Security Printing Consulting AG
Büelrebenstr. 10, CH-8185 Winkel-Rüti, Switzerland
Tel. + 41 44 860 22 33 e-mail: info@sp-consulting.ch
Fax. + 41 44 860 26 16 web: www.sp-consulting.ch

Violino II IR 1064
Diode-Pumped Laser Source for Marking and Engraving

Security Printing Consulting AG
Büelrebenstr. 10, CH-8185 Winkel-Rüti, Switzerland
Tel. + 41 44 860 22 33 e-mail: info@sp-consulting.ch
Fax. + 41 44 860 26 16 web: www.sp-consulting.ch

Diode-pumped laser source Violino II IR 1064

Compact 10 Watt Laser Marker, designed for the installation on production lines, ideal for engraving of text or logos or images on cards of any thickness or shape (PC, ABS. PVC etc. incl. marking on metal or plastic parts).

End pumped solid state laser solution for industrial laser marking applications. An industrial optical fiber connects the laser Head to the Power Supply unit.

The laser diode pump is located in a sealed module inside of the air cooled electronic power supply rack.

Features

Main feature of the Violino II is the excellent beam quality necessary for marking a broad range of materials.

Best results on steel, titanium, aluminium (bare, anodized or coated) as well as on plastics (such as ABS, Lexan, PES, PET, PVC), polycarbonate and many others.

The simple end-pumped architecture using a TE cooled diode laser pump with high MTBF, assures the reliability and availability of the system, which is required by the standards of many industrial applications including automotive and electronic manufacturing..

The large potentiality of Violino II on different materials makes this laser usable in almost all industries whether reliability and efficiency are the most valuable features requested. Other applications include: lasting mark on mechanical parts, decorative design marking on dashboard or cellular phone keyboard, marking of electronic components and identification marking on surgical instruments

Technical data

Violino II IR 1064	
Laser Medium / Wavelength	Nd: YVO4 / 1064 nm
Nominal Power	10W ± 5% (@ C.W. multimode)
Beam Quality	M2 < 1.5
Power Stability (8 h)	< 1 % rms (power mode)
Pulse width	12 ns (@10kHz)
Pulse Energy / Peak Power	Max. 500 µ J / 40 kW
Frequency	10 –100 kHz
Maintenance intervals (MTBM)	10,000 hours
Aiming beam	Class 2M Red Diode laser ; λ= 635± 5 nm ; 3 mW
Power Supply	AC 90-240 V / 50-60 Hz/ 500 W
Cooling (TEC air cooled)	Heat load 120 W (409 btu/ h)
Operating Temperature	+ 10 to +35 °C (46 to 95 °F)