## 

Wahtari Provides an Ideal Platform for Running Al Models On-The-Edge with its Smart 

### **Areas of Application**

All Industries can Benefit from AI Technology.



Qualiy Control/Color Detection e.g. color values, color gradients, discoloration, minimal deviations from the target value



detection and sorting of brocken tiles e.g. cracks, spalling, discolorations

Bark Inspection of Tree Loas e.g. detect residual bark,

measure length



e.g. cracks & holes

Gloves

WAHTARI **On-The-Edge** Al-Lösung

Quality Inspection of Rubber Parts e.g. fractures, deformations

### nCam Highlights



#### **Modular Design** Choose your optimal configuration

**High Performance** 

Integrated Lighting

Motorized Lense

#### Innovation that Fits in the Palm of Your Hand.

With the NVIDIA Jetson Series SoMs is the nCam currently one of the most compact high-end vision AI systems on the market. Packaged in an aluminum housing with its sophisticated cooling system, the camera reliably delivers results in the lower millisecond range even under the toughest conditions.

## **Open Architecture for Perfect Solutions.**

With its open architecture, the Wahtari nCam is an ideal interface for combining your own hardware and software with components from Wahtari or external suppliers to create the perfect AI platform.



- Experts for AI-based image recognition
- Experience from many different industries
- Latest technologies
- Hardware and software from one hand

#### Al Partner Wahtari

We deliver ready-to-use AI systems that are customized to the conditions in your company. Our optimized pipeline enables us to realize projects for any budget.

We support you in taking advantage of the opportunities offered by the latest technological developments and setting yourself apart from your competitors.

# Configuration Options

#### 7 Steps to Build Your Vision Solution

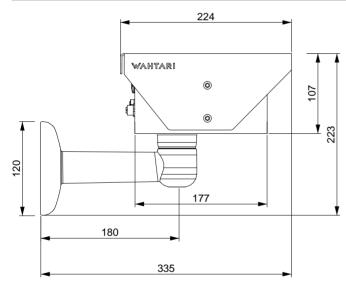
Customized adaptations are possible on request

