



HD10 FAMILY DESIGN SPECIFICATIONS

The HD10 family of lenses has been designed to maximize performance and versatility for professional CRT projection video, data and graphics applications. All HD10 family lenses are optically coupled and designed to cover a full 178mm (7") raster diagonal. They are all fully color corrected hybrid designs, incorporating both plastic and glass elements and share the same C-element and mounting geometry, making it possible to interchange the lenses on the same projector. The following is a brief description of lenses in the HD10 family.

HD10E – The HD10E covers 167mm focal length (7") CRT raster diagonal. It was designed to provide good performance over the largest possible magnification range (14-45X). For this reason, CPL recommends the HD10E lens for applications where the intended screen size requirements may vary over this wide range (90" – 300" diagonal).

HD10L – The HD10L is designed for optimized performance for smaller screen sizes not covered by other HD10 family lenses. This lens provides excellent performance for a specific magnification range (9-13X). CPL recommends the HD10L lens for applications requiring screen sizes of 60-90" diagonal.

HD10GT17 – The HD10GT17 is designed for improved resolution over the HD10 lens over a specific magnification range. This lens provides excellent performance for magnifications of 14-20X. CPL recommends the HD10GT17 lens for applications requiring screen sizes of 100-140" diagonal.

HD10GT26 – The HD10GT26 lens is designed for improved resolution over the HD10E lens for magnifications of 21-30X. CPL recommends the HD10GT26 for applications requiring screen sizes of 150-200" diagonal.

HD10GT30-67 – The HD10GT30-67 is designed for improved resolution over the HD10E for magnifications of 30-45X and to extend the range of the family up to 67X. CPL recommends the HD10GT30-67 for high magnification applications requiring screen diagonals of 210-460".

The HD10R5M lens is designed for improved resolution utilizing a curved 4 meter diameter screen application. It is designed for magnifications of 15-70X. This lens is designed for Simulation applications and thus was designed for a domed screen.

US Patents Nos. 4,300,817, 4,900,139, 4,776,681 and others pending.