

MH0824M

1. Introduction

Considering the ever-smaller pixel size of CMOS sensors and the demand of restoring more details in machine vision inspection, a new lineup of FA lenses, the MH-M series, is developed to bring out high performance in resolution and distortion.

Optimized for 2/3" sensors for 8 Mega pixel camera, and working distance of 0.1-1.0m, this series lenses can deliver a sharp image from the center to the corners in common machine vision applications, and bring out more small details with higher contrast.



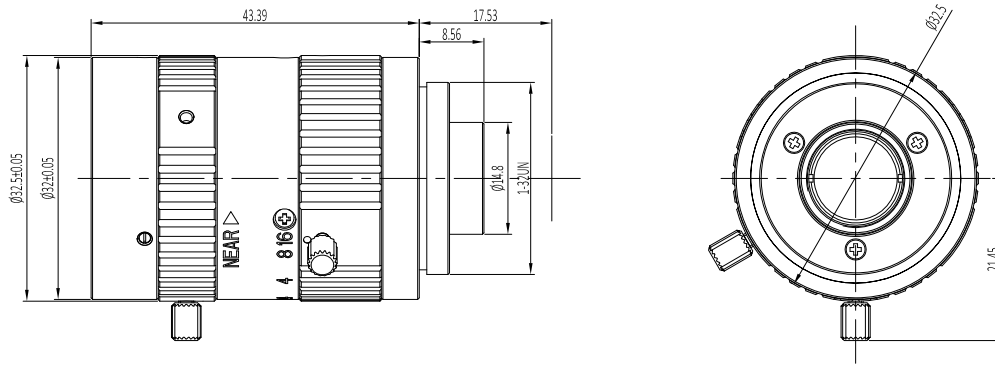
2. Features

- Supports up to 2/3" and 1/3" camera sensors
- 6 models , focal length covering from 8mm to 50mm
- High performance for 8 Mega pixel camera
- TVFree distortion less than 1%
- Stable image quality when temperature varies from -10°C to 50°C
- Compact structure suitable for system integration

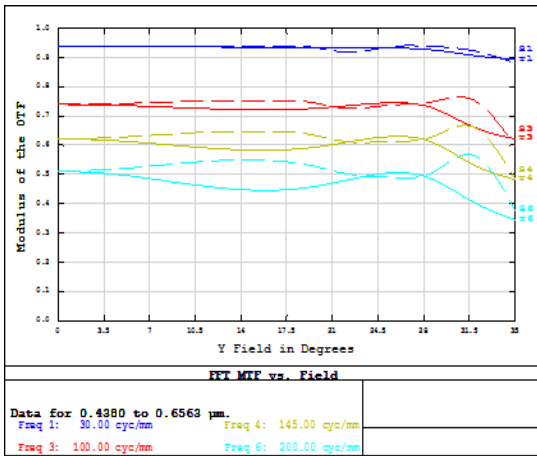
3. Technical Specifications

Items	Spec.	conditions
Focal Length	8.076±0.2mm	WD=0.4m
Relative Aperture	F2.4 - 16	
Maximum Image Circle	Φ11mm(2/3")	
Focus Range	0.1m to infinite	
Optical Distortion	-2.02%	WD=0.4m,F2.4
TV Distortion	-0.41%	WD=0.4m
Angle of View	69°x57.6°x44.8°	For 2/3"(Φ=11mm), WD=0.4m
Relative Illumination	55%	WD=0.4m, F2.4
	73%	WD=0.4m, F4.0
Chief Ray Angle	9.9°	Image Circle=Φ11mm,WD=0.4m
Spectral Transmission	Tave ≥ 85%	At 440nm~680nm
Camera Mount	C-Mount	
Filter Thread	M30.5*P0.5	
Focus Control	Manual	
Iris Control	Manual	
Dimensions	44.39mm*Φ32.5mm	
Weight	89g	net weight
Operating Temperature	-10°C to +50°C	

4. Mechanical Specifications

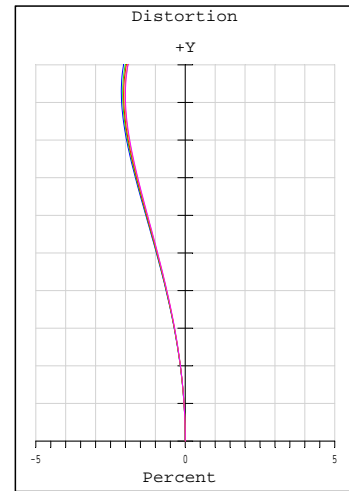


5. MTF VS Field



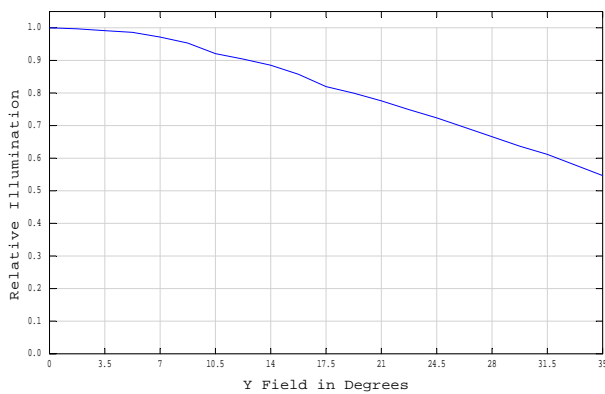
Condition: WD=0.4m, F2.4

6. Distortion

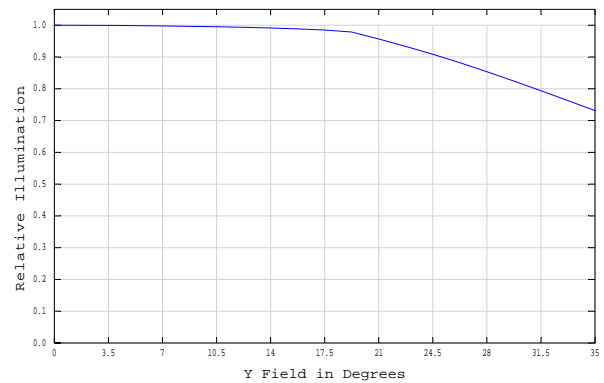


Condition: WD=0.4m

7. Relative illumination



Condition : F2.4



Condition : F4.0