

CW Tunable UV

UV SHG CAVITY

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SolsTiS ECD-X-Q is a compact frequency quadrupling module that extends the range of SolsTiS output wavelengths to produce narrow linewidth, tunable output in the ultraviolet.

FEATURES

- **CONVERSION EFFICIENCY**
Conversion efficiencies of up to 5% > 1 W input for 420-500 nm wavelengths.
- **MULTIPLE SPOTS PER CRYSTAL**
Unique click and shift system provides multiple spots per crystal to prolong its usage with no effect on beam pointing or quality.
- **EXCELLENT BEAM QUALITY**
SolsTiS ECD-X-Q features exceptional beam conditioning optics $M^2 < 1.3$.
- **LOW INTERNAL HUMIDITY**
The desiccant cavity reduces internal humidity with no requirement for purging.
- **BROAD WAVELENGTH COVERAGE**
Interchangeable mounted crystal packages are available for different wavelengths. Each crystal offers 6 nm of tuning and it's easy to interchange these crystals for extended coverage.
- **HIGHLY STABLE LOCK**
SolsTiS ECD-X-Q features a highly stable lock to the doubler.
- **OPTOMECHANICAL STABILITY**
The only doubling cavity system built on an Invar baseplate to provide maximum stability.
- **EASY TO CONTROL**
An easy to use web interface controls fine wavelength tuning (automatic tracking of fundamental frequency scans) and locking. Alternatively, you can use a published set of TCP/IP controls for third party applications such as LabVIEW and MATLAB.

SPECIFICATIONS

TUNING RANGE	210-250 nm
DOUBLING EFFICIENCY	>5 % for inputs of >500 mW >10 % for inputs of >1 W
CRYSTAL RANGE	+/- 3 nm from central cut of each crystal
OPERATING TEMPERATURE RANGE	16-30°C
MAXIMUM RELATIVE HUMIDITY	80% non-condensing, up to 30°C
LABORATORY REQUIREMENTS	Mount on optical table with air free of dust (Laminar airflow box recommended)



SolsTIS ECD-X-Q top down view



SolsTIS ECD-X-Q front view

SOLSTIS EXTENSIONS

A range of extensions are available to enhance the wavelength coverage of the system, helping you to explore new regions.



CW Tunable NIR

SOLSTIS

A step-change in continuous-wave Ti:Sapphire laser technology - compact, ultra-narrow linewidth, fully automated and widely tunable.



CW Tunable UV Visible

SOLSTIS ECD-X

A compact frequency conversion module that extends the range of SolsTiS output wavelengths via frequency doubling in a resonant cavity with optimised conversion efficiency.



CW Tunable UV Visible IR

SOLSTIS EMM

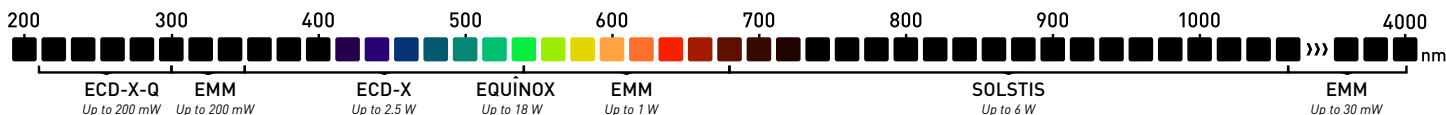
An external mixing module that offers fully automated tuning in the visible and IR with further extension options into the UV.



CW

EQUINOX

A single frequency CW 532 nm laser up to 18W. It's inherently stable, reliable, low noise and narrow linewidth.



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