



Vision307 is a **robust 7.0" touchscreen display** with built-in, high-end Vision 3 display controller and solid protection for use in **off-highway vehicles**. Beside various communication interfaces the display is ready for **direct connection of cameras** and enables audio output via integrated loudspeaker.

The display is optically bonded for perfect sunlight readability, the housing is sealed, and the device withstands **extreme temperature, shocks** and **vibrations**.

SPECIFICATIONS

DIAGONAL SIZE	7.0" 15:9 aspect ratio
DIMENSIONS	194 mm x 136 mm x 40 mm (46 mm incl. connector)
WEIGHT	0.9 kg
RESOLUTION	800 (W) x 480 (H) pixel
LCD TYPE	TFT (thin film transistor) active matrix
BACKLIGHT	LED

OPTICAL CHARACTERISTICS

LUMINANCE	800 cd /m ² typ.
VIEWING ANGLE	V = ± 80° H = ± 80°
CONTRAST RATIO	1000:1

MAXIMUM RATINGS

OPERATING TEMPERATURE	-30 to +70 °C (ambient)
STORAGE TEMPERATURE	-30 to +80 °C
SUPPLY VOLTAGE	8 to 32V

STANDARDS

CE-MARK	2014/30/EU
E-MARK	ECE 10R-05
EMC	ISO 13766 EN 13309 ISO 7637-3
ESD	ISO 13766 ISO 10605
ELECTRICAL	ISO 16750-2
INGRESS PROTECTION	EN 60529 IP65 ISO 20653 IP6k5
CLIMATIC	ISO 16750-4
MECHANICAL	ISO 16750-3

CHARACTERISTICS

+ SYSTEM COMPONENTS:

NXP i.MX6 application processor, 32bit ARM, 800 MHz, single core
4 GB eMMC Flash, 512 MB RAM
RTC buffered by supercapacitor
Display backlight auto-dimmable via ambient light sensor
Internal temperature sensors for ambient and CPU temperature
Panel or cabin mount, landscape or portrait orientation
Projective capacitive touchscreen
Optically bonded

+ INTERFACES:

2 x video input for external composite video cameras
2 x CAN, 25 kbit/s up to 1 Mbit/s
1 x 100Base-TX
1 x USB 2.0 OTG
Terminal 15 for ignition input
RGB status LED
1 x RS-232
1 x integrated loudspeaker

+ SOFTWARE:

Programmable in CODESYS® V3 with Standard Visu, including support for CANopen® master or C/C++
Display of videos, .pdf-files and animations
Picture-in-picture functionality
Sleep mode - wake-up to full operation within less than half a second. Configurable wake-up sources: touchscreen, wake-up input, RTC and CAN interfaces

Reverse polarity protection and protection of all external interfaces (except USB) against short circuit to GND and BAT+.

BLOCK DIAGRAM

