



OUR GLOBAL
COMPETENCE
CENTRES

 APOLLO DISPLAY
TECHNOLOGIES



 DISTEC



 DISPLAY
TECHNOLOGY



Datasheet

Distec

IoT-CP-P270HVN01.0-00

27" IoT Compact Panel

DI-06-007

Version 1.2

14.01.2021

Table of Contents

1	Revision History	4
2	Description	5
3	Characteristics	6
3.1	Further Specifications	6
3.1.1	TFT-Display	6
3.1.2	TFT Controller	6
4	Mechanical Drawing	7
5	Optional Accessories	8
6	Software for the IoT Compact Panels	8
6.1	Operating systems.....	8
6.1.1	Raspbian O/S.....	8
6.1.2	Emteria O/S.....	8
6.2	Application Software	9
6.2.1	Info Beamer.....	9
6.2.2	VideoPoster-IV	9

1 Revision History

Date	Rev.No.	Description	Page
04.06.2018	1.0	Initial release	All
08.03.2019	1.1	Coverpage added, Links updated	All
14.01.2021	1.2	Revised description, order of characteristics and new cover/last page	5, 6

2 Description

Distec's 27" IoT-CP-P270HVN01.0-00 IoT Compact Panel is an open frame design TFT display solution, featuring the Raspberry Pi CM3+ based TFT Artista-IoT. Therefore, it is the perfect solution for Industry 4.0 and Internet of Things projects. Its modular based construction allows an easy integration into customer's applications.

Its robust but slim cover offers all options for integration and various applications. The IoT Compact Panels are equipped with an industrial high-brightness display and are designed for long term availability.

The Compact Panel Series features:

- protection by a 1.1mm hardened front glass with black passe-partout
- SFT technology for wide viewings angles and readability
- Versatility for usage in different applications such as gaming, amusement, industry and stand-alone GUI (Graphic User Interface)

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 4.1, 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]\[mm]	27.0 / 685.80
Pixels H x V		1920(RGB) x 1080HD
Supported Colors		16.7M (8bit)
Brightness	[cd/m ²]	350
Viewing Angle	v/h	178°/178°
Nominal Input Voltage	[V]	12
Typical Power Consumption	[W]	26
Electrical Interface		100Mbit Ethernet, USB, GPIO, I ² C, UART, HDMI, 12V power, Micro SD, Audio Line Out, GPIO
Storage Temperature	[°C]	-20 to +60
Operating Temperature Range	[°C]	0 to + 50
Physical Size H x V x D	[mm]	613.6 x 356.9 x 35.0
Active Area H x V	[mm]	597.6 x 336.15
Weight	[kg]	2.7

3.1 Further Specifications

3.1.1 TFT-Display

[P270HVN01.0 Datasheet](#) 

