



Industrial PC

Spectra Vision i4K 1213

**Compact 3U Industrial PC with 12th/13th Generation CPU
for Machine Vision / AI Applications**

Features

- Compact 3U Industrial PC
- 600 Watt AC Industrial Power Supply (DC Version optional)
- Industrial Mainboard with 1x PCIe 5.0 (x16) and 2x PCIe (x4) Expansion Slots
- Intel® Core™ i5/i7/i9 Processors of the 12th and 13th Generation (long term availability)
- NVIDIA Profi Graphics Card
- 2 x Intel 2.5 Gigabit-LAN onboard
- Interfaces: 1 x VGA, 1x DVI, 2x DP, 1x HDMI,
2 x RJ45, 2 x USB3.2 Gen2, 2 x USB3.2 Gen1 (Front)



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Technical Data

Basic Device Properties

System

Industrial Mainboard	for 24h/7d Operation, long-term available
CPU Socket	LGA1700 for 12th/13th Generation Intel® Core i3/i5/i7/i9 Alder / Raptor Lake up to 125 Watt
Chipset	Intel® R680
Memory Socket	<ul style="list-style-type: none"> 4 x 288-Pin DDR5-DIMM max. 128 GB PC4400 (ECC or Non-ECC)

Controllers

Graphics	Intel® UHD-Grafik 770
Network	2 x Intel i225LM 2.5 GbE
Audio	-

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> 1 x PCIe (x16) 5.0 2 x PCIe(x4) 4.0 for each, one expansion card
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Drives

Connectors	<ul style="list-style-type: none"> 4 x SATA-6G-Ports (AHCI, RAID 0/1/5/10) 1 x M.2-Socket (M-Key, 2280, Gen5 PCIe(x4))
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Interfaces

Front	<ul style="list-style-type: none"> 2 x USB3.2 Gen1 (5 Gbps)
Rear	<ul style="list-style-type: none"> 1 x VGA, 1 x DVI, 2 x DP, 1 x HDMI 2 x RJ45 2 x USB3.2 Gen2 (10 Gbps)
Internal (not activated)	<ul style="list-style-type: none"> 2 x USB3.2 Gen2 (10 Gbps) 2 x USB2.0 (480 Mbps) 2 x RS-232 2 x RS-422/485 1 x TPM Header

Mechanical & Environment Conditions

Chassis	<ul style="list-style-type: none"> Compact 3U Chassis Suitable for up to 3 PCIe Cards 1 x 120, 1x 80 und 2 x 60 mm Chassis fans Front-Panel: 1 x Power, 1 x Reset, 2 x USB LED-Display: 0,96" OLED for Status Monitoring Color: Black
Power Supply	<ul style="list-style-type: none"> 600 Watt Industrial Power Supply, 80plus Gold 1 x 40 mm Fan MTBF: >100.000 h @ 25° C
Dimensions (WxHxD)	340 x 133 x 330 mm
Weight	approx. 9 kg
Temperatures	<ul style="list-style-type: none"> Operating temperature: 0°C to +50°C Rel. Humidity: 5% to 90%, non condensing
Mounting	<ul style="list-style-type: none"> In packing list: Brackets for Wall- / Table- / Under-table Mounting Optional: 19"-Rack Mounting Bracket (Art.Nr. 157718)
Warranty	24 months
Certificates	CE, EN 62368-1, EN 61000-6-2

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Systems Configurations

Pre-defined Systems

Model	Spectra Vision i4K i7-12700E-11	Spectra Vision i4K i9-12900E-11
Article n°	171102-16-512G-A2000-W11	171102-32-1T-A4000-W11
Processor	Intel® Core™ i7-12700E	Intel® Core™ i9-12900E
RAM	16 GB DDR5	32 GB DDR5
SSD	512 GB M.2 NVMe	1 TB M.2 NVMe
Graphics Card	Nvidia RTX A2000 12GB	Nvidia RTX A4000 16GB
Operating System	Microsoft® Windows® 11 IoT Enterprise LTSC 2024, 64-bit, German / English	
Operating Temperature	0°C ~ +50°C	0°C ~ +50°C

