

# MCM-400 HFR

External warping, blending and color matching box for Barco Galaxy and HDQ 4K projectors



The MCM-400 HDF serves as input processor on Barco's Galaxy/HDQ 4K series projectors allowing geometry correction, color correction, brightness monitoring and electronic blending. By using a real-time on-screen user interface, the MCM-400 HDF helps achieve the performance known from Barco's higher end 4K simulation projectors. In this way, this box enables several multi-channel configurations with multiple 4K projectors.

## Suited for mono and 3D-stereo sources

The MCM-400 HFR handles both mono and stereo sources up to 60 Hz. Native 4K Active or passive stereo sources are converted into an active flicker-free stereo signal up to 120 Hz.

Four DisplayPort inputs allow 4K sources to be connected in 4 quadrants of 2048 by 1080 pixels, or two columns of 2048 by 2160 pixels, which simplifies pre-view capabilities. Both mono (including encrypted HDCP content) and stereo sources are shown synchronously with the input, at a minimum delay.

## Easy to control

The MCM-400 HFR can be controlled by means of an IR remote with an on-screen menu, or through IP. The latter allows easy integration with touch panels for convenient source switching and different geometry files.

Suitable for all environments:

- Larger collaboration rooms, both flat and curved
- 3D visualization as used in automotive, oil & gas, scientific research and urban planning
- Multi channel blended rental & staging applications
- High resolution command and control displays

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## Product specifications

## MCM-400 HFR

<b>Inputs</b>	4 times DisplayPort 1.1a that allows native 4K @60 Hz in : - two columns 2 x 2048 x 2160 or - quad configuration 4 x 2048 * 1080 Stereo sync input on 4 mini-din connectors.
<b>Input frequency</b>	Mono : 24-60 Hz (60 Hz optimal) Stereo : 24 - 60 Hz
<b>Outputs</b>	2 times DisplayPort 1.1a to drive 4K projector native in two columns 2 x 2048 x 2160
<b>Output frequency</b>	24-60 Hz
<b>Network connection</b>	Ethernet 10/100 RJ45
<b>WARP</b>	Hardware based real-time warping with easy on-screen menu
<b>Color correction</b>	Advanced color matching (Dynacolor) with linking capability
<b>Features</b>	Pixel accurate alfa and beta planes - Advanced electronic blending - 4 quadrants input capabilities - outstanding anti aliasing - Linked constant brightness monitoring between multiple projectors
<b>Mechanics</b>	Rack mount kit included
<b>Control</b>	Through IR remote control or IP
<b>Dimensions (HxWxD)</b>	4 RU 295 mm x 290 mm x 215 mm (11.6" x 11.4" x 8.46")
<b>Weight</b>	6.11 kg (without packaging); 7.11 kg (with packaging)
<b>Power</b>	External power supply: 100-250V 50/60 Hz
<b>Power consumption</b>	77.3 W
<b>Heat dissipation</b>	264 BTU/h
<b>Stereo support</b>	Both passive and active stereo input capabilities
<b>Compatibility</b>	Only with Barco Galaxy and HDQ 4K series
<b>Electromagnetic Interference</b>	Complies with FCC rules & regulations, part 15 Class A and CE EN55022 Class A
<b>Ambient temperature</b>	Max: +40°C   104°F Min: +10°C   50°F Storage: -35°C to +65°C   -31°F to 149°F
<b>Humidity</b>	Storage: 0 to 98% rel. humidity, non-condensing Operation: 0 to 95% rel. humidity, non-condensing