Blend plate motorization

Automatic switching between optimal day and night settings

Creating perfect blends, while maintaining optimum optical quality in multiple projector display systems, can be a daunting and time-consuming task. During day mode the image needs to be as bright as possible with very sharp images; this is best achieved through ESEM (Electronic Soft Edge Matching) as no additional element is inserted in the optical path. During night mode double blacks need to be avoided while still preserving the system's overall contrast ratio; this is best achieved through OSEM (Optical Soft Edge Matching) using custom blend plates to render perfect blends.Although those blend plates can also be used for day modes, they age faster under high-light conditions (approximately four-fold) and add another optical element in the stack reducing the overall brightness and contrast ratio. With Barco's blend plate motorization the best of both worlds can now be combined to offer the best blending solution under all conditions: the blend plates used in night mode are moved out of the optical path during the day mode, increasing both the image quality during day mode as well as extend the life time of the blend plate. Support within the XDS RACU Golden Alignments allows for automatic transition from OSEM to ESEM and back.

Main benefits

· Excellent multi-channel blend quality at all times

· No image degradation during day time scenes
· No double blacks during night mode
· Substantial extension of blend plate lifetime

BARCO

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- Designed for perfect mechanical integration
- Minimal footprint
- Compatible with existing Barco blend plates & mounting frame
- Motion base compatible

- Barco support for easy system integration
- Full support embedded in XDS RACU & Golden Alignment
- Automatic reversal for additional pinch safety
- Standalone functionality possible

Product specifications	Blend plate motorization
Interface	USB control interface with unique serial number for identification
Switching Type	■ Single unit switches in 20s - this covers the blend plate switch only, not a possible visual system related reconfiguration that might be needed ■ A group of 20 units can switch within 1 minute ■ Lifetime expectation of more than 60,000 movements
Power Supply	90-220V, 1A max
Shock	4G peak during 3x 12.5 ms
Vibration	■ Sine: 3G peak (5-30Hz) ■ Random: 1G RMS (0-1000Hz) ■ In all three axes
Control	■ List connected devices ■ Status of a specific device (active/deactivated) ■ Activate/Deactivate specific device ■ Each system has unique ID, independent from USB connectivity and PC, allowing for easy system integration ■ Fully embedded inside XDS RACU Golden Alignment settings ■ Standalone test tool available for Windows XP and Windows 7 platforms as well, both 32 bit and 64 bit