

# INTEGRATED POLARIZATION SCRAMBLER

MODEL GIG-4001



Patent pending technology

## Optical specifications:

All fiber Optical signal path, SMF28 compatible  
2 SOP control scrambling  
Insertion loss: <0.4dB typical, 1dB Max.  
Activation loss: <.1dB  
PMD: <3fs  
Lead waveplate speed: up to 10Hz for +/-90°  
Rotation, Open loop control 18°/step – 2.25° per 1/8 step  
+/-90° Retardance per element  
Rotation speed: <0.28ms/1/8 step, 3600°/s  
Continuous scrambling at 10Hz for +/-90° Rotation  
Customizable second waveplate speed ratio  
Static and Deterministic control  
FC/APC connectors

## Electrical specifications:

Integrated microcomputer control and USB remote with simple Terminal or dedicated LabView interface  
Universal power supply: 85-264VAC/110-340VDC  
RoHS compliant

## Mechanical specifications:

Dimensions: 230mm x 170mm x 56mm  
Weight: 1Kg

## Possible customizations:

Fiber: User defined fiber (PM, HI980, Etc.)  
Connectors: User defined

