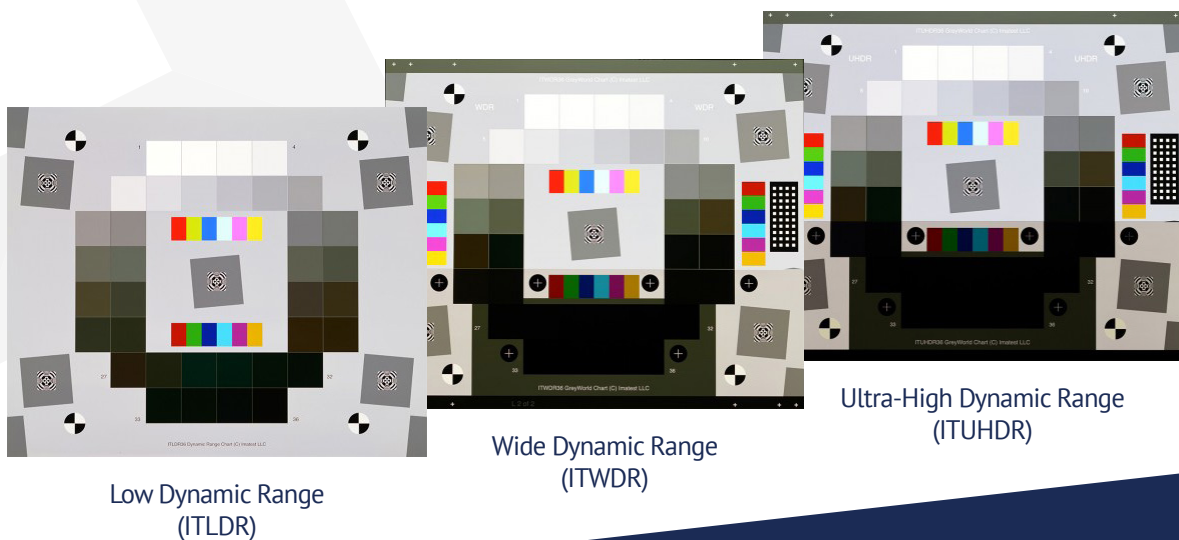

36-Patch Dynamic Range Charts

Charts for testing tonal response, noise, and dynamic range

Why Iimatest's Dynamic Range Charts?

The Iimatest 36-Patch Dynamic Range (ITDR) test charts have three density ranges to suit every need. The charts allow you to measure the tonal response, noise, and dynamic range of various imaging systems with a single image instead of multiple, exposure bracketed images. The middle gray background density enables proper exposure with automatic exposure cameras. Dynamic Range test targets with black backgrounds tend to overexpose the brighter patches with auto-exposure cameras.

www.imatest.com/36-patch-dynamic-range



Charts	Density	Aspect Ratio	Camera Types
Low Dynamic Range (ITLDR36)	50dB	4:5, 16:9	Small pixel cameras like camera phones or tablets
Wide Dynamic Range (ITWDR36)	100dB	4:5	High-quality cameras like DSLRs, and non-HDR specific devices
Ultra-High Dynamic Range (ITUHDR36)	150dB	4:5	High Dynamic Range (HDR) specific cameras

Imatest recommends using the Dynamic Range Targets with a high illuminance light source (between 10,000 and 100,000 Lux) in order to provide sufficient light to test image sensors over their range of sensitivity. These charts are well suited for measuring both camera and sensor dynamic range, which are fundamentally different.

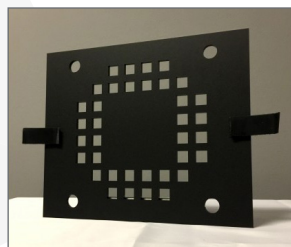
Standard Compliance

The Ultra-High Dynamic Range (ITUHDR) chart plus the Imatest DarkWorld Mask illuminated by a 100,000 Lux LED Light Box is compliant with the target definitions in the IEC 62676-5 standard.

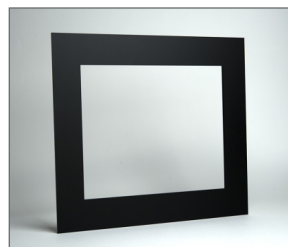
Related Products



10,000-100,000 Lux LED Light Box



Imatest DarkWorld Mask



Acrylic 4:5 Chart Frame

To simulate a more ideal dark night scene, the DarkWorld mask can be applied within the framed 4:5 target. This will cut down on flare light and produce a higher dynamic range, but may be challenging to auto exposure.