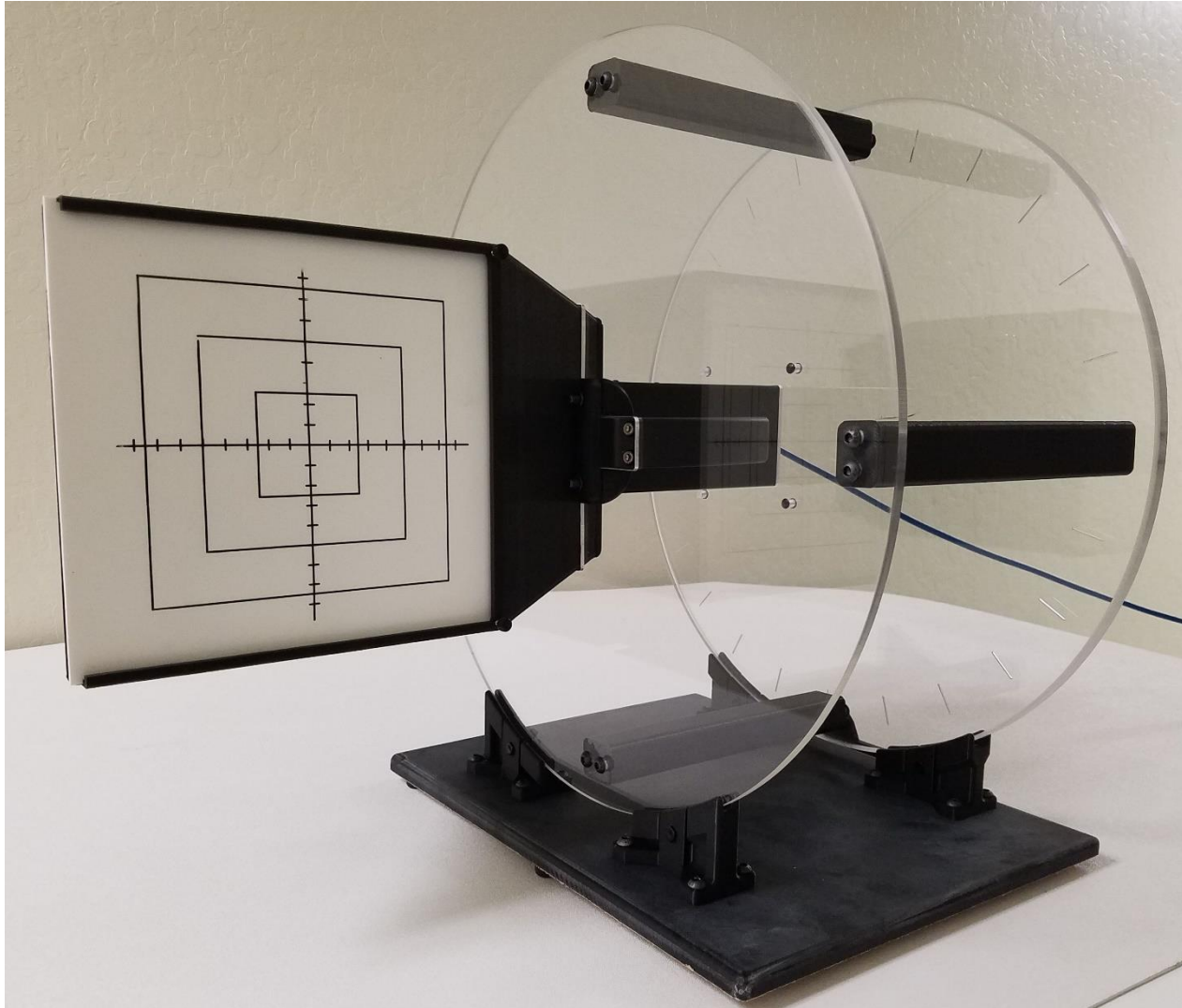
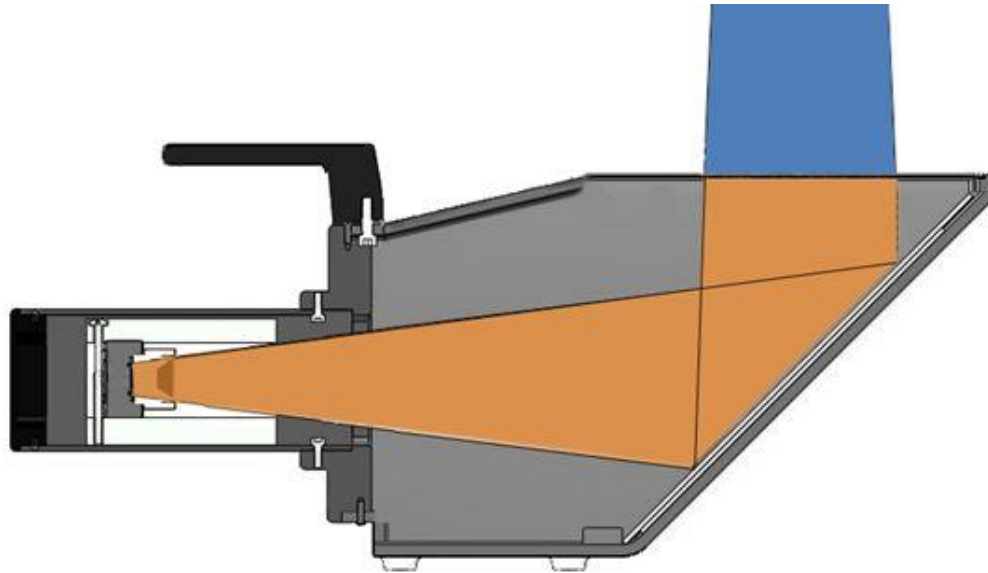


