

Standard specifications

astorino vision system

1st Edition: January 17, 2024

KAWASAKI HEAVY INDUSTRIES, LTD.

ROBOT DIVISION

DESIGNED AND MANUFACTURED BY ASTOR

Technical specifications

Characteristics	Astorino Conveyor	
Working environment	Temperature	0–40°C
	Humidity	35–80%
Processor	ARM® 32-bit Cortex®-M7 CPU	
RAM	33MB	
Supported Image Formats	Grayscale	
	RGB565	
	JPEG	
Max. Supported Resolutions	2952x1944	
	25-50 FPS on QVGA (320x240)	
Lens Info	Focal Length: 2.8mm	
	Aperture: F2.0	
	Format: 1/3"	
	HFOV = 70.8°, VFOV = 55.6°	
	Mount: M12*0.5	
Power supply	5V – Camera	
	12V - Light	
Power Consumption	Idle: 140mA @ 3.3V	
	Active: 230mA @ 3.3V	
	Light – 300 mA @ 12V	
Programming language	MicroPython	
Programming interface	MicroUSB	
Programming software	OpenMV IDE	
Material	PET-G	
Colour	Black	
Communication	UART (Serial)	
Weight	50g	
Possible applications	TensorFlow lite for microcontrollers support	
	Frame differencing	
	Colour tracking	
	Marker tracking	
	Face detection	
	Eye-tracking	
	Person detection	
	Optical flow	
	QR code detection/Decoding	
	Data matrix detection/Decoding	
	Linear barcode decoding	
	April Tag tracking	
	Line detection	
Circle detection		
Rectangle detection		

