

MCD Mobile Colour Display with touch screen technology



MCD [Mobile Colour Display] offers an exceedingly tough user interface, which is particularly suited for monitoring and operating mobile machines.

The operational data of a machine and the output of the cameras can be visualized easily - in a company specific design, appropriate to special machines and situations.

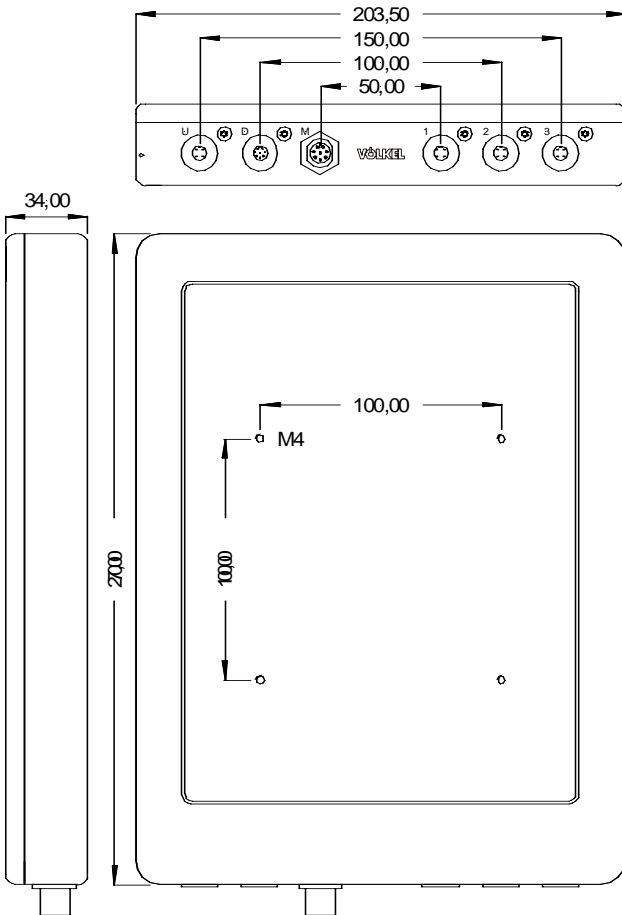
The operation by touch, without fixed keys, increases the display's design options. The individual screen is available in a similar application case via USB connectable flash memory.

In order to communicate with the controllers and sensors of the machine, MCD has a CAN interface, all CAN based protocols can be used.

The 10.4 inch colour display offers connections for three colour cameras and an acoustic signal transducer.

MCD example of use: earth work, compaction measurement

MCD housing dimensions



MCD pin assignment

The outward contacting is made by circular plug-in connectors

Equipment socket U	USB host (USB stick)
Equipment socket D	USB device (Debug interface for the PC)
Device plug M	Power supply, CAN interface, RS232 interface, activation input
Equipment socket 1	Camera 1
Equipment socket 2	Camera 2
Equipment socket	Camera 3

MCD technical data

Dimensions	203.5mm x 270mm x 34mm (W/H/D)
Housing	Anodised aluminium and antireflective glass
Weight	1.8kg
Display	480 x 640 pixels with 65536 colours, 10.4 inch TFT, Dimmable LED, Background lighting Maximum brightness: 550cd/m ² Maximum contrast: 600:1 Visual angle: vertically 140°, Visual angle: horizontal 110°
Operation	Touch screen: capacitive, projective
Assembly	VESA standard 100mm x 100mm, M4
Power supply	UB = 8 ... 32V
Current consumption	Ca. 900mA at 12V (without external periphery), standby max. 0.5mA
Micro-controller	ARM926EJ-S, 200MHz
Program memory	256MByte flash
Data memory	256MByte RAM
Recording memory	4GByte flash
Time recording	Real-time clock, battery backed
Interfaces	1 x CAN 2.0B, 1 x RS232, 1 x USB host, 1x USB device
Inputs	1 Activation input for the remote control of switching on and off 3 Camera inputs (composit video signal) with 12V output
Outputs	1 Internal acoustic signal transducer
Protection	Category IP 65, reverse pole protection, overvoltage protection of UB
Ambient temperature	-30 ... 70°C
EMV	Industrial application: EN 50081-2 and EN 50082-2 Road vehicles: DIN 40839 and Directive 72/245/EWG, version 95/54/EG Agricultural and forestry vehicles: Directive 75/322/EWG, version 2001/3/EG

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