

The GEMINI™ series from TELESIS features an advanced, dual-scan marking head, based on our successful ZENITH® Pulsed-Fiber Laser platform. Capable of extremely high-speed, high quality simultaneous, duplicate marking on two surfaces, it offers lower operation costs along with increased production and handling efficiencies. In addition to marking, the GEMINI™ 10FQ and 20FQ are excellent choices for scribing, trimming and a variety of material processing applications.



GENERAL SPECIFICATIONS

Compliance	CDRH, CE, UID
Wavelength.....	1,060 nm (+/-10nm)
Laser Type.....	yterbium doped Q-Switched fiber laser
Q-Switch Frequency.....	20KHZ to 80KHz
Average power per scan head (for Gemini 20FQ).....	10 Watts (combined 20Watts)
Average power per scan head (for Gemini 10FQ).....	5 Watts (combined 10Watts)
Beam quality.....	M2 < 2
Long term power stability.....	less than ± 5%
Positioning.....	two red diodes
Fiber optic cable length (for Gemini 20FQ).....	3 meters (9.8 feet)
Fiber optic cable length (for Gemini 10FQ).....	5 meters (16.4 feet)
Cooling.....	Air cooled
Max. Power Consumption (for Gemini 20FQ).....	less than 550W
Max. Power Consumption (for Gemini 10FQ).....	less than 450W
Operating Range.....	10° to 35°C (50° to 95°F)
Humidity	10% to 85% non-condensing
Expected MTBF.....	50,000 hours maintenance-free diode pumping source
Shipping weight (for 160mm lenses)	approx. 35 kg (77 lbs)

LASER MARKING HEAD SPECIFICATIONS

Dimensions (L x W x H)	20.0" x 13.9" x 5.486"
Mounting Weight (with 160mm lenses)	approx. 16 kg (35lbs)
Mounting Holes.....	six M5-0.8

Laser Controller Specifications

Dimensions (W x H x L)	16.74" x 5.25" x 20.0"
Weight	approx. 15.5 kg (34 lbs)
Input Power (selectable)	115/230VAC 50/60 Hz

FEATURES

- Reliable, 50,000 hours plus maintenance free performance
- Compact size and modular construction
- Requires a fraction of normal power consumption for optimum performance
- Exceptional beam quality and stable output power
- Active AO Q-Switching
- Output laser beam delivery via fiber optic cable
- Sealed marking head prevents dust penetration into the optical compartment
- Two scan head configuration for doubling marking throughout
- Two visible "red light" diodes for dry run / positioning for each scan head
- Air cooled
- Display monitors the actual laser power
- Display monitors worked hours
- Standard 115/230VAC wall plug operation
- DoD-compliant Unique Identification (UID) marking



Features DATA MATRIX™ 2-D Code Marking
Capability — Meets all Department of Defense
UID Requirements