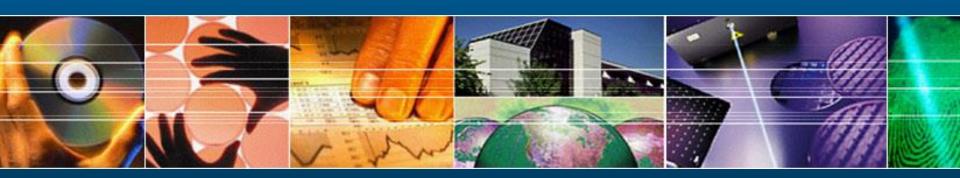
Astrella Performance

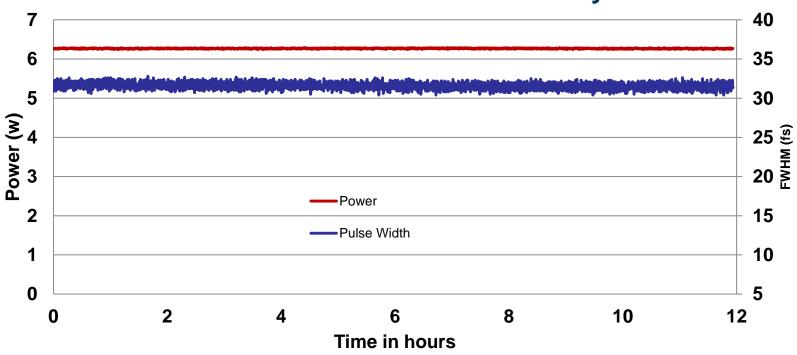




Performance Data

Rock Solid Stability!

Power and Pulse Width Stability

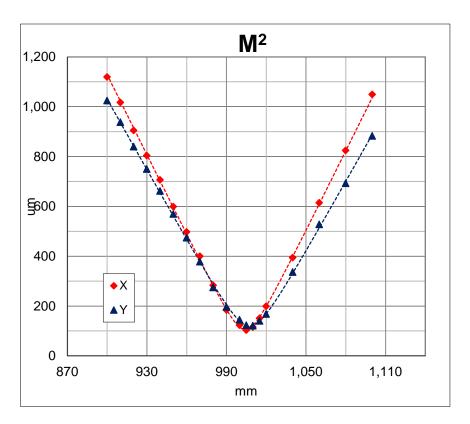


Power stability = 0.14% rms Pulse width stability = 0.9% rms



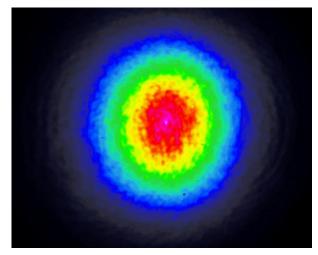
Performance Data

- Beam diameter ~11 mm (1/e²)
- M² <1.25 in each axis

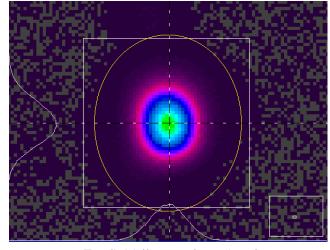


 M^2 (x=1.11 y=1.12)

Superb Beam Quality!



Near field

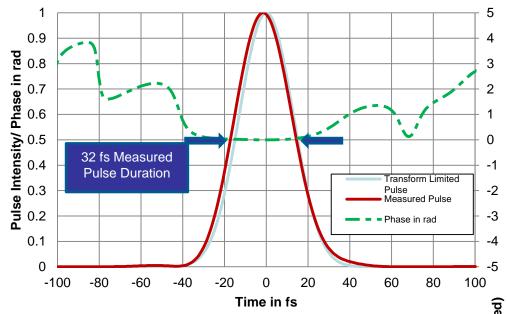


Far field (focus of 1 m lens)



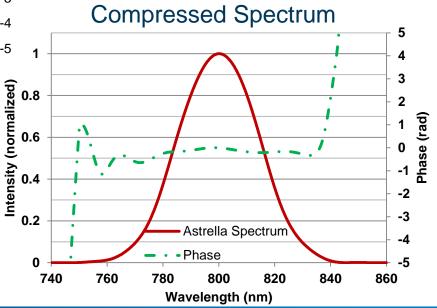
Performance Data

Incomparable Pulse Quality!



32 fs pulse width

- Clean spectral profile, no modulation
- Excellent temporal profile
- 1.05 xTL low wings <2%





Features and Benefits





Astrella - Features and Benefits

☑Integrated Design

- · Robust and reliable one-box design
- · All sub-systems thermally stabilized

✓Seed Laser

- · Vitara The next generation of extreme performance ultrafast Ti:S all in a sealed hands-free package
- >10,000 lifetime with zero user interaction
- HASS tested

☑Pump Laser

- New pump laser improved overhead, beam quality
- Head room for your laser; comfortably specified at >35 mJ @ 1 kHz
- Competition uses 28 mJ specification in similar application
- · Evolution performance and reliability taken to the next level
- HASS tested

✓ Regenerative Amplifier

- Stable Architecture (STAR) regen design
- Next generation regen, low profile mounts, pump routing optics on common base plate
- Water only cooled Ti:Sa rod, water cooled base plate and water cooled HSDs

✓ Stretcher/Compressor

- Sealed for stability and grating lifetime
- Proprietary design, achieves clean <35 fs pulses in a compact footprint



Wide Range of Options → Extended Performance

- Harmonic wavelength extension
 - •400 nm, 266 nm, 200 nm
 - External or Integrated options



Optical Parametric Amplifiers
190 nm – 20000 nm







- Single-Shot Autocorrelator
 - Versions for 20 fs 20 ps