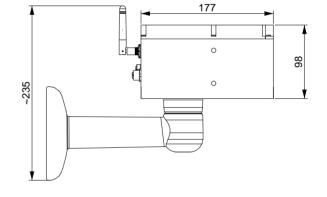
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1 Physical Attributes							
Dimensions (L x W x H)	177mm x 110mm x 98mm   224mm x 130mm x 107mm (without   with sun shield)						
Weight	2,3 kg   1,9kg (without   with sun shield & mounting arm)						
Operating Temperature	0 - 60°C						
Housing Material	Full aluminium body with anodized surface						
2 Electrical							
10	1x Ethernet (PoE)						
	1x Service Port						
	1x Power Port (optional)						
	2x Industrial Input (optional) (10V - 50V)						
	4x Industrial Output (optional) (10V - 50V)						
	Wifi Adapterboard (optional)						
	4G + GPS Adapterboard (optional)						
	5G + GPS Adapterboard (optional)						
Input Voltage	24V - 48V DC						
Power Consumption	25W average, up to 70W (with 100% load and 100% lighting usage)						
ΡοΕ	802.3bt 70W						
			Jetson Orin NX				
3 Computing Stack	Jetson Xavier NX		Jetson Orin	NX			
3Computing StackOperating System	Jetson Xavier NX Jetpack 5.0.2	-	Jetson Orin I Jetpack 5.0.2	NX			
		-	Jetpack 5.0.2	NX pere, with 32 Tensor Cores			
Operating System	Jetpack 5.0.2	_	Jetpack 5.0.2	pere, with 32 Tensor Cores			
Operating System GPU	Jetpack 5.0.2 384-Core Volta GPU		Jetpack 5.0.2 1024 Core Am	pere, with 32 Tensor Cores ortex- A78AE			
Operating System GPU CPU	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co	pere, with 32 Tensor Cores ortex- A78AE			
Operating System GPU CPU Ram	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE	pere, with 32 Tensor Cores ortex- A78AE DR5			
Operating System GPU CPU Ram	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC	pere, with 32 Tensor Cores ortex- A78AE DR5			
Operating System GPU CPU Ram Storage	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC	pere, with 32 Tensor Cores ortex- A78AE DR5			
Operating System GPU CPU Ram Storage	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC	pere, with 32 Tensor Cores ortex- A78AE DR5			
Operating System GPU CPU Ram Storage 4 Certification IP 67	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes	Option 2	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC	pere, with 32 Tensor Cores ortex- A78AE DR5			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes Yes	<b>Option 2</b> 12 - 50mm	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC	pere, with 32 Tensor Cores ortex- A78AE DR5 Ne 2242			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE 5 Lens	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes Yes <b>Option 1</b>		Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC M.2 Slot, NVM	pere, with 32 Tensor Cores ortex- A78AE DR5 Me 2242 Option 3			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE 5 Lens Focal Length	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes Yes <b>Option 1</b> 9 - 36mm	12 - 50mm	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC M.2 Slot, NVM	pere, with 32 Tensor Cores ortex- A78AE DR5 Me 2242 Option 3 4 - 10mm			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE 5 Lens Focal Length Optical Zoom & Focus	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes Yes <b>Option 1</b> 9 - 36mm Motorized (programmable)	12 - 50mm Motorized (pro	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC M.2 Slot, NVN	pere, with 32 Tensor Cores ortex- A78AE DR5 Me 2242 Option 3 4 - 10mm Motorized (programmable)			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE 5 Lens Focal Length Optical Zoom & Focus Iris	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes <b>Option 1</b> 9 - 36mm Motorized (programmable)	12 - 50mm Motorized (pro Motorized (pro	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC M.2 Slot, NVN	pere, with 32 Tensor Cores ortex- A78AE DR5 Ae 2242 <b>Option 3</b> 4 - 10mm Motorized (programmable) Motorized (programmable)			
Operating System GPU CPU Ram Storage 4 Certification IP 67 CE 5 Lens Focal Length Optical Zoom & Focus Iris Optical Filter	Jetpack 5.0.2 384-Core Volta GPU 6-Core ARM 64 Bit CPU 8/16 GB LPDDR4 16 GB eMMC M.2 Slot, NVMe 2242 Yes Yes <b>Dption 1</b> 9 - 36mm Motorized (programmable) Motorized (programmable) Switchable IR cut above 850nm up to 12.4MP	12 - 50mm Motorized (pro Motorized (pro Switchable IR co	Jetpack 5.0.2 1024 Core Am 6-Core Arm Co 8/16 GB LPDE 16 GB eMMC M.2 Slot, NVN	pere, with 32 Tensor Cores ortex- A78AE DR5 Me 2242 <b>Option 3</b> 4 - 10mm Motorized (programmable) Motorized (programmable) Switchable IR cut above 850nm			

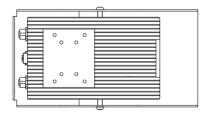


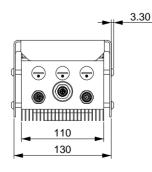
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6 Imaging	Option 1	Option 2	Option 3	Option 4	
Resolution (W x h, MP)	1936 x 1216, 2.4 MP	2464 x 2064, 5.1 MP	2848 x 2848, 8.1 MP	4024 x 3036, 12.2 MP	
Sensor	Sony IMX392	Sony IMX547	Sony IMX546	Sony IMX226	
Max. Frame Rate	126	79	95	29	
Output Formats	MJPEG, H.264, H.265	MJPEG, H.264, H.265	MJPEG, H.264, H.265	MJPEG, H.264, H.265	
Exposure Control	Global Shutter	Global Shutter	Global Shutter	Rolling Shutter with	
				Global Reset	
7 Lighting	Option 1		Option 2		
Integrated LED Boards	White Light		IR Light		
Transmission Angle	100°		30-60°		
CRI	96		NA		
Range	up to 20m		up to 35m		









Approximate measurement Drawing not in scale

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