Model	Spectra Vision i4K i7-12700E	Spectra Vision i4K i9-12900E
Article n°	171102-16-512G-A2000-W10	171102-32-1T-A4000-W10
Processor	Intel® Core™ i7-12700E	Intel® Core™ i9-12900E
RAM	16 GB DDR5	32 GB DDR5
SSD	512 GB M.2 NVMe	1 TB M.2 NVMe
Graphics Card	Nvidia RTX A2000 12GB	Nvidia RTX A4000 16GB
Operating System	Microsoft® Windows® 10 IoT Enterprise LTSC 2021, 64-bit, German / English	
Operating Temperature	0°C ~ +50°C	0°C ~ +50°C

System Configuration Options

Processor

- Intel Core i5-12500E (65 Watt, 6 Performance Cores @ 2,9 GHz + 0 Efficiency Cores)
- Intel Core i5-13500E (65 Watt, 6 Performance Cores @ 2,4 GHz + 8 Efficiency Cores)
- Intel Core i7-12700E (65 Watt, 8 Performance Cores @ 2,1 GHz + 4 Efficiency Cores)
- Intel Core i7-13700E (65 Watt, 8 Performance Cores @ 1,9GHz + 8 Efficiency Cores)
- Intel Core i9-12900E (65 Watt, 8 Performance Cores @ 2,3 GHz + 8 Efficiency Cores)
- Intel Core i9-13900E (65 Watt, 8 Performance Cores @ 1,8GHz + 16 Efficiency Cores)

(Processors with up to 125W upon request)

Memory

- 16 / 32 / 64 / 128 GB DDR5 RAM (ECC optional)

Drives

- 256GB / 512GB / 1TB / 2TB NVME M.2 SSD as System Drive
- Up to 4x 2.5" SATA SSD/HDD as Data Drive (RAID1 & Removable Tray optional)

Graphics Cards


- PNY Nvidia RTX A2000/12GB-SB (PCIe4.0, D-LPFL, 4mDP, 70W)
- PNY Nvidia RTX A4000/16GB (PCIe4.0, S-LPFL, 4DP, 140W)
- PNY Nvidia RTX A4500/20GB (PCIe4.0, D-FHFL, 4DP, 200W)

Operating systems (incl. USB-Recovery-Stick and Acronis True Image)

- Windows 11 IoT Enterprise
- Windows 10 IoT Enterprise
- Windows 11 Pro
- Linux Versions

Ask us!



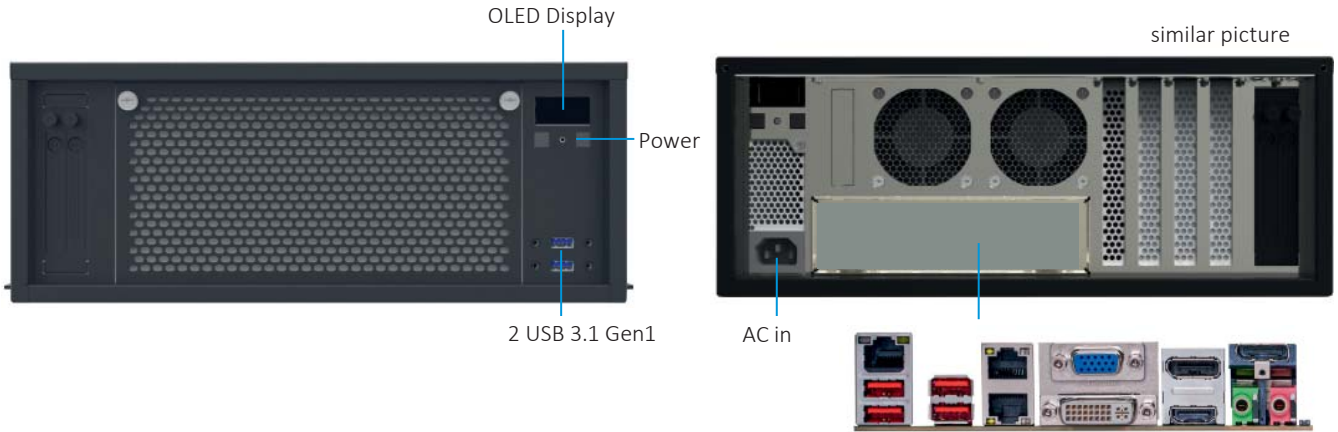
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Details



OLED Display



Mounting Possibilities



Wall-, Table-, Under-table Mounting
with Brackets included in packing list



Table mounting



Under-table mounting



19" Rack Mounting with optional 19" Brackets



Wall mounting (front)

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