

Vision 305 Product Family

Rugged operator interfaces for off-highway machines



Key benefits

- ✓ Compact 5.0" touchscreen display
- ✓ Excellent sunlight readability due to optical bonding and high brightness
- ✓ CAN, ISOBUS, USB and Ethernet interfaces
- ✓ Integrated loudspeaker
- ✓ Analog camera and audio-out interfaces

The Vision 305 family is a compact and easy-to-use family of rugged five-inch touchscreen displays. The aluminum rear housing and the front glass are sealed. The devices can withstand extreme temperatures, as well as shocks and vibrations, and are suitable for operation under harsh conditions in agriculture, construction, material handling and other mobile machinery applications. The continuing trends towards higher bandwidth and performance are met by state-of-the-art CPU computing power as well as USB and Ethernet interfaces.

Built for harsh environments

The displays are designed to withstand both dust and water ingress and meet IP66 rating. The easy-to-clean touchscreens can be operated with work gloves, if needed. The Vision 305 family has an operating temperature range of -30°C to +75°C and can be used for various applications and in extreme environments.

Performance and bandwidth

Vision 305 displays provide a powerful i.MX6 processor for intuitive visualization of vehicle

parameters. For demanding applications, 100BASE-TX Ethernet is available in addition to the ISOBUS-compliant CAN interface.

Flexibility in design and mounting

With its compact design, the display fits perfectly into modern operator workplaces, either mounted in cockpit dashboards (panel mounting) or by an arm elsewhere in the cabin. In addition, the display can be installed in portrait or landscape mode.



Application Fields

- Construction
- Agriculture
- Municipal

Vision 305 family

	Vision 305s (standard and as virtual terminal)	Vision 305e
System CPU	NXP i.MX6 application processor, 32-bit ARM, 800 MHz, single core	
Memory	2 GB Flash, 512 MB RAM	4 GB Flash, 512 MB RAM
Programming	Programmable with CODESYS® V3 or C/C++	
Communication interfaces	2 x CAN, 10 kbit/s up to 1 Mbit/s (1 x ISOBUS compliant on Vision 305s virtual terminal variant) 1 x USB 2.0 (type A) T15 for ignition input RGB Status LED 1 x RS-232 1 x integrated loudspeaker	2 x CAN, 10 kbit/s up to 1 Mbit/s 1 x 100BASE-TX (standard Ethernet) 2 x USB 2.0 (Type A) T15 for ignition input RGB Status LED 1 x RS-232 1 x integrated loudspeaker 1 x audio (line out R/L)
Cameras		1 x video input for external composite video cameras
Display	5.0" 15:9 aspect ratio 800 (W) x 480 (H) pixel Projective capacitive touchscreen 800 cd/m ² type 700:1 contrast	
Sensor and Actuation	Ambient light sensor	
Housing	IP66 front and back	
Mounting	Arm or panel mount Landscape or portrait orientation	



TTControl Italy, Brixen
Phone: +39 0472 26 80-11

TTControl Austria, Vienna
Phone: +43 1 585 34 34-0

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products@ttcontrol.com www.ttcontrol.com