

Mirror Effective Area	<p>3 m² @1.25 keV</p> <p>0.65 m² @ 6 keV with a goal of 1 m²</p> <p>150 cm² @ 30 keV with a goal of 350 cm²</p>	<p>Black hole evolution, large scale structure, cosmic feedback,</p> <p>Strong gravity, EOS</p> <p>Cosmic acceleration, strong gravity</p>
Spectral Resolution (FWHM)	<p>$\Delta E = 2.5$ eV within 2 x 2 arc min (0.3 – 7 keV) .</p> <p>$\Delta E = 10$ eV within 5 x 5 arc min (0.3 - 7 keV)</p> <p>$\Delta E = 150$ eV at 6 keV within 18 arc min diameter (0.1 - 15 keV)</p> <p>$E/\Delta E = 3000$ (0.3–1 keV) with an area of 1,000 cm² and a goal of 3000 cm² for point sources</p> <p>$\Delta E = 1$ keV within 8 x 8 arc min (10 – 40 keV)</p>	<p>Black Hole evolution,</p> <p>Large scale structure</p> <p>Missing baryons using tens of background AGN</p>
Angular Resolution	<p>≤ 5 arc sec HPD (0.1 – 7 keV)</p> <p>30 arc sec HPD (7 - 40 keV); goal of 5 arc sec</p>	<p>Large scale structure, cosmic feedback, black hole evolution, missing baryons</p>
Count Rate	<p>1 Crab with >90% throughput. $\Delta E < 150$ eV @ 6 keV (0.1 – 15 keV)</p>	<p>Strong gravity, EOS</p>
Polarimetry	<p>1% MDP on 1 mCrab, 100 ksec, 3σ, 2 - 6 keV</p>	<p>AGN geometry, strong gravity</p>
Astrometry	<p>1 arcsec at 3σ confidence</p>	<p>Black hole evolution</p>
Absolute Timing	<p>50 μsec</p>	<p>Neutron star studies</p>