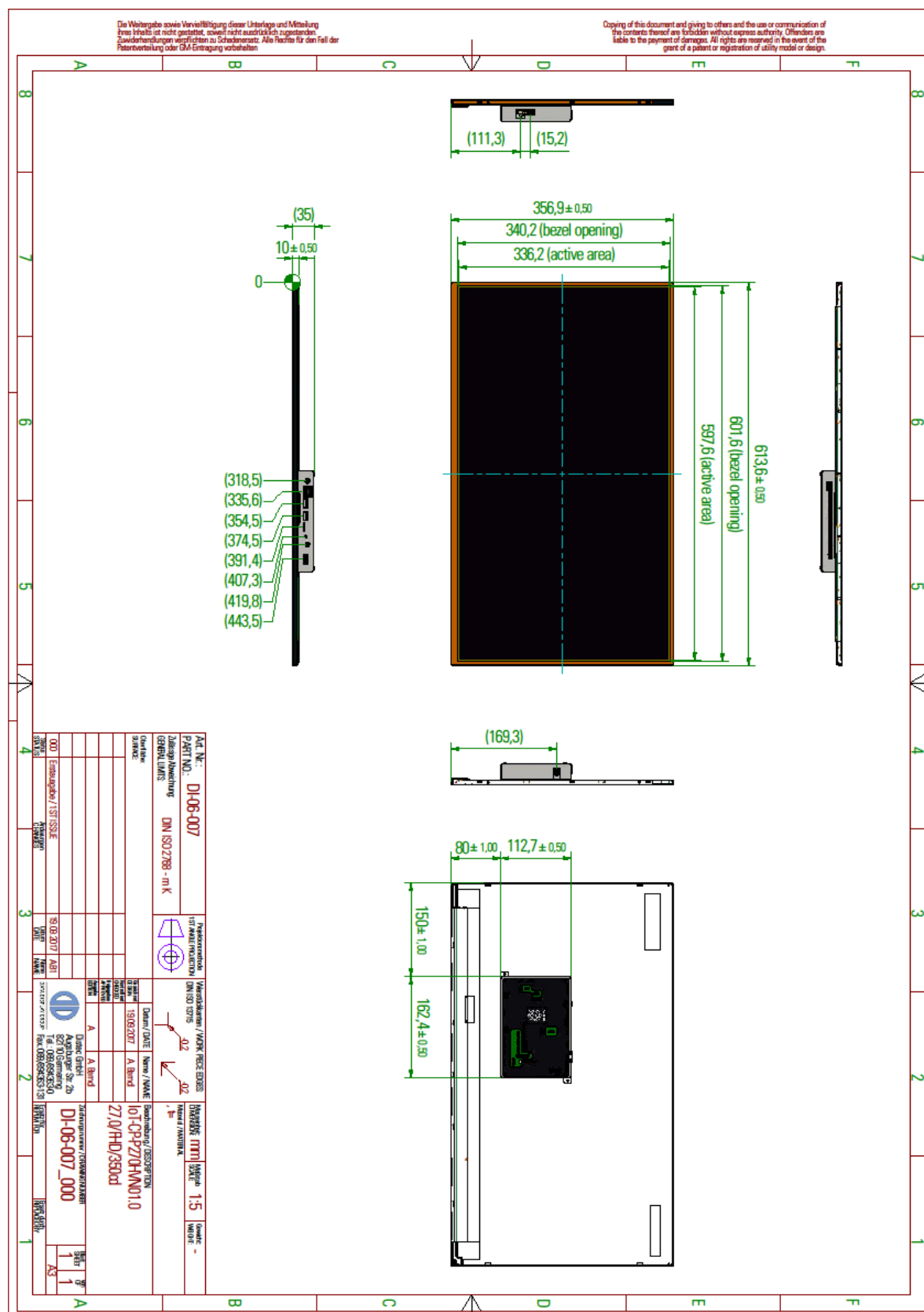
3.1.2 TFT Controller



[Distec Artista-Media III Datasheet](#) 

[Raspberry Pi Compute Module 3 \(CM3\) Datasheet](#) 

4 Mechanical Drawing



5 Optional Accessories

We offer various accessories for the Artista-IoT e.g. cables, sensors, remote control etc. Please refer to the following pdf for the latest accessories overview:

[Artista-IoT Accessories](#) 

6 Software for the IoT Compact Panels

There is a wide range of software available for the IoT Compact Panels. Please click on the logos to visit the websites for more information:



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.

6.2 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.

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

Headquarters

Germany



FORTEC Elektronik AG

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894450-0
E-Mail: info@fortecag.de
Internet: www.fortecag.de

Fortec Group Members

Austria



Distec GmbH Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: info@distec.de
Internet: www.distec.de

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: www.altrac.ch

United Kingdom



Display Technology Ltd.

Osprey House, 1 Osprey Court
Hichingbrooke Business Park
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600
E-Mail: info@displaytechnology.co.uk
Internet: www.displaytechnology.co.uk

USA



Apollo Display Technologies, Corp.

87 Raynor Avenue,
Unit 1 Ronkonkoma,
NY 11779

Phone: +1 631 5804360
E-Mail: info@apolloDisplays.com
Internet: www.apolloDisplays.com