#### **Lens Information**

Part Number:	MVTC23053
Serial Number:	492321
Test Date:	8/21/2013
Tested By:	MPB/VLW
N° Horizontal Pixels:	2108
N° Vertical Pixels:	2108

## **Working Distance**

is the distance between the object and the		
first mechanical surface of the lens.		
W.D., Nominal (mm):	44.4	
W.D., As Tested (mm):	44.03	
W.D. Error (%):	0.83%	

### Magnification

is measured on-axis from a squ	are target of a
known size in both the tangential and saggital	
directions and averaged.	
Mag. Nominal:	0.528

5	
Mag., Nominal:	0.528
Mag., As Tested:	0.5275
Mag. Error (%):	0.09%

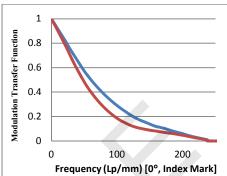
### Telecentricity

is 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):	-0.572

#### **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 saggital directions.

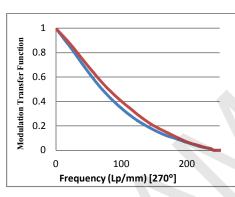


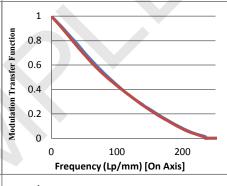
#### **Test Conditions**

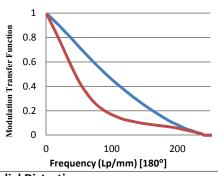
Target: Chrome-on-glass .25mm dots Illumination: 450-650nm white LED telecentric back light source

Camera: Grasshoper3 USB3.0 mono, 1" sensor

cropped to 2/3" format



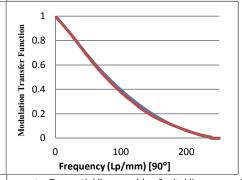




# **Radial Distortion**

is characterized by measuring the field heights from the center of the field to the ede and calcuating the deviation of the measure vaules from the on-axis magnification.

Avg Radial Distortion (%): -0.01%



note: Tangential lines are blue Sagital lines are red

