

POMEAS 1.1" FA Lens Series:
20MP: PMS-12UC20M-H



Product Introduction

- ◆ High resolution.
- ◆ Multi layer coating, high transmittance, effective suppression of stray light.
- ◆ Compact structure, small shape, more suitable for integrated application.
- ◆ Lower distortion rate for more application requirements.

Product Application

Widely used in machine vision, production automation and other industries.

PMS-12UC20M-H		Product Parameter	
Model		PMS-12UC20M-H	
Sensor Size		1.1"(17.6mm)	
Wavelength		420~1000nm	
Focal Length		12mm	
Interface		C-Mount	
Iris		F2.8-F22	
FOV(Diagonal, Horizontal, Vertical)	1.1"	70.6°x59.2°x45.4°	
	1"	67.6°x56.7°x43.5°	
	1/2"	37.0°x29.4°x22.0°	
	1/3"	27.6°x22.1°x16.8°	
Object Size(At the closest focusing distance)	1.1"	166.4x133.1x99.8mm	
	1"	150.3x119.0x88.4mm	
	1/2"	73.45x58.64x43.7mm	
	1/3"	54.9x44.4x32.77mm	
Back Focal Length (In Air)		10.6mm	
Operation Mode	Focus	Manual	
	Iris	Manual	
Distortion	1.1"	-0.85%@y=8.8mm	
	1"	-0.80%@y=8.0mm	
	1/2"	-0.6%@y=4.0mm	
	1/3"	-0.4%@y=3.0mm	
Focus Range		0.1m~∞	
Filter Thread Diameter		M37.5xP0.5	
Working Temperature		-20°C~+60°C	

Working Distance	Magnification	FOV					
		1.1"		1"		2/3"	
		H(14.08mm)	V(10.56mm)	H(12.8mm)	V(9.6mm)	H(8.8mm)	V(6.6mm)
100mm	0.104X	139.000	104.000	126.364	94.545	86.875	65.000
150mm	0.072X	198.000	148.000	180.000	134.545	123.750	92.500
200mm	0.056X	257.000	192.000	233.636	174.545	160.625	120.000
250mm	0.045X	316.000	237.000	287.273	215.455	197.500	148.125
300mm	0.038X	374.000	281.000	340.000	255.455	233.750	175.625
350mm	0.033X	433.000	325.000	393.636	295.455	270.625	203.125
400mm	0.029X	492.000	369.000	447.273	335.455	307.500	230.625
450mm	0.026X	551.000	413.000	500.909	375.455	344.375	258.125
500mm	0.023X	610.000	457.000	554.545	415.455	381.250	285.625
550mm	0.021X	669.000	502.000	608.182	456.364	418.125	313.750
600mm	0.019X	728.000	546.000	661.818	496.364	455.000	341.250
650mm	0.018X	787.000	590.000	715.455	536.364	491.875	368.750
700mm	0.017X	845.000	634.000	768.182	576.364	528.125	396.250
800mm	0.015X	963.000	722.000	875.455	656.364	601.875	451.250
900mm	0.013X	1081.000	811.000	982.727	737.273	675.625	506.875

PMS-12UC20M-H		Product Dimension	
Unit: mm			