

**FREE AIR FIBER OPTIC PROJECTOR
MODEL - FAFOP-100 SERIES**



APPLICATIONS

- **FIBER OPTICS BEAM PROJECTION**
- **COMMUNICATION**
- **EXPERIMENTS**

FEATURES

- **UNIFORM COMMON MODULES**
- **RUGGED, EASY INSTALLATION**
- **HIGH POWER OPERATION**
- **WIDE SPECTRAL RESPONSE**
- **HIGH COUPLING EFFICIENCY**
- **PRECISION ADJUSTMENT**

ADVANCED PHOTONICS INTERNATIONAL, INC. offers an entire family of fiber-optical connectors suitable for many applications over the entire electromagnetic spectrum from .2 to 20 microns. These connectors are designed for the most challenging research and measurement applications.

The connectors allow for the interfacing to equipment or for the designing of entire prototype and experimental assemblies. The family includes interchangeable optical modules for collimating, focusing, modulating, polarizing, combining, splitting or attenuation of optical energy in a fiber network. Special modules can be supplied to allow for applications in collimated or focused beams. They can operate with almost any different constraints and connector types. The modules can be used for single or bundled fibers.

The Free Air Fiber Optic Projector Modules are designed to operate with all other modules including our collimators and interface modules. The modules integrate features to insure optimum performance:

- orthogonal adjustments for alignment
- non elastic adjustment
- fine polarization adjustment
- interchangeable optical modules

The Free Air Fiber Optic Projector Modules permit the integration of many different functions designed to a common module. The module also allows the use of many other manufacturers assemblies.

ADVANCED PHOTONICS INTERNATIONAL, INC.

The ADVANCED PHOTONICS INTERNATIONAL, INC. standard Free air Fiber Optics Projector Modules are supplied to meet your specific needs.

The Free Air Fiber Optics Projector Modules permit the integration of a number of Functional Modules. See Functional Block Chart. The Modules will allow the experimenter to perform standard and specialized functions.

The projectors can be supplied to operate in a collimated beam or focused beam. In addition we can operate in the far field beyond the collimated cross over point of the optical beam. We can supply large size optics for such applications.

The module connectors can be supplied to interface with your existing connector types.

CONNECTORS	
PART NUMBER	TYPE
C1	SMA 905
C2	NTT-FC
C3	ATT-ST
C4	SINGLE FIBER
C5	BARE FIBER
C6	OTHER
C7	SPECIAL

The fiber optics connectors can be supplied tuned to a spectral region or specific wavelengths to match specific lasers

WAVELENGTH	
PART NUMBER	WAVELENGTH (nm)
W1	400-700
W2	400-1550
W3	375-1600
W4	400-1600
W5	1300-1550
W6	660+/- 30
W7	810+/- 40
W8	OTHER LASERS
W9	OTHER BANDS

The Free Air Fiber Optics Projector Modules can be supplied to operate at normal laser power levels or as part of high power delivery systems. Please specify whether you require the high power (HP) or regular power series (R).

The Free Air Fiber Optics Projector Modules offers assemblies to meet either multiple (M1) or single fiber applications (F1). For single fibers the connectors incorporate additional adjustments to insure alignment Please specify when ordering:

FUNCTIONAL MODULES	
PART NUMBER	FUNCTIONS
FAFOP-1	PROJECTS A COLLIMATED BEAM SPECIFY DIAMETER, WAVELENGTHS
FAFOP-2	PROJECTS A FOCUSED BEAM SPECIFY DIAMETER, FOCAL DISTANCE WAVELENGTHS
FAFOP-3	PROJECTS A COLLIMATED BEAM WITH NO OBSTRUCTION, SPECIFY DIAMETER, WAVELENGTHS
FAFOP-4	PROJECTS A FOCUSED BEAM WITH NO OBSTRUCTION SPECIFY DIAMETER, FOCAL DISTANCE , WAVELENGTHS
FAFOP-5	FAR FIELD APPLICATIONS TO SEVERAL KILOMETERS