Proton and X-Ray Real-Time Phantom Quality Assurance

XRV-2000 Falcon



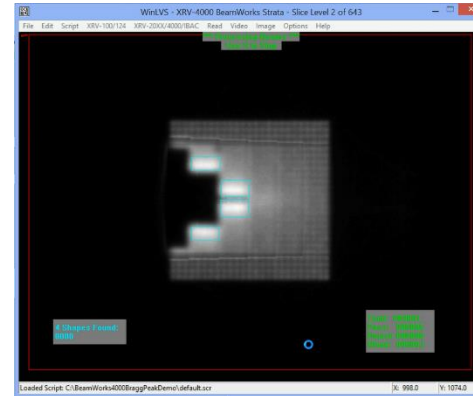
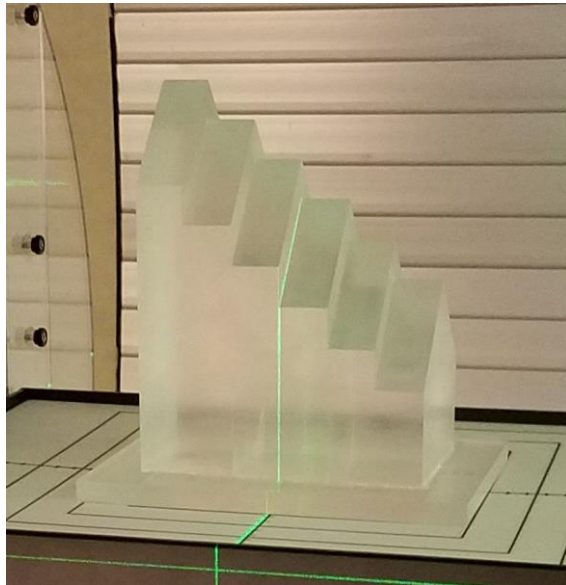
XRV-2000 Falcon Operation



This diagram shows how the radiation beam is converted to visible light by the 20 x 20 cm scintillator and then reflected off the 45 degree mirror to the USB digital camera. The PC then captures beam images and performs measurements.

