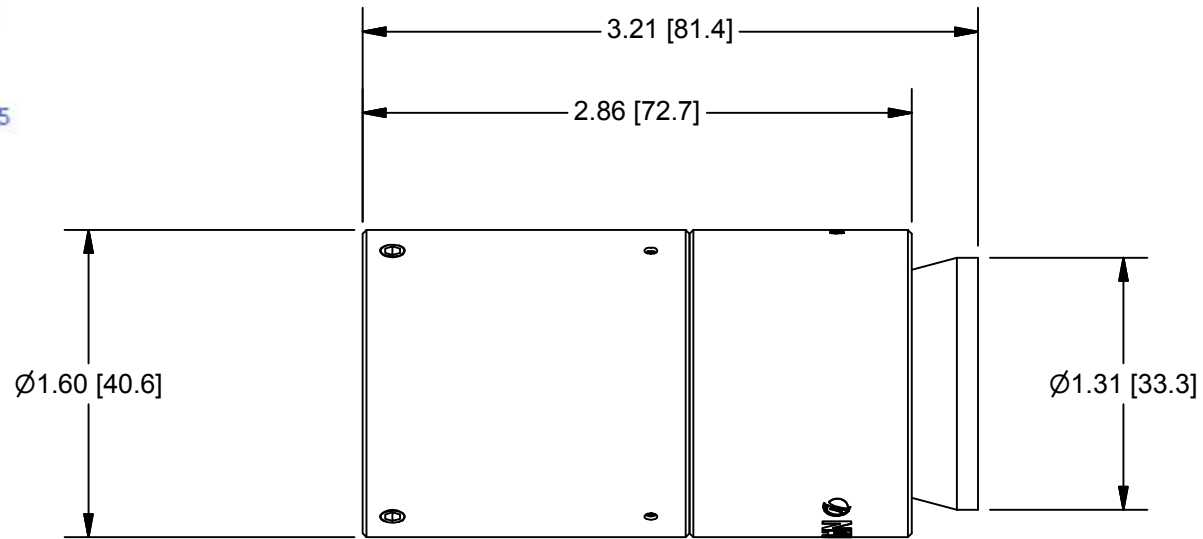




**Pyramid Imaging**

945 East 11th Avenue Tampa, FL 33605  
 sales@pyramidimaging.com  
 www.pyramidimaging.com  
 813-786-3785



FOCAL LENGTH = 200.00 mm  
 OBJECT AT INFINITY  
 F-NUMBER = 14.3  
 IMAGE SPACE NA = 0.035  
 ENTRANCE PUPIL DIAMETER = 14.00 mm  
 ENTRANCE PUPIL LOCATION = 103.0 mm IN FRONT OF FIRST SURFACE  
 PUPIL TO SENSOR DISTANCE = 316.00 mm  
 BACK FOCUS = 195.2 mm  
 SENSOR DIAGONAL = 23.0 mm  
 MTF CUTOFF FREQUENCY AT SENSOR = 130 lp/mm  
 STREHL RATIO ON AXIS = 0.961  
 STREHL RATIO FULL FIELD = 0.933  
 DISTORTION = 0.14 %  
 RELATIVE ILLUMINATION = 99.8 %

# OUTLINE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM] AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NAVITAR. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NAVITAR IS PROHIBITED.		
SCALE: 1:1		TUBE LENS, 200mm(1X)	
WEIGHT: 0.37 lbmass		SIZE	1-22770
DR BY: MLD		A	SHEET 2 OF 2
CH BY: CJH	DO NOT SCALE DRAWING		REV
PROJECT #: E2882			
DATE DR: 5/30/2012			