colour fidelity
- Easy switching between 4:3 and 16:9 aspect ratio and other screen formats
- Built-in high quality Line Doubler (LiDo) for improved Video image quality
- 3-line Comb filtering for sharper, noise free Video images

### Broad compatibility

- Horizontal scan frequency of 15-18 kHz, 30-35 kHz and 60-64 kHz autolock
- Standard Video (PAL, SECAM, NTSC) as well as S-Video (S-VHS, Hi8)
- Line doubled and line quadrupled Video
- High definition, extended or improved television standards
- Compatible with standard as well as Tri-level sync signals

### Unequaled flexibility

- Built-in Scheimpflug optical correction, with stepless adjustment, for optimal optical focus for projection under non-standard angles
- Built-in IRIS<sup>2</sup> automatic convergence system aligns on-screen convergence in less than 2.5 minutes
- RS232 loop-through input (D9-connector) for external projector control (PC,...)



# Technical specifications

## Light output

At 10 % peak white: 1,600 lumens  
ANSI lumens:  
Economy mode: 210 ANSI lumens  
Normal mode: 270 ANSI lumens  
Boost mode: 310 ANSI lumens

## CRTs

High brightness, high definition liquid cooled 9" CRTs with electromagnetic focus system

## Lenses

Super high brightness F1.07 lenses, liquid coupled for maximum contrast<sup>(1)</sup>

## Screen width

Min.: 2 m (6.6 ft)  
Max.: 6.6 m (22 ft)

## Scan frequencies

Horizontal: 15-18, 30-35, 60-64 kHz autolock  
Vertical: 37-200 Hz autolock

## Minimal retrace time

Horizontal: 3.3 µs  
Vertical: 300 µs

## RGB bandwidth

60 MHz [-3 dB]

## Inputs

- RGB or (R-Y, B-Y, Y) input on 5 BNC-connectors, with automatic sync detection and sync polarity, with sync on green or separate sync, standard or Tri-level sync
- RGB analog input on D9-connector, with automatic sync detection and polarity (optional D9-BNC adapter available)
- Video (PAL, SECAM, NTSC 4.43, NTSC 3.58) loop-through (2xBNC), with 75 Ohm termination switch
- S-Video input (4-pin mini-DIN), loop through with 75 Ohm termination switch (can also be programmed as a second Video input)
- RS232 loop-through input (D9-connector) for external projector control (PC,...)

## Special features

- LDI (Linear Digital Interpolation)

- CRT drive in 3 modes: normal mode, economy mode for longer life time of the CRTs, and boost mode for special applications
- On-screen menus selectable between English, French, German and Spanish
- Easy switching between 4:3 and 16:9 and other screen formats
- 32 frequency-related memory banks
- Automatic storing of all adjustments
- Built-in Scheimpflug optical correction
- Ability to set parameters to midposition
- Colour temperature adjustment (3200 K, 4900 K, 6500 K, 9300 K or custom)
- Built-in projection distance calculator
- Built-in IRIS<sup>2</sup> automatic convergence unit
- Built-in high quality Line Doubler (LiDo)
- 3-line Comb filtering
- Compatible with standard as well as Tri-level sync signals

## AC power consumption

520 W max

## Weight

Net weight: 75 kg (165 lbs)  
Shipping weight: 105 kg (231 lbs)

## Safety regulations

The BARCOVISION 1609s complies with UL 1950 and EN60950.

## Electromagnetic interference

The BARCOVISION 1609s complies with FCC Rules & Regulations, part 15 Class B (120 V version) and CE EN55022 Class B (230 V version)

## Order information

BARCOVISION 1609s  
230 V R9002240  
120 V R9002249  
RCVDS 05 source selector  
230 V R9827880  
120 V R9827889  
VS05 Video/HDTV source selector  
R9827890  
Projector Control software  
R9827530

## Executive remote control

R9827970

## Remote infrared receiver

R9827515

## D9-BNC cable adapter

R9827840

## Communication cables

5 m (16 ft.) R9827770  
15 m (50 ft.) R9827560  
30 m (100 ft.) R9827570

## Ceiling mount 808/1200

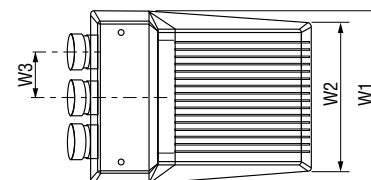
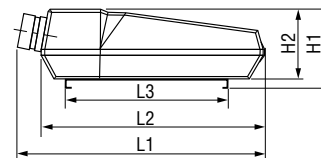
- With pulley system R9827341
- Without pulley system R9827342

## Flightcase

R9827650

## Special add-in boards

- Contrast modulation kit R9828145
- Orbiting kit R9827781
- Convergence on green R9828080



Dimensions	mm	inch
L1	1,105	43.5
L2	1,014	39.9
L3	735	28.9
H1	355	13.9
H2	315	12.4
W1	782	30.8
W2	665	26.2
W3	208	8.2

(1) Optional high definition F1.15 lenses are available

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.



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