



FOR IMMEDIATE RELEASE:

Variable Focus Flat Field Scan Lenses

Sudbury, MA - December 4, 2015 - eRADii has published details of patent pending VF³ scanning technology in US patent application US 2015/0346483 A1. The so-called Variable Focus Flat Field VF³ lens provides zoom-like functionality to a range of optical scanning applications.

Where conventional f-theta lenses are fixed focal length with lens selection limited to a few commercially available stock formats, VF³ technology now allows focal adjustment. This means matching focal length requirements is possible without compromise or custom lens fabrication.

VF³ fine focusing capability allows fixed upstream optics. No beam expander adjustments are needed for focusing, and a flat scan field is maintained without a bulky dynamic focusing module.

Large focal adjustment range is possible, so one VF³ scan lens can cover a range of focal heights and scan field sizes, eliminating the need to maintain multiple scan lenses for different scan formats.

As a system component, the VF³ lens enables unprecedented functionality, potentially eliminating vertical staging to minimize the system footprint. With VF³ technology, automated stepwise planar volumetric scanning can be applied to 3D printing and other laser scanning applications.

Inquiries are welcome and potential development partners are encouraged to contact the inventor, eRADii consultant Jon Ehrmann. eRADii provides optical design services to a range of applications including laser scanning and laser processing systems.

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