Cleartex

Cleartex Vision 15.6 Basic

Technical datasheet



Product series: Cleartex Vision

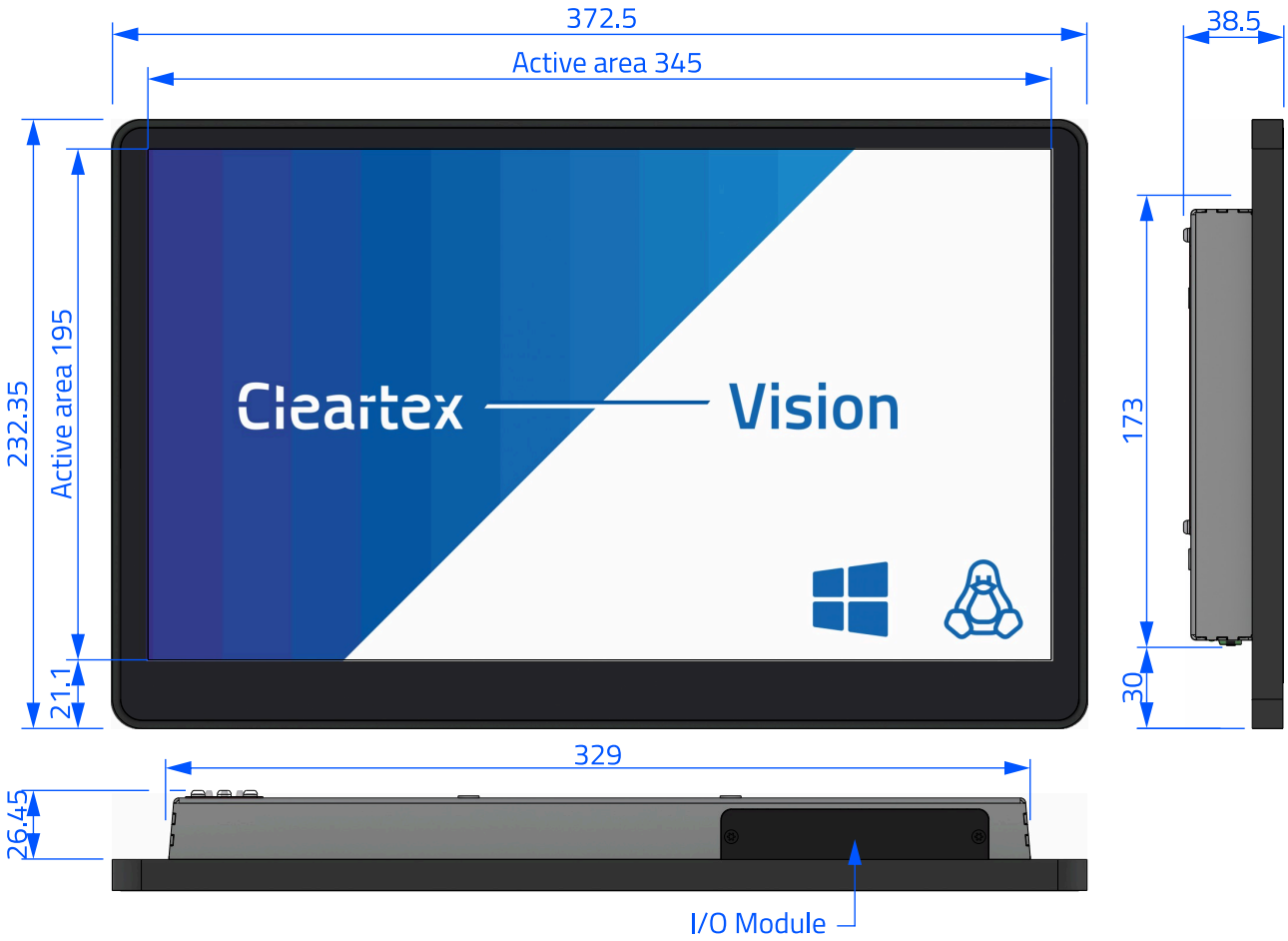
Size: 15.6" Basic

Technical data

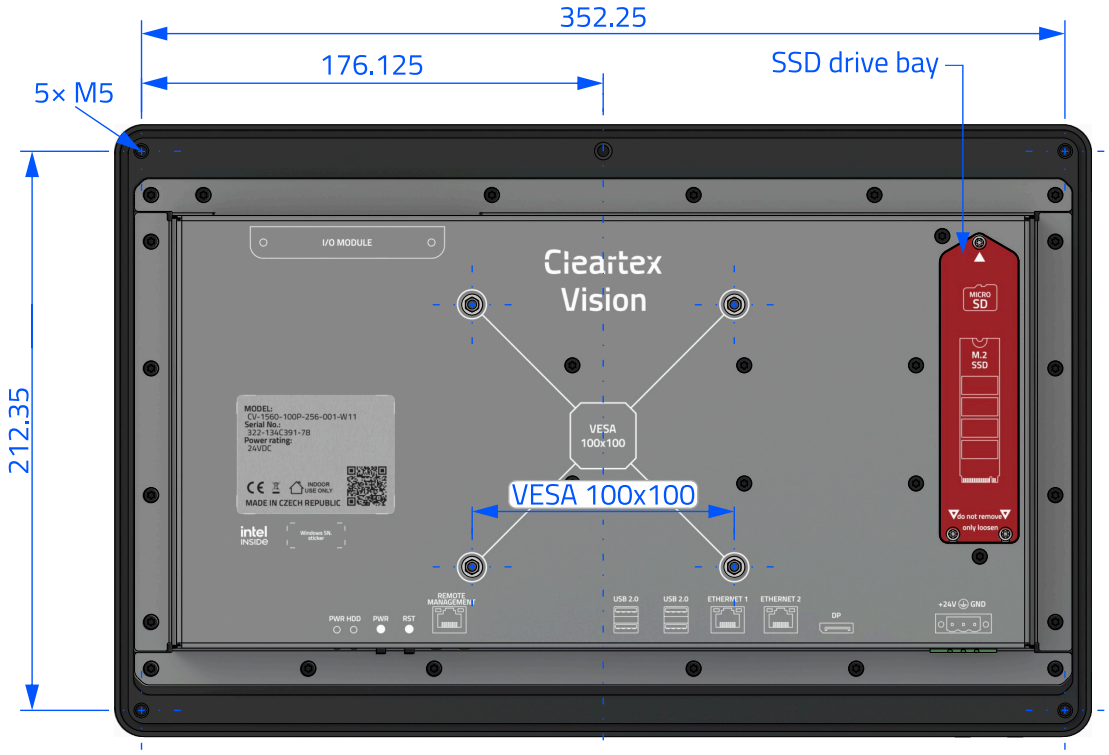
	Passive cooling	Active cooling
	Main properties	
Cooling	Fanless. Silent operation. Heat dissipated by aluminium back.	Integrated cooling fan. Air intake and exhaust on back panel.
Operating system	Windows 11 (64-bit), Windows 10 (64-bit), Linux Ubuntu, Linux Mint, other Linux distributions	
Operating temperature	0 to 60°C (non-condensing humidity)	
Storage temperature	-20 to 80°C (non-condensing humidity)	
Transport temperature	-20 to 80°C (non-condensing humidity)	
Materials	Front panel aluminum, backside stainless steel	
Ingress protection	Front side IP54 (only when mounted in control cabinet cutout), back side IP20	
Weight	1.9 kg	2.3 kg
Mounting	VESA 100×100 or cutout	
Power voltage	12-30 VDC	
Power consumption	33 W	38 W Intel N100 48 W Intel N305
