



UltraFast
Innovations

YOUR KEY to innovation and success

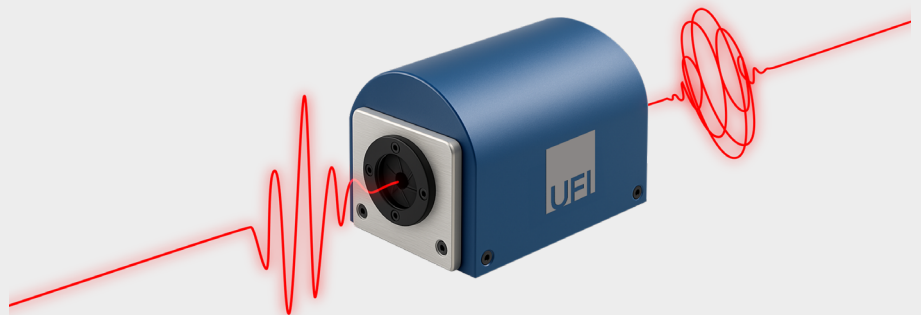


vis-nIR Phase Retarder KAUAI



Our vis-nIR Phase Retarder KAUAI is the perfect quarter waveplate to convert linearly polarized light into circularly polarized light with minimal dispersion.

Covering a broad spectral range from 650 to 1400 nm, it supports more than an optical octave of bandwidth, making it ideal for polarization control of ultrabroadband pulses, including white light supercontinuum. With a dispersion of less than 3 fs^2 , KAUAI ensures optimal performance in high-end laser systems using ultrashort pulses, especially Ytterbium-based platforms. Its all-reflective geometry enables compatibility with few-cycle pulses and self compressing broadening schemes, outperforming traditional achromatic waveplates. KAUAI's compact footprint ($8 \times 15 \text{ cm}^2$), high throughput, and beam-preserving design allow seamless integration into existing setups. Its rotation is remote controllable and it can be used with beam diameters up to 6 mm. KAUAI is the go-to solution for demanding ultrafast applications that require precise polarization control and exceptional dispersion management.



Key Product Features:

- Ultrabroadband reflective retardation to create circularly polarized light in the visible and near infrared
- Up to $\approx 90\%$ max reflectivity
- No added GDD ($< 3 \text{ fs}^2$)
- More wavelengths available upon request
- Compact design, with beam direction preservation
- Entrance and exit iris diaphragms for alignment
- Easy to implement in existing setups

Characteristics:

Spectral Range	650-1400 nm
Reflectivity	$> 85\%$
Max Ellipticity P_c^1	1.0
Extra Beam Path	60 mm
Clear Aperture	6 mm
Footprint	80mm (W) x 150mm (L)

¹Degree of Ellipticity expressed as Stokes Parameters $P_c = S_3/S_0$

TII 東京インスツルメンツ
TOKYO INSTRUMENTS
グローバルにネットワークを広げ、最先端の科学をお客様に提供

本社: 〒134-0088 東京都江戸川区西葛西6-18-14 T.ビル Tel. 03-3686-4711
営業所: 〒532-0003 大阪府大阪市淀川区宮原4-1-46 新大阪北ビル Tel. 06-6393-7411
URL: <https://www.tokyoinst.co.jp> Mail: sales@tokyoinst.co.jp

TII Group Company

UNISOKU 超高真空・極低温走査型プローブ顕微鏡
高速分光測定装置、クライオスタット

LOTIS TII Nd:YAGレーザー、Ti:Sレーザー
OPOLレーザー

●本カタログに記載されている内容は、改良のため予告無く変更する場合があります。(製品の仕様、性能、価格などはカタログ発行当時のものです)
●本カタログに記載されている内容の一部または全部を無断で転載することは禁止されています。
●本カタログに記載されているメーカー名、製品名などは各社の商標または登録商標です。

Theoretical curves:

