

# Celebrating 20 years in CRT Excellence!



## CINE 8 ONYX

To celebrate its 20<sup>th</sup> anniversary in CRT Projection, BARCO is proud to introduce a special limited edition of 40 projectors based on the famous CINE 8. Equipped with specially designed optically coupled and color filtered optics, the CINE 8 Onyx comes in a special black cabinet and is standard equipped with BARCO's LiMo Pro Video Processor and with a Contrast Modulation board for perfect uniformity. Next to that, it offers 8" Electromagnetic focus lenses and High Bandwidth RGB amplifiers to offer some of the finest detail and smooth film-like video reproduction you have ever experienced.

### **Extremely High Definition**

- 8" Electromagnetic Focus CRTs
- Optically coupled, color corrected and color filtered lenses
- Hybrid thick-film RGB Amplifiers with a 120 MHz Bandwidth

### **Excellent Film Reproduction**

- Extreme High Contrast Ratio of over 30,000:1
- High Bandwidth multi-standard Video Decoder for Composite, S-Video and Component video channels
- LiMo Pro Video Processor with 3:2 and 2:2 reverse telecine
- Contrast Modulation to compensate for "Hot Spot" and "Color Shift" on high gain screens

### **Wide Installation Flexibility**

- Compatible with all Video and HDTV standards up to 1080p
- Up to 8 different programmable screen formats for each input source
- IRIS3 Automatic Convergence and Geometry alignment system
- Linear Digital Interpolation calculates optimum settings for newly connected sources
- Built-In Projection Distance Calculator
- Multi-language on screen menus

### **Special Edition**

- "Black Speckle Suede" finish with silver Onyx logo
- Certificate of Authenticity for each individual projector

# Cine 8 Onyx Specifications

## CRTs

High Brightness, High Definition 8" Electromagnetic focus CRTs

## Lenses

- High Definition, color corrected F1.18 lenses
- Optimised for screen sizes between 90" and 140" diagonal
- Coupling and Cooling through optical liquid between Lens and CRT
- Color Filters on Red and Green lenses for perfect color primaries

## Contrast

Full ON/OFF Contrast Ratio: over 30,000 to 1

## Brightness

1,100 Lumens Peak White

## Acoustic Noise

< 32dBA (measured according ANSI S1.34-1988, ISO 7779 and ECMA 74, average of all direction measured at 1 meter from center at 20°C)

## Screen Sizes

- 16:9 format
  - Minimum: 1,70 x 0,96 m (77" Diagonal)
  - Optimum: 2,80 x 1,57 m (126" Diagonal)
  - Maximum: 4,60 x 2,59 m (208" Diagonal)
- 4:3 format
  - Minimum: 1,70 x 1,27 m (84" Diagonal)
  - Optimum: 2,80 x 2,10 m (138" Diagonal)
  - Maximum: 4,60 x 3,45 m (226" Diagonal)

## Resolution

1200 TV Lines (Shrinking Raster Method)

## RGB Bandwidth

120 MHz @ -3dB

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## Scan Frequencies

- Horizontal: 15 – 110 kHz Auto-lock
- Vertical: 37 – 200 Hz Auto-lock

## Retrace Times

- Horizontal: < 3.3µS
- Vertical: < 300 µS

## Horizontal Linearity

< 1.5% distortion throughout the full horizontal frequency range

## Inputs Section

- RGB or Component (R-Y, Y, B-Y) input on 5 BNC connectors. Sync on Green (RGsB), Separate (RGBHV) or Composite Sync (RGSB). Automatic Sync Detection and Sync polarity.
- Second RGB input on D9 connector. Sync on Green (RGsB), Separate (RGBHV) or Composite Sync (RGSB). Automatic Sync Detection and Sync polarity. Optional D9 to 5BNC Cable adapter available.
- Composite Video (PAL / SECAM / NTSC 4.43 / NTSC 3.58) loop through input on 2 BNC connectors with 75 Ohm termination switch
- S-Video loop through input on 4 pin mini DIN connector with 75 Ohm termination switch. Can also be programmed as a second Composite Video input.

## Special Features

- CRT Drive in 3 modes: normal mode, economy mode for longer CRT lifetime, boost mode for special applications
- Multi-language on-screen menu's: English, French, German and Spanish
- 32 frequency related memory banks
- LDI (Linear Digital Interpolation) calculates optimum settings for newly connected sources
- Color Temperature adjustment: 3,200°K / 4,900°K / 6,500°K / 9,300°K / Custom
- IRIS3 Automatic Convergence and Geometry alignment system
- On Screen Projection Distance Calculator

## LiMo Pro Features

- Line Doubling, Tripling or Quadrupling
- Frame Doubling (100/120 Hz)
- Film Mode Detection (2-2 and 3-2 pull down)
- 3 Band Video Equalizer
- LTI (Luminance Transient Improvement) and CTI (Color Transient Improvement) with Coering function (Treshhold level)
- Digital Noise Reduction
- Digital Contrast enhancement (Gamma Correction)
- Steady Sync™ Time Base Corrector

## Power Consumption

Typical 500W

## Power Dissipation

< 1850 BTU/hr

## Safety Regulations

The CINE 8 Onyx complies with UL1950 and EN60950

## Electromagnetic Interference

The CINE 8 Onyx complies with FCC part 15 Class B and CE EN55022 Class B

## Weight

- Net weight: 67 kg (148 lbs)
- Shipping weight: 83 kg (183 lbs)

## Order Information

- BARCO CINE 8 Onyx R9002430
- Ceiling Mount with Pulley R9827341
- Ceiling Mount without Pulley R9827342
- D9 to 5 BNC Cable Adpater R9827480



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.



**BARCO**