



LEOPARD
IMAGING

LI-AR2020-GMSL3-096H



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

INTRODUCTION

The LI-AR2020-GMSL3-096H is equipped with ON Semiconductor 1/1.8-inch 20 Mp CMOS sensor AR2020 which features advanced 1.4 μm pixel stacked BSI technology and Maxim GMSL3 serializer MAX96793G. This camera outputs 5120 x 3840 RAW data.

SPECIFICATIONS

Sensor	ON Semiconductor 20 Mp CMOS sensor AR2020
Optical Format	1/1.8"
Resolution	5120 (H) x 3840 (V) (active pixels)
Pixel Size	1.4 μm Back Side Illuminated (BSI)
Sensor	Color sensor
Output Format	10-bit RAW data
Maximum Frame Rate	30 fps @ 5120 x 3840
HDR (High Dynamic Range)	Supported
Serializer	Maxim GMSL3 MAX96793G
Power Supply Range	9 ~ 19 VDC
Connector	FAKRA Z TYPE
IP Rating	TBD
Power Consumption	TBD
Operating Temp	TBD
Storage Temp	TBD
Weight	~ 46 g
Part#	LI-AR2020-GMSL3-096H

APPLICATIONS

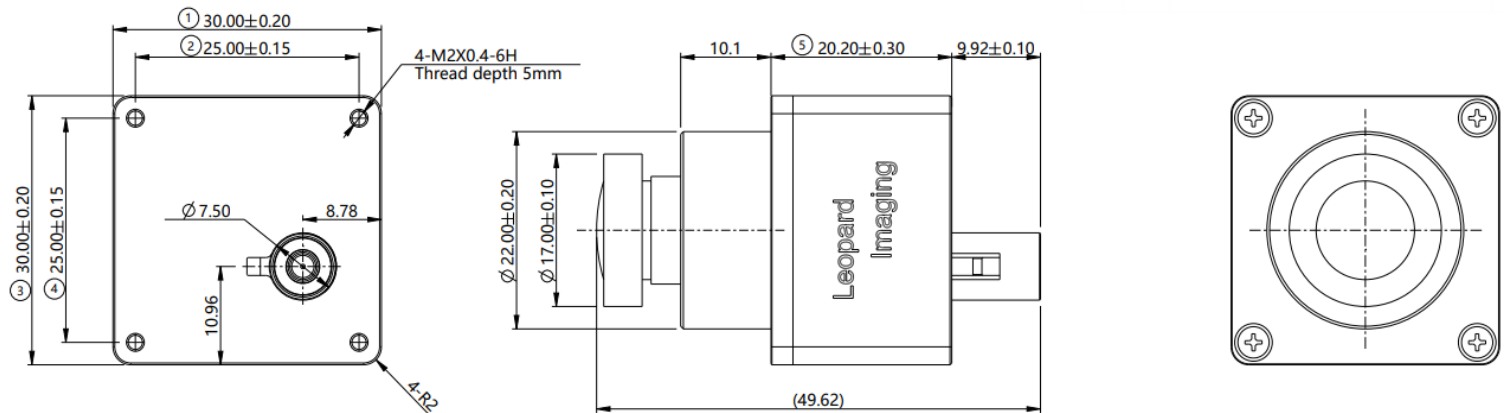
- Surveillance Camera
- Video Conferencing
- Machine Vision
- 3D and Stereo Imaging
- Barcode Scan

Lens Specifications

Focal Length	4.5 mm
Aperture, F/#	2.8
Field of View (FOV)	124° diagonal
	96° horizontal
	71° vertical
Optical Distortion	< -44%
IR Filter	650 nm IR cut filter
Lens Mount	M12 x P0.5



DIMENSIONS



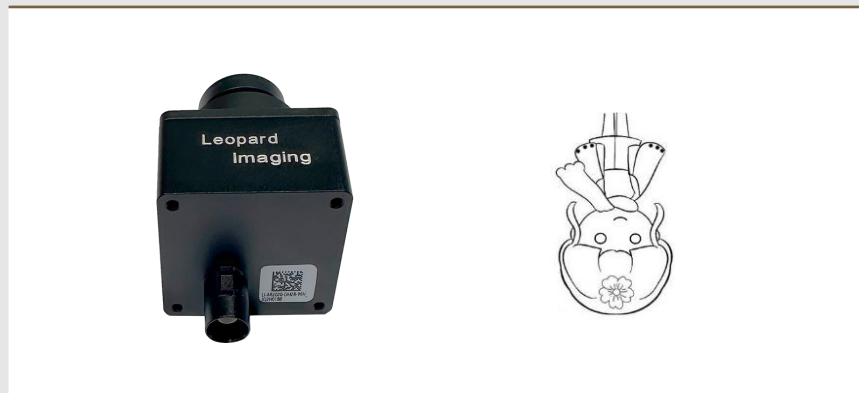
NOTE:

- ⊗ marked are important sizes.
- Tolerances for others unmarked refer to the Tolerance table.
- All materials are compliant with RoHS & REACH requirements.