Lifetime	45000 h (max. temperature 45 °C)	
	Dimensions	
Width	372.5 mm	
Height	232.35 mm	
Active area width	345 mm	
Active area height	195 mm	
Depth	38.5 mm	46.5 mm
Cutout installation depth	26.45 mm	34.5 mm
	Display	
Type	IPS, Capacitive Multi-Touch, Optical bonding	
Size (diagonal)	15.6"	
Resolution	1920×1080 (Full HD)	
Brightness	300 cd/m2	
Colors	16.7 million (RGB, 8 bits per channel)	
	Controller	
CPU	Option 1 (passive or active cooling): Intel N100, 4 cores up to 3.4GHz, 8GB LPDDR5 Option 2 (active cooling only): Intel Core i3-N305, 8 cores up to 3.8GHz, 16GB LPDDR5	
Performance under load[1]	Intel N100: maximum CPU freq. 1.6 GHz	Intel N100: maximum CPU freq. 2.2 GHz Intel N305: maximum CPU freq. 2.9 GHz
Interfaces	4×USB 2.0 (back side) 2×Gigabit Ethernet 1×Dedicated remote management port (Ethernet): status monitoring, power on/off 1×Display port optional I/O module (Inputs, outputs, advanced communication, etc.)	
	Storage	
HDD	easily accessible M.2 NVMe SSD	
Other	MicroSD slot next to SSD	