Proton Beam Bragg Peak Measurements

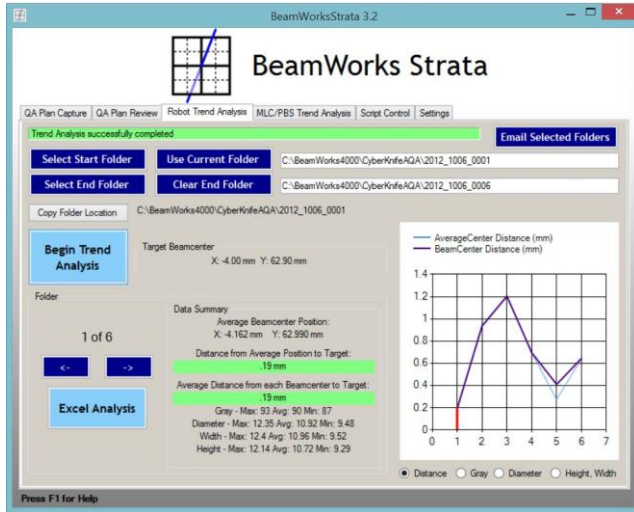
Logos Chevron Wedge provides a quick proton beam energy check at selected gantry angle.



	D+5A	D+4A	D+3A	D+2A	D+A	D
	12	13	14	15	16	17
		○				
d	B+5A	B+4A	B+3A	B+2A	B+A	B
		○				
	D+5A	D+4A	D+3A	D+2A	D+A	D

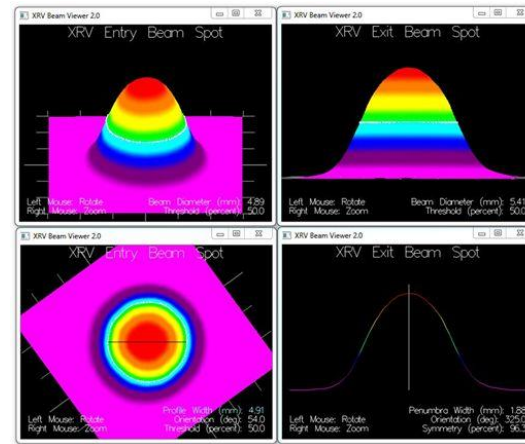
$$\text{Bragg Peak Penetration} = (B+4A) - d/2$$

IGRT System XY and Beam QA

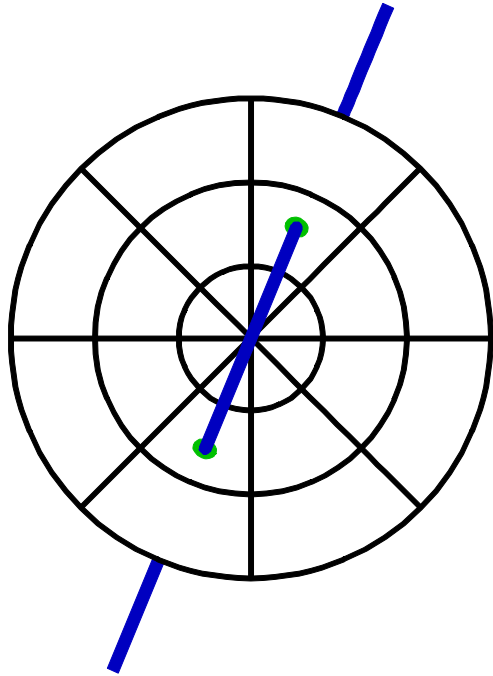


Distance to plan, MLC beam widths, and linac intensity are recorded during daily QA and can be charted over weeks, months, or even years of operation.

PBS and MLC radiation fields up to 20 x 20 cm can be captured for beam profiling with measurement accuracy to 0.1 mm.



Digital Real-Time X-ray and Proton Beam Metrology Solutions



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