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Datasheet

Distec

POS-RP-156-00-PRO

15.6" Monitor with Artista IoT

MO-06-001



Version 0.7

13.01.2021

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1 Revision History

Date	Rev.No.	Description	Page
10.12.2019	0.1	Preliminary Version	All
20.03.2020	0.2	Updated picture	2
24.03.2020	0.3	Updated Typical Power Consumption from "17" to "14"	6
08.07.2020	0.4	Operating temperature changed from 0°C - +50°C to -20°C - +70°C , updated last page	6, 11
16.11.2020	0.5	Operating temperature changed from -20°C - +70°C to -20°C - +50°C	6
10.12.2020	0.6	Revised description, order of characteristics and new cover/last page	5, 6

2 Description

Distec's 15.6" POS-RP-156-00-PRO is a CE certified/IP65 proof front monitor solution, featuring the Raspberry Pi CM3+ based TFT platform Artista-IoT. Therefore, it is the perfect solution for Industry 4.0 and Internet of Things projects.

Its robust but slim cover offers all options for integration and various applications. The POS-RP-156-00-PRO is equipped with an industrial high-brightness display and is designed for long term availability.

The POS-RP Series features:

- an integrated 10 finger PCAP touchscreen
- an ambient light sensor for automatic brightness adjustment to ambient light conditions
- integrated passive cooling, which allows operating the system under full load even at high ambient temperatures
- VESA Mounting holes for using it as an HMI, mounted on a swivel arm or monitor stand
- As Option: in-wall mounting frame for a variety of integrations in concrete, wooden, or drywall constructions

Artista-IoT offers all advantages of a modern ARM processor platform:

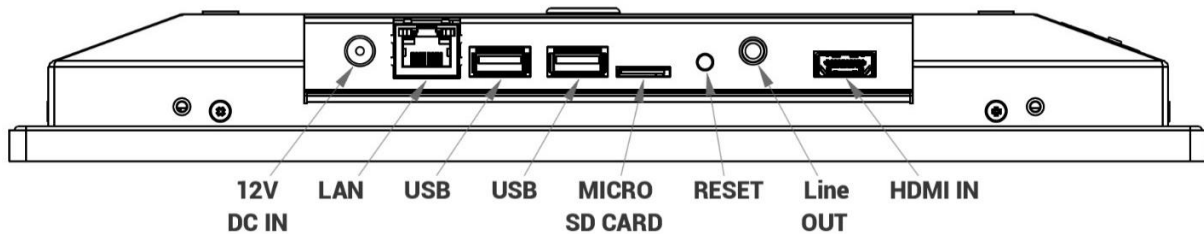
- driven by single 12V power supply (24V in development)
- in comparison to RaspberryPi standard industrial functions like Real-Time-Clock and others
- Basis configuration: CM3+/8GB (optional 16GB or 32GB)
- Standard configuration: Raspian
- LAN, HDMI-IN 1.4, 2xUSB as front interfaces, Micro-SD card reader
- An OSD keypad for full access to OSD menu board (→ [PrismaMedia-Eco Datasheet](#))
- As Option: Wireless - or Bluetooth adapters to be connected via LAN or USB
- As Option: supply as VideoPoster network video player (→ [VideoPoster IV Manual](#))

Users are able to program their own applications on a Raspberry Pi basis or using all operating systems and application programs, which are supplied and supported by the large community.