[1] Measured during 2 h continuous stress test at 100% load, ambient temperature 25 °C, vertical mount, free air conditions

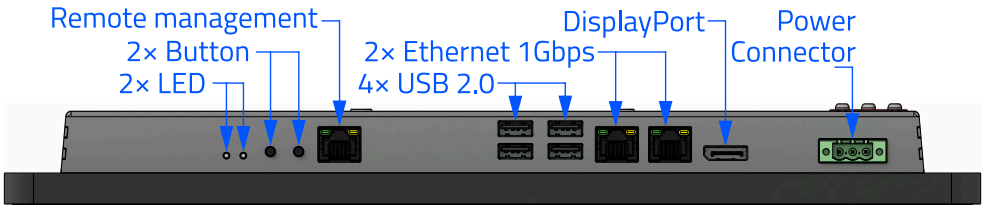
Drawings - passive cooling



Front side drawing (passive variant)

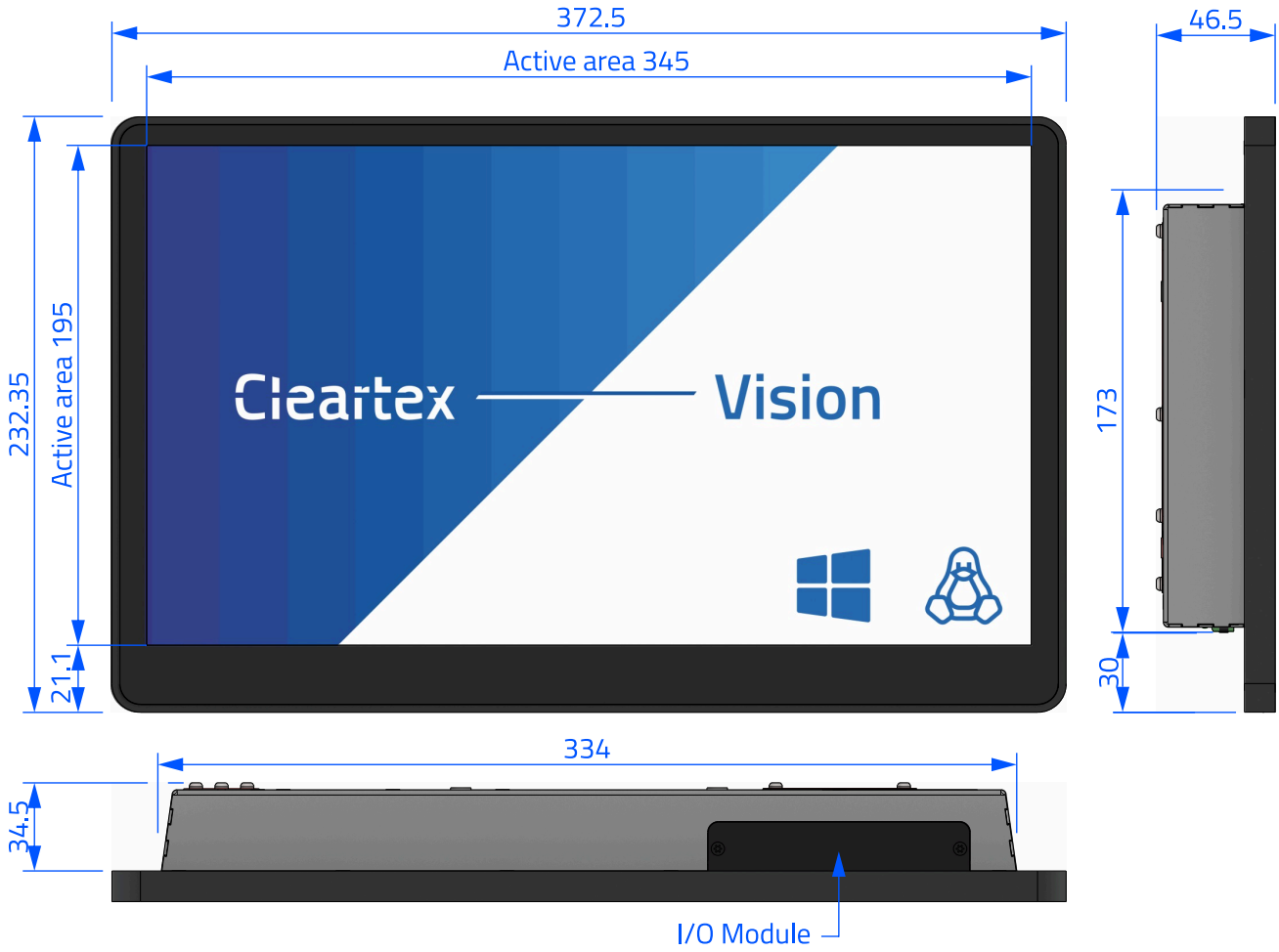


Back side drawing (passive variant)

