## Mira® Optima 900-F

### Output Power
- **(Verdi™-V5 pump)**: 0.65 W
- **(Verdi-V8)**: 1.0 W
- **(Verdi-V10)**: 1.3 W
- **(Innova® 310 8 W)**: 0.8 W
- **Sabre® 14 W**: 1.4 W

### Tuning Range
- 700 to 980 nm

### Autocorrelation
- <200 fs

### Repetition Rate
- 76 MHz, nominal

### Noise
- <0.1% (Verdi)
- <2% (Sabre/Innova)

### Stability
- <3% (Verdi)
- <5% (Sabre/Innova)

### Beam Diameter
- 0.8 mm

### Beam Divergence
- 1.7 mrad

### Spatial Mode
- TEM00

### Polarization
- Horizontal

### Physical Dimensions
- 111.1 x 38.1 x 19.7 cm (43.75 x 15 x 7.75 in.)

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1. Specifications apply only with Coherent pump lasers.
2. At 800 nm. 3. For Verdi-V6, call factory. 4. Wider coverage possible with short wave or extended long wave optics sets. 5. Multiply by 0.65 sech² deconvolution factor for pulse duration. 6. Measured rms in a 10 Hz to 20 MHz bandwidth. 7. Power drift in any two-hour period after warm-up when crystal’s cooling water is maintained at ±0.1°C. 8. 1/e² diameter (±0.2 mm) at exit port. 9. Full angle divergence (±0.3 mrad) at exit port. 10. Typical measured M² value is 1.1.
Mira Optima 900-P

PUMP LASER
L2
Ti:Al2O3
SLIT
M2
M8
GTI
M9
M10
M1SLIT
M3
M4

Mira Optima 900-F / Mira 900-S

PUMP LASER
L2
Ti:Al2O3
SLIT
M2
M8
GTI
M9
M10
M1SLIT
M3
M4

Mira Optima 900-D

PUMP LASER
L2
Ti:Al2O3
SLIT
M2
M8
GTI
M9
M10
M1SLIT
M3
M4

Laser Head - Front View

12.85 cm (5.06 in.)
19.40 cm (7.59 in.)
12.07 cm (4.75 in.)
18.75 cm (7.38 in.)
15.04 cm (5.92 in.)
1.91 cm (0.75 in.)
4.01 cm (1.58 in.)
30.84 cm (11.84 in.)

Laser Head - Side View

11.13 cm (4.38 in.)
12.07 cm (4.75 in.)
15.04 cm (5.92 in.)
18.75 cm (7.38 in.)
19.40 cm (7.59 in.)
30.84 cm (11.84 in.)
4.01 cm (1.58 in.)

Laser Head - Top View

11.13 cm (4.38 in.)
38.1 cm (15.00 in.)
15.04 cm (5.92 in.)
7.95 cm (3.13 in.)
87.74 cm (34.15 in.)
4.01 cm (1.58 in.)
30.07 cm (11.84 in.)

Laser Head - Rear View

11.13 cm (4.38 in.)
12.07 cm (4.75 in.)

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent’s scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all Mira® systems. For full details on warranty coverage, please refer to the Service and Support section at www.CoherentInc.com, or contact your local Sales or Service Representative.