

# Compact Photonic Tools

## Fabry-Perot Laser (cFPL-A1)



The Viavi Solutions Compact Photonic Tools offer a new portfolio of point solutions for fiber optic test applications.

The cFPL-A1 provides a compact, intuitive laser source designed to enable applications ranging from simple continuity verification and insertion loss testing to integration into process automation equipment designed for alignment.

Available in two or three laser versions with the option to select from four key wavelengths: 1310, 1490, 1550, and 1625 nm. The integrated multiplexer and single optical output found in the cFPL greatly simplifies the optical connections and calibrations. To compensate for downstream wavelength-dependent loss, each wavelength can be individually controlled and attenuated up to 7 dB with 0.01 dB resolution.

A simple, intuitive graphical user interface (GUI) and keypad minimizes training requirements. A universal serial bus (USB) interface may be used for test automation interfacing to a PC.

## Innovative Features Reduce Test Duration by 3x When Paired with a cOPM-A1

### TWIN or TRIPLE Test

Enabling TWIN or TRIPLE test features on the cFPL dramatically lowers test durations by allowing simultaneous measurement of two or three wavelengths. Accessing this feature requires pairing of a cOPM-A1 with the cFPL-A1. When this feature is enabled on both units, the cOPM-A1 will automatically detect the wavelengths present and display the simultaneously measured output power (or loss) for each.

### Key Features

- Provides four key FTTx wavelengths (1310, 1490, 1550, and 1625 nm)
- Combines two or three lasers onto a single output
- Adjustable output power
- Selectable continuous wave or modulated output power

### Applications

- Serves as a basic light source for laboratory use
- Performs passive optical component insertion loss testing
- Performs optical connector and cable insertion loss testing
- Provides light sources for automated alignment stations



## Specifications

Parameter	cFPL-A1
Peak wavelength	1310, 1490, 1550, 1625 nm
Wavelength accuracy	±20 nm
Fiber type	SMF-28
Spectral width	<5 nm
Maximum output power	0 dBm
Attenuation range	7 dB
Attenuation resolution	0.01 dB
Modulation	CW, 270 Hz, 1 kHz, 2 kHz
Stability	±0.02 dB (15 min)±0.2 dB (8 hr)
Connector type	Interchangeable adapters (SC, FC, LC, ST, DIN)
Recalibration period	1 year
Warm-up time	5 min
Operating temperature	-10 to +55°C
Humidity	Non-condensing
Dimensions (W x H x D)	250 x 88 x 210 mm (9.84 x 3.46 x 8.27 in)
Weight	1.8 kg (4 lbs)
Remote interface	USB (through virtual com port driver)
Powering options	Auto sensing Mains 100 to 240 V AC, 50 to 60 Hz USB Direct from USB, no main required
Power consumption <sup>1</sup>	1.1 W

1. When connected to the AC power plug

## Ordering Information

Description	Product Code
Dual Wavelength Fabry-Perot Source, 1310, 1490 nm	BN 2299/01
Dual Wavelength Fabry-Perot Source, 1310, 1550 nm	BN 2299/02
Dual Wavelength Fabry-Perot Source, 1310, 1625 nm	BN 2299/03
Dual Wavelength Fabry-Perot Source, 1490, 1550 nm	BN 2299/04
Dual Wavelength Fabry-Perot Source, 1490, 1625 nm	BN 2299/05
Dual Wavelength Fabry-Perot Source, 1550, 1625 nm	BN 2299/06
Triple Wavelength Fabry-Perot Source, 1310, 1490, 1550 nm	BN 2299/07
Triple Wavelength Fabry-Perot Source, 1310, 1490, 1625 nm	BN 2299/08
Triple Wavelength Fabry-Perot Source, 1310, 1550, 1625 nm	BN 2299/09
Triple Wavelength Fabry-Perot Source, 1490, 1550, 1625 nm	BN 2299/10
Dual Wavelength Fabry-Perot Source, 1310, 1490 nm	BN 2299/21
Dual Wavelength Fabry-Perot Source, 1310, 1550 nm	BN 2299/22
Dual Wavelength Fabry-Perot Source, 1310, 1625 nm	BN 2299/23
Dual Wavelength Fabry-Perot Source, 1490, 1550 nm	BN 2299/24
Dual Wavelength Fabry-Perot Source, 1490, 1625 nm	BN 2299/25
Dual Wavelength Fabry-Perot Source, 1550, 1625 nm	BN 2299/26
Triple Wavelength Fabry-Perot Source, 1310, 1490, 1550 nm	BN 2299/27
Triple Wavelength Fabry-Perot Source, 1310, 1490, 1625 nm	BN 2299/28
Triple Wavelength Fabry-Perot Source, 1310, 1550, 1625 nm	BN 2299/29
Triple Wavelength Fabry-Perot Source, 1490, 1550, 1625 nm	BN 2299/30

All versions come with universal adapters from BN 215x/00.xx range.



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