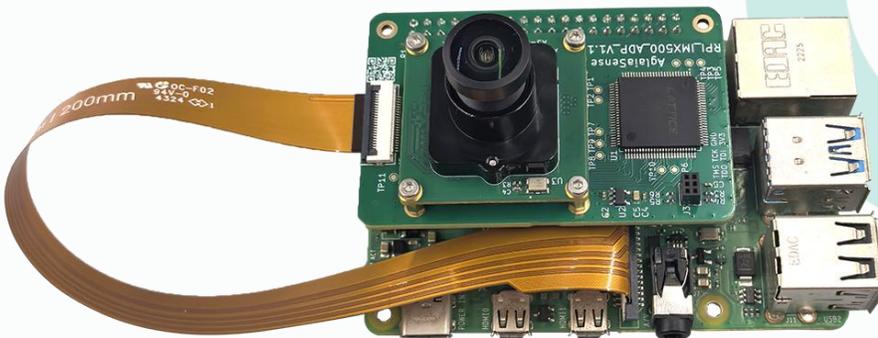


# DK500-HXXX-RPI4 System



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## Key Spec

<b>Sensor</b>	Sony Diagonal 7.857 mm (Type 1/2.3) 12.3MP CMOS Intelligent Vision Sensor IMX501 with AI Processing Functionality
<b>Optical Format</b>	1/2.3"
<b>Pixel Size</b>	1.55 x 1.55 $\mu$ m
<b>Output Format</b>	RGB888, RAW (optional)
<b>Resolution &amp; Frame Rate</b>	RAW image: 2016 x 1520 @ 30 fps (Binning mode) Webserver: 416*416 @ 30 fps
<b>ISP + AI Processing</b>	Supported
<b>AI Function</b>	Traffic counting, regional alarm, asset protection, object detection and parking
<b>Lens FOV (H)</b>	42° / 90° / 120°
<b>Region Of Interest (ROI) of Sensor</b>	Configurable
<b>Color / Mono</b>	Color sensor
<b>Power Consumption</b>	TBD
<b>Operating Temp</b>	-20°C ~ +65°C
<b>Storage Temp</b>	-20°C ~ +80°C
<b>Weight</b>	~ 100 g
<b>Dimensions (mm)</b>	65.1 (L) x 42.1 (W) x 50 (H)

## Components

<b>Sensor Board</b>	AS-MS500_SENSOR
<b>Adapter Board</b>	RPI_IMX500_ADP
<b>Camera Cable</b>	Standard – Mini, 200 mm
<b>Lens Mount</b>	M12 / M16
<b>Lens Field of View, Horizontal</b>	42° / 90° / 120°...

## Application Areas

- Smart City / Building
- Traffic Management
- Parking Management
- Dynamic Lighting
- Crowd Management
- Smart Logistic
- Smart Store
- Industrial Automation

Part#	Lens Specification	
<b>DK500-H120-RPI4</b>	Focal Length	3.2 ± 5% mm
	Aperture, F/No	2 ± 5%
	FOV (Field of View)	120° horizontal
	TV Distortion	< -13%
	Relative Illumination	> 79%
	IR Filter	650nm IR Cut filter
	Lens Mount	M12 * P0.5
<b>DK500-H090-RPI4</b>	Effective Focal Length	4.0 ± 5% mm
	Aperture, F/No	2.8 ± 5%
	FOV (Field of View)	90° horizontal
	Distortion (SMIA-TV)	< -19%
	Relative Illumination	> 82%
	IR Filter	650nm IR cut filter
	Lens Mount	M12 * P0.5
<b>DK500-H042-RPI4</b>	Focal Length	10.44 ± 5% mm
	Aperture, F/No	1.0 ± 10%
	FOV (Field of View)	42° horizontal
	TV Distortion	-1.4%
	Relative Illumination	52%
	IR Filter	650nm IR Cut filter
	Lens Mount	M16 * P0.5

Reach out to us if you have questions

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