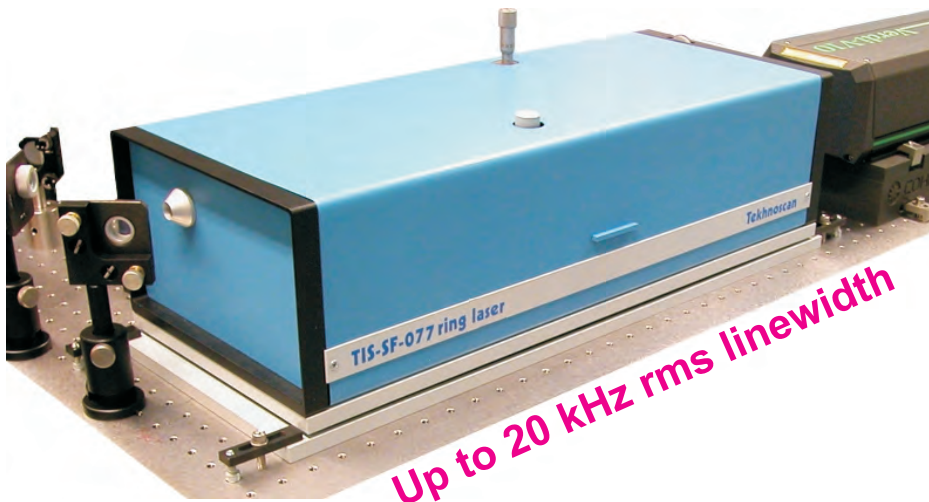
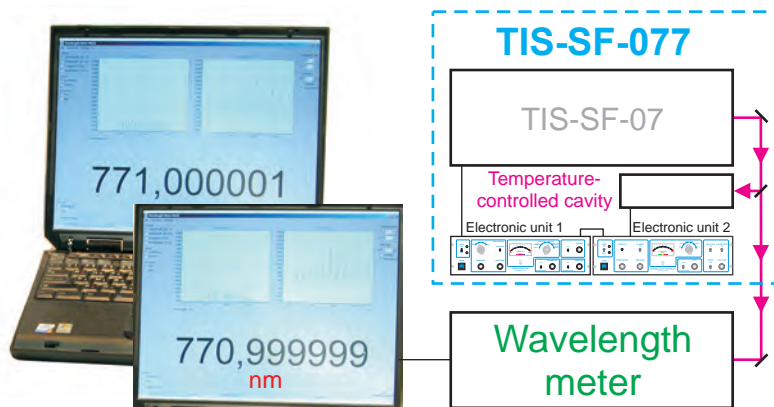


Frequency-stabilised CW single-frequency ring Ti:Sapphire laser, model TIS-SF-077



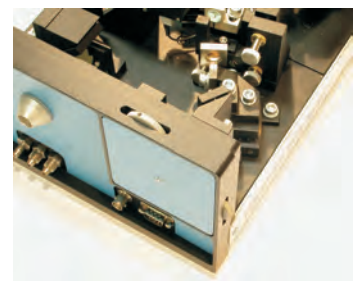
© Tekhnoscan presents a new frequency-stabilised CW single-frequency ring Ti:Sapphire laser, model TIS-SF-077, designed for researches in atom cooling and super-fine resolution spectrometry

© Ti:Sapphire laser, model TIS-SF-077, is a further development of model TIS-SF-07; it now includes a system of frequency stabilisation on the basis of a thermo-stabilised interferometer and a fast electronic driver; the thermo-stabilised interferometer comes as a separate module installed beside the laser itself



© Convenient multi-function electronic control units

CW single-frequency Ti:Sapphire laser with frequency stabilisation, model TIS-SF-077, opens up new horizons in super-fine wavelength-selective action on objects of investigation. The output linewidth of this laser does not exceed 50 kHz rms and may be further reduced (up to 20 kHz rms) upon a custom order. Laser TIS-SF-077 features exceptionally low generation line drift: less than 40 MHz/hour. This remarkably small figure is guaranteed by a superb thermal isolation and stabilization of the reference interferometer and its special design. The working wavelength range of this laser spans 700-1050 nm and can be further extended into the 350-525-nm range with the help of efficient frequency doubler FD-SF-07 offered by Tekhnoscan.



© superfine-precision adjustments of the pump beam, which allow the user to restore quickly the laser generation parameters when the pump beam changes position; for the convenience of use these controls are accessible from the front flange of the laser without opening the case cover