

PRESS RELEASE

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DATELINE: MELBOURNE, FLORIDA, UNITED STATES OF AMERICA

TOPIC: TREMENDOUS NEWS! AMAZING ELEMENT SERVES MANY USES.

The "TUNE-A-FLEX™ Element" from ELK INDUSTRIES Provide "unheard of" Applications and Features.

In an overview, the "TUNE-A-FLEX™" acts as a Color Filter - with Major, and Exciting Differences. It LOOKS like an (ordinary) Piece of Glass - however, that is the ONLY Ordinary Thing about this Discovery/Product/Technology/Invention. If you hold it up to a Light, and look through it, it will "Filter" Light into a RED Color. However, as you TILT the Plate, it changes in COLOR! It goes from Deep RED to Bright GREEN, just by Tilting it - from one angle to another, in the same Plane.

So what does this Mean? Well, first off, the Efficiency is > 90% (Guaranteed), and is Typically 95% or More. For IMAGING Applications, there is No "Refractive Activity", to be causing difficulties. It Simply Changes COLOR, That's It. And there are 5 Separate Types, which "cover" 5 Different Spectral Ranges, which can "cover" the Entire Visible Wavelength Range (and "overlap" an amount).

Although, the BIGGEST NEWS deals with LASER TUNING. For example, we are able to take a Solid State LASER MATERIAL - one of Our ACRYLINE™ Acrylic Polymer Discs (Model 90 OEM Solid State Dye LASER) and we are able to "TUNE" the LASER from ~550 nm -620 nm (essentially from Bright Green to Deep Red)! **SEE PLATE #1**. You can See the Simple SETUP in **Plate #2**. The Setup consists of Very Basic Elements, Identified in **PLATE #3**. Just Look at the Wide Range afforded by this (simple)Optical element, fitted for Use in Narrow Linewidth TUNING this Dye LASER. It is INCREDIBLE! Because the Efficiency of this Element is so High, Tuning is made very SIMPLY, and Without the (tremendous) Losses associated with ordinary Single Linewidth Tuning.

Usually, it is an elaborate and difficult work effort to arrange and align, a set of beam expanding optics, such as a concave lens, or, more frequently, a set of beam expanding Prisms used in conjunction with a diffraction Grating, which are used to "TUNE" a LASER. One need not look to long and hard to realize that there are enormous losses associated with such multiple Prism-Grating Tuning Systems. Even if you are to look at a Diffraction Grating (alone), you know that it is grossly unsuitable for Imaging applications, and that it will present substantial losses into the LASER cavity.

In Contrast, the "TUNE-A-FLEX™" Element comes with a guaranteed Transmission Efficiency of > 90%, and usually exhibits > 95% Efficiency! Also, the "TUNE-A-FLEX™" Element is Completely capable of rendering super high image Quality, as well!

So, for Imaging applications where a Single, efficient, super high Quality image Transmitting Element with a wide Range of visible wavelengths available - in one SINGLE DEVICE - THIS IS IT! Remember there are 5 different Wavelength Ranges to choose from. Each one spans a wide range, (as expressed earlier), such as Our example ~550 nm - 620 nm.

Upon examination of the Illustrations, and this Information, Many things become apparent:

- * A Single Element can be used to allow narrow Linewidth Tuning with Greater Efficiencies than were Possible before this Innovation.
- * For use in Imaging applications, there is a NEW device, with "never before" available Features.
- * In the Application of LASER Tuning, this NEW Element presents Optical Performance while replacing several "other", lower Operating Efficiency Devices, which are much more difficult to employ.
- * This Simple, yet amazing discovery adds incredible VALUE to Our (already) very successful lines of Dye LASERS (from ELK Industries).
- * For use in Polymer or Polystyrene dye LASERS, to have this Simple "TUNER" that enables the Output Wavelengths to vary from ~550 nm - 620 nm is unprecedented, and will afford the user a much greater range of applications, besides the (usual) broadband outputs obtained (normally) without a Tuner.
- * In the Construction of MOPA (Master Oscillator, Power Amplifiers) the Option of amplifying LASER Oscillator wavelengths outside of the Broadband LASER Peak wavelength is a very Welcome Notion. It means that virtually ANY LASER output wavelength can be Amplified. Even with a broadband LASER amplifier, the Output will be Predominately the Narrow Band (Oscillator) selected Wavelength.
- * In terms of CCD, CMOS, Photo multiplier, or PIN Silicon Imaging Systems, either Fixed or variable Wavelength, High Image Quality can be adjusted, per the users desires, at whatever color is wanted/needed.
- * Certainly, there is a Plethora of ADDITIONAL Features and APPLICATIONS for this Unique, cost effective device.

ELK INDUSTRIES offers a variety of "Holders" and Rotational Stages for the "TUNE-A-FLEXTM" Elements, as well as spacers and offset Hardware and supplies.

Remember, there are 5 Different Types of the "TUNE-A-FLEXTM" Elements - Each with it's Own Tuning wavelength range. Each of these ranges "overlap" a bit, to assure that the Entire Visible Wavelength Region is "covered".

- * These Devices are Completely LINEAR in Nature; they offer continuous and contiguous Tuning or Filtration over the entire "span" of their Wavelength range, with the Guaranteed Transmission efficiency of over 90% over (that) entire Range.
- * No "other" devices (that we are aware of) can exhibit these qualities, and perform such functions, especially with regards to line selection or "tuning" of Dye LASERS, for example, let alone Solid State Dye LASERS (an SSDL).
- * Now, and into the Future, we (ELK Industries, LLC & American Advanced Technologies, Inc.) intend to continue extensive and rigorous testing of these amazing devices. This will include tuning of (High Power) CW Dye LASERS, as well as Pulsed LASERS (both SSDL's &

Pulsed Liquid Dye LASERS).

* Already, Our Tests have revealed that the LASER Damage threshold of the "TUNE-A-FLEX™" Elements are greater than, or equal to 1 Joule per cm², @ 532 nm, in a 20 nanosecond Pulse Duration (or Less). This means, at longer pulse durations, (or CW Mode) these elements are not subject to LASER Induced Damage, and can operate within cavities of High Energy/High Power LASERS, with ease.

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