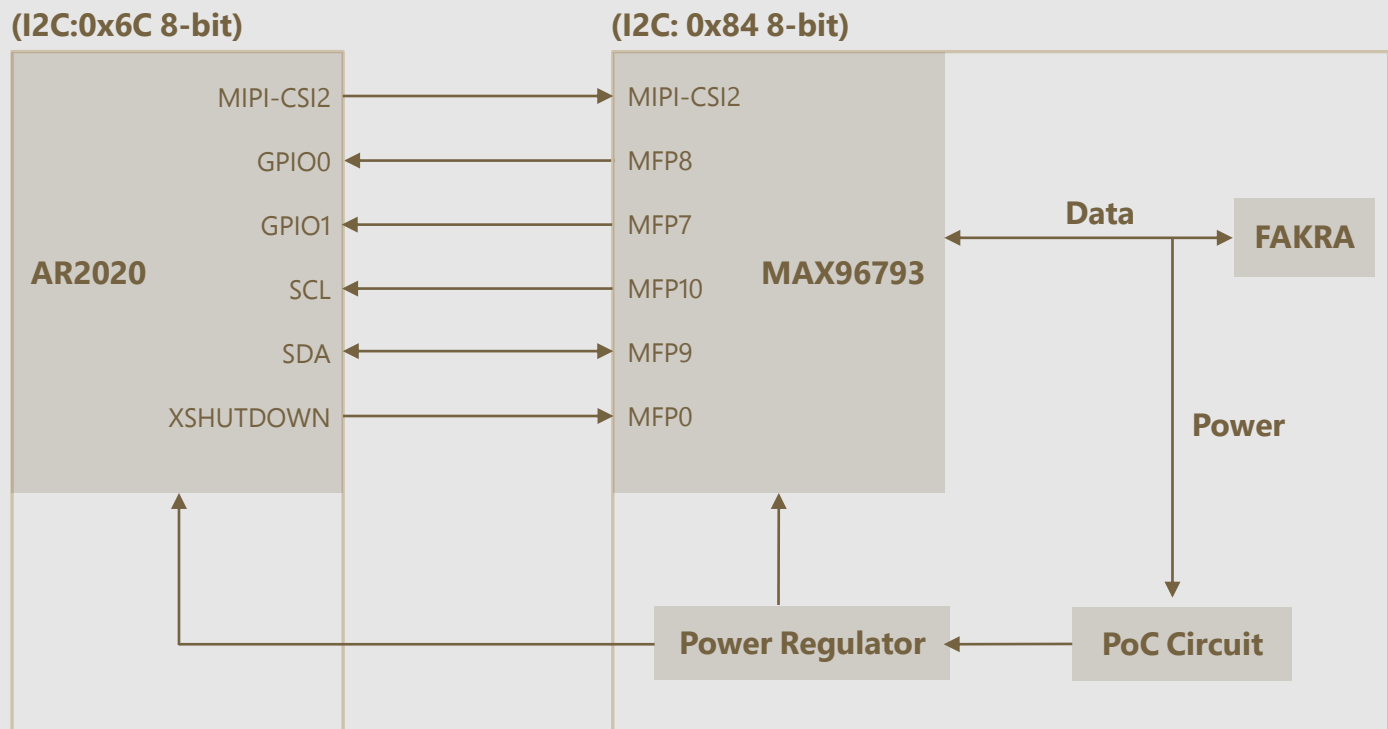
Unit: mm

TOLERANCE TABLE					
LENGTH TOLERANCE		CHAMFER TOLERANCE		ANGLE TOLERANCE	
Size X	Tolerance	Size X	Tolerance	Size X	Tolerance
0.5 < X ≤ 3	±0.1	0.5 < X ≤ 3	±0.2	X ≤ 10	±1°
3 < X ≤ 6	±0.1	3 < X ≤ 6	±0.5	10 < X ≤ 50	±30'
6 < X ≤ 30	±0.2	6 < X ≤ 30	±1	50 < X ≤ 120	±20'
30 < X ≤ 120	±0.3	X > 30	±2	120 < X ≤ 400	±10'
120 < X ≤ 400	±0.5			X > 400	±5°
400 < X ≤ 1000	±0.8				
X > 1000	±1.2				

IMAGE ORIENTATION



SYSTEM BLOCK DIAGRAM



● REVISION HISTORY

Revision	Description	Release Date
0.1	Initial draft.	18 Jun 2025
0.2	Deleted LFM specification.	19 Jan 2026

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Website: www.leopardimaging.com

