

# CONTRAST MODULATION

## For BARCO's Large Screen CRT Projectors

BARCO's new Contrast Modulation circuitry is designed to improve overall luminance uniformity and to overcome the inherent color shift errors normally associated with CRT projection.

### System Concept

The laws of physics applied to projection optics dictate that the center of the projected image will be brighter than the corners, a phenomenon normally referred to as 'corner fall off'.

Due to the normal off-axis projection of the red and blue images, CRT projection displays a phenomenon referred to as 'color shift', whereby one side of the image is redish and the other bluish. By modulating the amplitude of the input signal with waveforms it is possible to overcome both of these problems.

BARCO's Contrast Modulation circuitry allows the projected image to have a much more uniform and natural appearance. These characteristics are essential for discriminating applications where the projected image must be viewed critically.

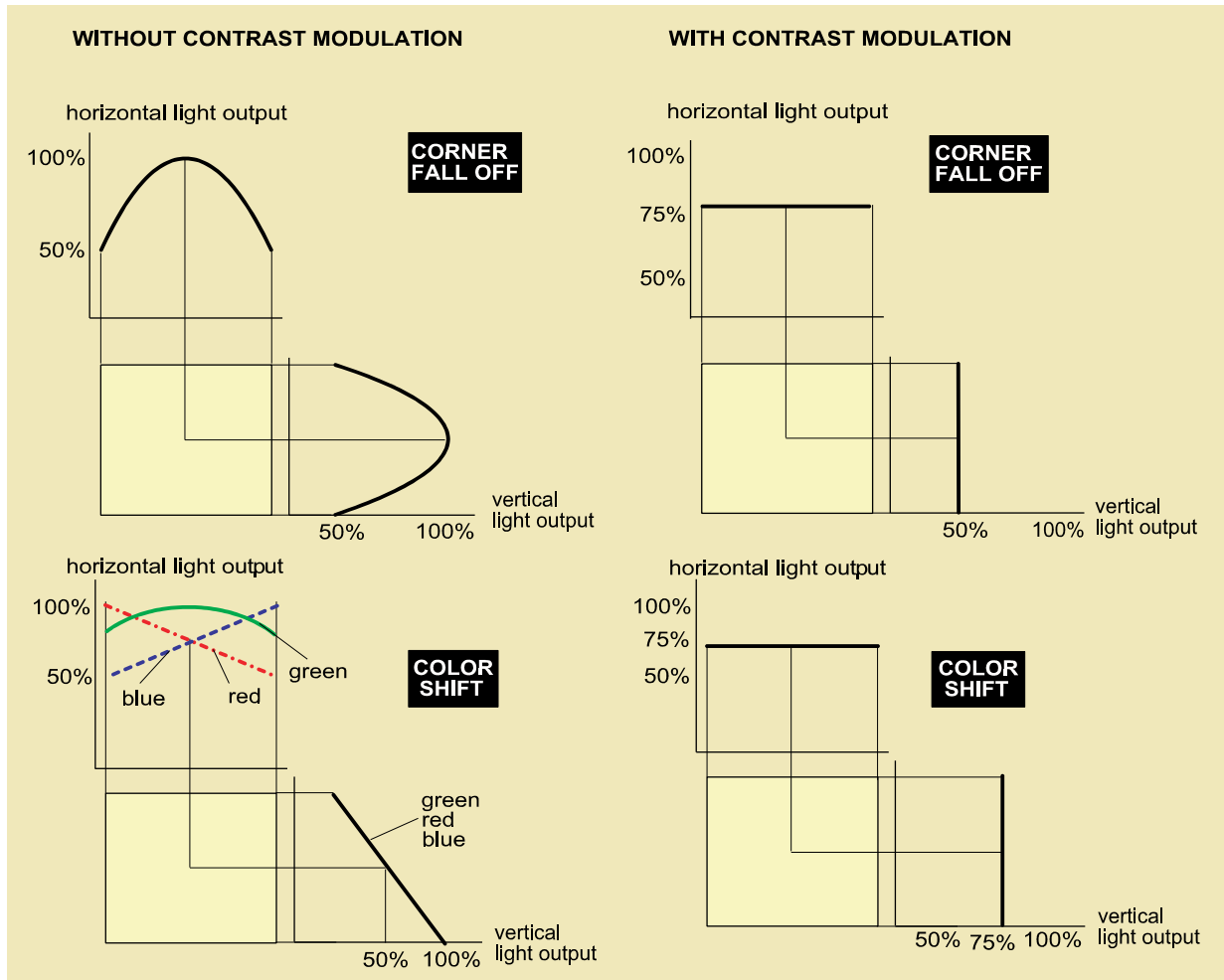


*Figure 1 : The laws of physics applied to projection optics dictate that the center of the projected image will be brighter than the corners, a phenomenon normally referred to as 'corner fall off'.*



*Figure 2 : BARCO's Contrast Modulation circuitry allows the projected image to have a much more uniform and natural appearance.*

# Technical Specifications



## Specifications

- Can be implemented in all BARCO CRT projectors
- Improves overall luminance uniformity
- Modulates red and blue video signals to overcome color shift errors
- High speed circuitry maintains full projector bandwidth
- The Contrast Modulation board occupies the space of the input module on port 3. Source 3 (second RGB analog input) is no longer available. Not applicable for the 708 Series

## Compatibility

Compatible with all current model BARCO CRT projectors. Please inquire with BARCO for older model compatibility.

## Order Information

Factory fitted Add-In Board CM Contrast Modulation Kit  
R9828145



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, Inc.  
3240 Town Point Drive  
Kennesaw, GA 30144  
Tel: (770) 218-3200 Fax: (770) 218-3250  
E-mail: sales.us.bps@barco.com  
Visit BARCO at the web: www.barco.com

