Lens Information

Part Number:	MVTC23100
Serial Number:	491315
Test Date:	5/5/2014
Tested By:	MC
N° Horizontal Pixels:	2108
N° Vertical Pixels:	2108

Working Distance

The distance between the object and the first		
mechanical surface of the lens.		
W.D., Nominal (mm):	62.2	
W.D., As Tested (mm):	62.2	
W.D. Error (%):	0.00%	

Magnification

Measured on-axis from a square target of a known size in both the tangential and sagittal directions and averaged.

Mag., Nominal:	1
Mag., As Tested:	1.003
Mag. Error (%):	0.30%

Telecentricity

Measured by moving the target between the borders of the field depth test range and recording the change in field heights. The chief ray is then calculated from the ratio of the field height change to the total target displacement.

Maximum (deg):	-0.478

Radial Distortion

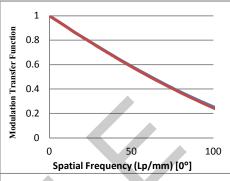
Characterized by measuring the field heights from the center of the field to the edge and calculating the deviation of the measure values from the on-axis magnification.

Avg Radial Distortion (%):	0.03%

Test Conditions

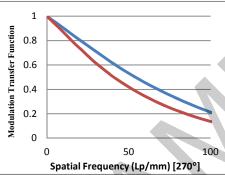
Target: Chrome-on-glass .25mm dots Illumination: 450-650nm white LED telecentric back light source

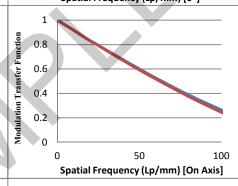
Camera: Grasshoper3 USB3.0 mono, 1" sensor cropped to 2/3" format, 3.69 micron pixel size

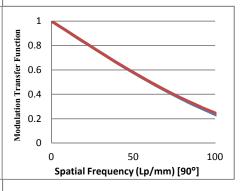


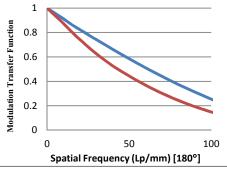
Modulation Transfer Function

The loss of contrast determined from imaging an object, expressed in spatial frequency. The higher the ratio, the higher the contrast. MTF measured on-axis and at four quadrants in the field in both tangential and sagittal directions.









Note: Tangential lines in blue. Sagittal lines in red.

