



FEATURES

- ⊕ High Resolution Reflective System (Visible thru LWIR Bands)
- ⊕ Protected Aluminum Coated Optics
- ⊕ Unobscured Off-Axis Newtonian Design
- ⊕ Readily Integrates with SBIR's IR, Visible & Laser Sources
- ⊕ Optional Silver and Gold Coatings
- ⊕ Multiple Aperture and Focal Length Sizes Available

OVERVIEW

The STC Series Off-axis Newtonian Collimators from Santa Barbara Infrared provide superior performance in a compact, light weight, readily integrated package. These collimators accurately project targets at infinite focus for critical visible, IR, SWIR, MWIR and LWIR system testing.

The lightweight, rugged construction of these systems make them ideal for laboratory, production and depot applications.

STC Series Collimators integrate with SBIR's Infinity Series blackbodies and 300 Series target wheels to create the 14000 Series Target Projectors. These target projectors are available in many standard sizes to satisfy the test requirements of most sensor systems. Additionally, their modular design allows for easy customization of components.

SBIR also offers custom and built to specification collimators including large aperture, long focal length optical bench configurations, refractive collimators, portable athermal field/depot configurations and wide field of view systems.

SPECIFICATIONS

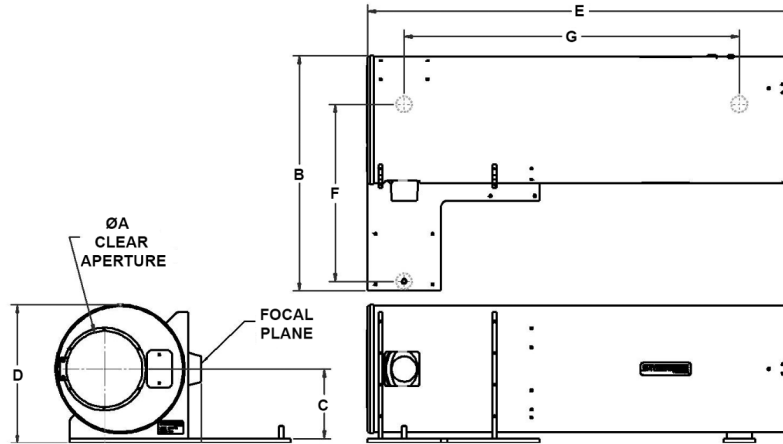
COLLIMATOR MODEL #	CLEAR APERTURE (INCHES)	PARENT FOCAL LENGTH (INCHES)	EFFECTIVE FOCAL LENGTH (INCHES)	MAX TARGET SIZE		DIFFRACTION BLUR		
				ANGULAR (DEGREES)	LINEAR (INCHES)	0.6 μ m (μ Rad.)	4 μ m (μ Rad.)	10 μ m (μ Rad.)
STC-630Z	6.00"	30.00"	30.25"	2.75°	1.44"	9.61	64.04	160.10
STC-840Z	8.00"	40.00"	40.30"	2.86°	2.00"	7.32	48.03	120.10
STC-1260Z	12.00"	60.00"	60.50"	2.86°	3.00"	4.80	32.02	80.05

Solutions

for Every EO Test Requirement

30 S. Calle Cesar Chavez, Suite D • Santa Barbara, Ca. 93103
ph (805) 965-3669 • fax (805) 963-3858 • <http://www.sbir.com>

DIMENSIONS



COLLIMATOR MODEL #	A	B	C	D	E	F	G	H
STC-630Z	6.00"	18.60"	5.50"	10.98"	33.60"	14.00"	26.50"	7.66"
STC-840Z	8.00"	22.50"	8.00"	15.47"	42.77"	16.50"	34.00"	10.42"
STC-1260Z	12.00"	30.00"	11.00"	21.56"	60.50"	21.91"	50.50"	13.00"

CUSTOM COLLIMATORS

Custom collimators are also available for many diverse applications. These collimators are incorporated into both military and commercial systems to meet the varied requirements of laboratory, depot and field environments. Many major programs depend on the unsurpassed quality of SBIR's custom collimators and various infrared, visible and laser source combinations to create turnkey target projector test systems.

ORDER INFORMATION

Please contact SBIR sales team at (805) 965-3669 to ensure proper part number and to receive a quotation.

* Specifications are subject to change without prior notice

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