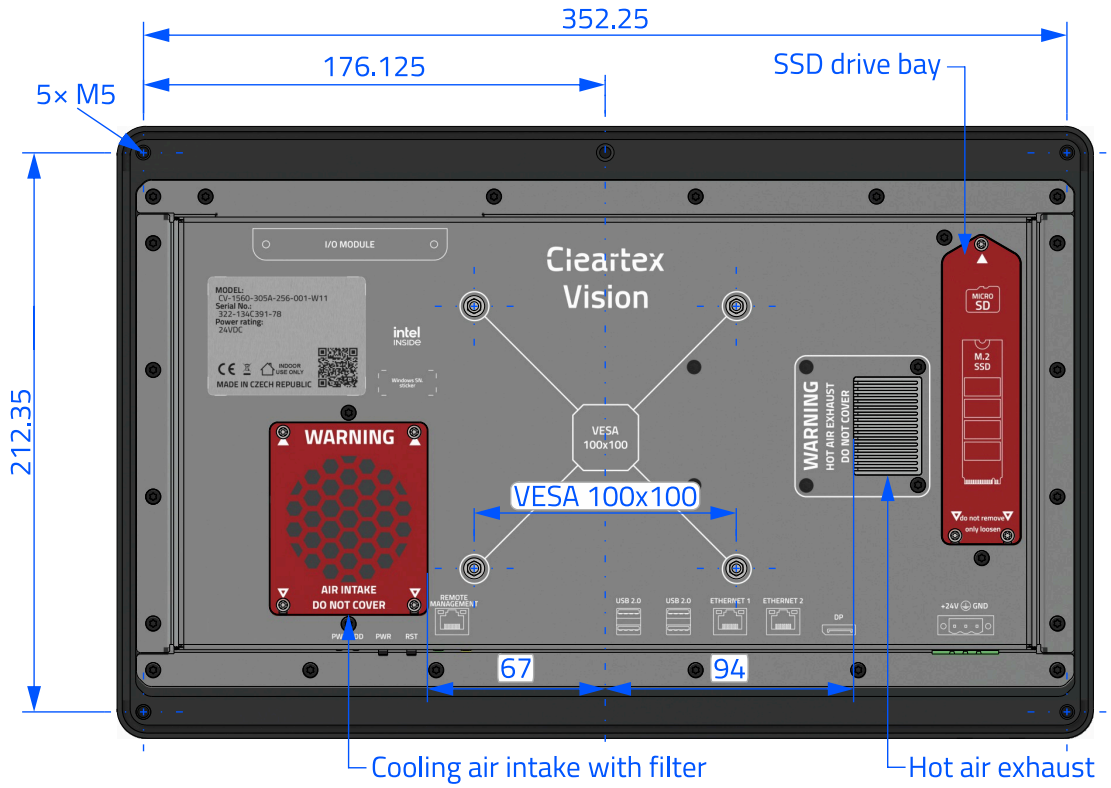


Bottom view (passive variant)

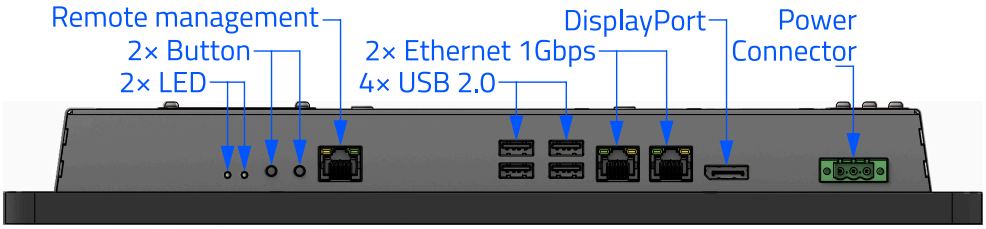
Drawings - active cooling



Front side drawing (active variant)



Back side drawing (active variant)

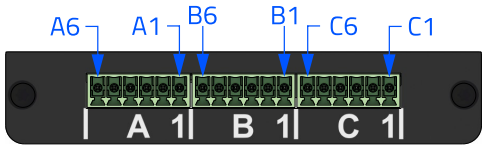


Bottom view (active variant)

IO module options

IO-1 (DI, DO, relays, RS485)

Module have separate power, two inputs, two outputs, two relays and RS485 interface.



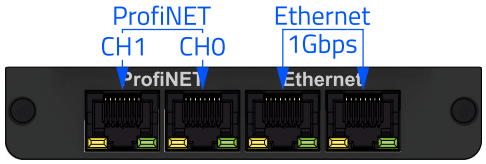
IO-1 - inputs, outputs, relays, RS485

I/O characteristics:

- **Outputs:** 24 V, 150 mA output current, configurable as PNP, NPN or PUSH-PULL
- **Inputs:** opto-isolated, maximum voltage 24 V
- **Relays:** maximum switching voltage and current 0.3 A at 125 VAC / 1 A at 30 VDC

IO-2 (ProfiNET, ethernet)

Module provides two ProfiNET and two 1 Gbps ethernet connectors.



IO-2 - profinet + ethernet

Ordering

Example ordering number:

CV-1560B-N100P-256-001-W11

Breakdown:

CV — 1560B — N100P — 256 — 001 — W11

Product series name

Panel size	
1010	10.1" panel
1560	15.6" panel
1560B	15.6" panel Basic
2380	23.8" panel

CPU option	
N100P	Intel Processor N100 Passive Cooling
N100A	Intel Processor N100 Active Air Cooling
N305A	Intel Processor N305 Active Air Cooling

HDD size	
000	Not installed
256	256 GB
512	512 GB
01T	1 TB

IO module	
000	Without IO module
001	IO-1 DI, DO, Relays, RS485
002	IO-2 Profinet & Ethernet

Operating system	
W11	Windows 11 IoT
W10	Windows 10 IoT
LIM	Linux Mint
000	Not installed