

Projection Tip

How To Get A 100-Inch Screen That Performs Like A Flat Panel Display, With Limited Space And Little Projector Throw Distance

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At a cost rivaling a luxury car, large 100" large flat panels TVs are unobtainable to the average person. Fortunately, there are more affordable options. CE Retail consumers are just starting to learn that Ambient Light Rejecting (ALR) projection screens present television-grade brightness and clarity even with the lights on. However, what if you are working with a limited space that does not provide a long projector throw distance? What do you do when the typical ALR material is not compatible with short-throw projectors? To know the answer, let's establish an understanding of what ALR really is and how it can be modified to short throw performance.

ALR projection screens have gained immense popularity over the last few years. As dedicated home theater rooms give way to multi-purpose living spaces, it has become essential for the projection screen to be as utilitarian as any television screen. Now, instead of the typical 32" to 50" sizes, you could have a larger-than-life 100" screen. Here is where innovative advancements in projection technology come into play. As before stated, a 100" flat screen TV is presently going for tens of thousands of dollars. A projector with ALR screen can be obtained for a fraction of that cost.

The introduction of an actual "UST" (ultra short throw) projector screen that also rejects ambient light (ALR) has been a breakthrough. Its advantage lies not only in that fact that it can match and even surpass a large flat panel screen's performance, its ability to work with UST means there is no worry about shadow effect when somebody stands between the projector and screen.

ALR materials are typically made to reject indirect light while enhancing picture performance with the best possible brightness, color temperature and contrast levels. The tricky part was making such a material compatible with Short Throw/Ultra Short Throw projectors because a UST relies on its ability to spread out as indirect light in order to create a big picture using a relatively short throw distance. Since ALR is geared to reject such indirect light, therein lies the problem.

The Aeon CLR® "Ceiling Light Rejecting" screen bends the rules by combining the best of ALR and UST in a product that actually works. It is a variation of the "ALR" concept that specifically focuses on the elimination of overhead "ceiling" ambient lighting while utilizing its reflective properties and contrast layers to eliminate the washout effects of incident lighting from horizontally off-axis light sources. **WSR**

AEON CLR®

Product Comparison

16:9
Aspect
Ratio



- StarBright CLR® material is specifically designed for ultra-short-throw projectors to provide a large-screen performance
- Produces lifelike images with superb color fidelity
- 100x contrast enhancement over standard matte white screens