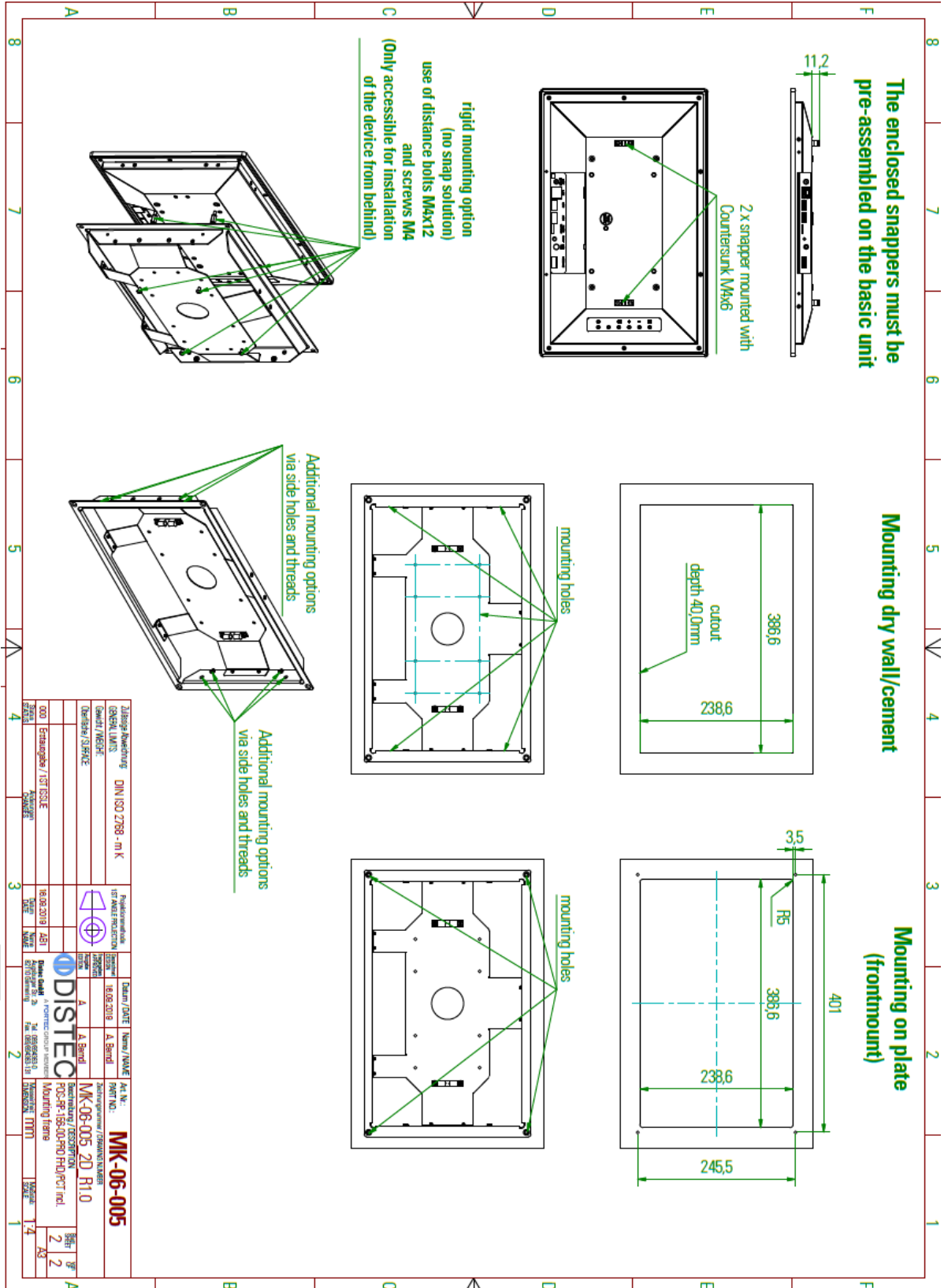
3 Characteristics

Items	Unit	Specification
Screen Diagonal	[inch]	15.6
Pixels H x V		1920 x 1080
Supported Colors		16.7M (8bit color)
Brightness	[cd/m ²]	320
Viewing Angle	v/h	88/88/88/88
Nominal Input Voltage	[V]	12
Typical Power Consumption	[W]	14
Electrical Interface		12V, USB, Audio, SD Card, Ethernet RJ45, HDMI
PCAP Touchscreen Touchpoints	finger	10
Storage Temperature	[°C]	-20 to +70
Operating Temperature Range	[°C]	-20 to +50
IP rating		Front IP65
Physical Size H x V x D	[mm]	417 x 261.5 x 33.7
Active Area H x V	[mm]	344.16 x 193.59
Weight	[kg]	3

3.1 Interfaces



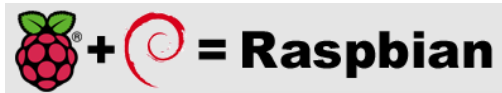
5.1.1 Mounting instruction



6 Software for the POS-RP-PRO Series

6.1 Operating systems

6.1.1 Raspbian O/S



Raspbian is a free operating system based on Debian optimized for the Raspberry Pi hardware.

6.1.2 Emteria O/S



Emteria is an O/S based on industrial Android 7.x, providing a simplified development process.

6.1.3 Yocto Linux



The Yocto Project provides tools and processes that enable the creation of Linux distributions for embedded and IoT software.

6.2 Application Software

6.2.1 Info Beamer



[Info Beamer](#) is capable of displaying any kind of information since it is fully programmable e.g. for synchronized content and full HD video playback.

6.2.2 VideoPoster-IV



[VideoPoster](#) is a full HD capable network player. MPEG media files are played from an SD card. Videos are transferred via USB or Ethernet.

Preliminary

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