

# **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		IR Cut Filter: 650nm (removable)
		5V – Camera
Power Consumption		12V - Light
		Idle: 140mA @ 3.3V
		Active: 230mA @ 3.3V
Programming language		Light – 300 mA @ 12V
Programming interface		MicroPython
Programming software		MicroUSB
Material		OpenMV IDE
Colour		PET-G
Communication		Black
Weight		UART (Serial)
Possible applications		50g
		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

