The Digital Science Partnership is a collaboration between the University of Louisville and the University of Southern Queensland to develop remote and robotic astronomical instrumentation and software, primarily for education, student research, and teacher training. Users include students at USQ and UofL, K-12 teachers seeking professional development, and students and teachers visiting planetaria at the University of Louisville and Northern Kentucky University. Two instruments are now in operation - identical 20-inch (0.5-meter) corrected Dall-Kirkham telescopes on substantial German equatorials.

The telescopes were designed by Joe Haberman and Rick Hedrick and are now manufactured commercially by Planewave Instruments. They are light-weighted with a tapered Pyrex primary, a carbon composite truss, and machined aluminum frame. We have seen no significant nighttime thermal drift, and very rapid equilibration to ambient temperatures after sunset.

In this 10-s R-band exposure of Omega Centauri, stellar images off- and on-axis have identical appearance and are seeing limited at 1.5 seconds of arc full width at half maximum. The STL11000 CCD camera has 3072x2048 0.5" pixels with a field of 27'x18'.

The corrected Dall Kirkham design uses an ellipsoidal primary, spherical secondary, and doublet corrector. Ray tracings shown here are based on "as-manufactured" parameters for our telescopes. They predict diffraction limited images with insignificant chromatic aberration from 400 to 750 nm.

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