

The new Harkness Hall Screen Checker is a low cost alternative to a 1° Spot Meter.

A directional reading of screen illumination is displayed using a line of amber, green and red LEDs. This represents a range between 3 and 30 foot-lamberts (fL), allowing the operator to measure the different illumination levels over the entire screen.

Application

- Measure screen brightness
- Allows accurate focusing of lamp
- Take periodic readings to check degradation of illumination
- Verify screen consistency throughout the cinema complex
- Potentially increase running hours from lamps

Procedure

Screen Checker will aid projectionists to focus the lamp in the lamp house, optimising the distribution of light on screen and improving the quality of film presentation.

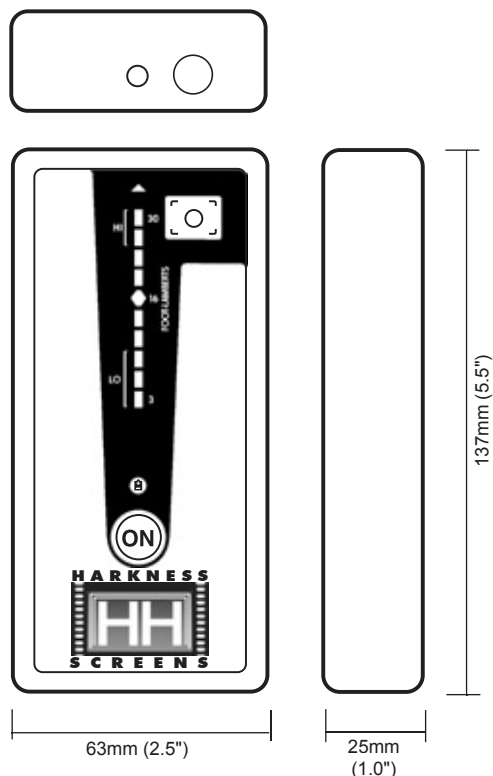
International standards for screen brightness (SMPTE) recommend a brightness level of 16fL at the centre of the screen with not more than 10% degradation at the edges.

With Screen Checker it is quickly possible to determine if recommended light levels are being achieved.

This is ideally done when installing a new Xenon lamp and then periodically to measure illumination degradation of the system. This can determine when the rectifier current must be increased due to dull light, or the need for the lamp, or screen, to be changed.

General Detail

Operation	Handheld / Directional
Control	Depress button
Measurement Range	3 - 30 foot-lamberts
Display	Amber, Green and Red LEDs
Construction	High impact polypropylene
Service	No serviceable parts (except battery)
Colour	Grey
Size	63mm (2.5in) x 137mm (5.5in) x 25mm (1in)
Weight	145g (5oz) - including battery
Power	1 x PP3 Battery



The low cost of the unit enables a cinema chain to issue a Screen Checker to each location, therefore ensuring a consistent standard of film presentation.

Operating Instructions

Detailed operating instructions are provided with each product.

Screen Checker is used in dark conditions with 'white' light from the projector (no film running).