\Orchestrating a brighter world NEC

MultiSync® PA311D
LCD 31” Professional Display

Datasheet





Uncompromising performance for highly demanding workflows

Where detail and precise visualisation is application-critical, the extensive 31” screen estate with true 4K resolution provides an outstanding canvas for viewing of vast content in highly demanding workplaces. Appealing for post-production workflows, the 4096 x 2160 resolution supports the processing of original footage without downscaling to UHD resolutions. With a High Dynamic Range, images appear sharper, more natural and true-to-life.

Supporting your creative output, the 31.5’’ panel, 14 bit gamma 3D look up table, SpectraView® Engine, integrated calibration sensor and support for an external sensor ensure superior colour reproduction and management processes. The USB Type C delivers 65W to charge power hungry notebooks and mobile devices directly from the display whilst delivering 4K signal in DP Alt mode with one single cable connection.

Demanding users in the creative industry from architects to media producers and C&C operators will appreciate the advanced innovation and outstanding ergonomics of the PA311D.

Benefits

Ambient Light Sensor – with Auto Brightness function always sets optimised brightness level according to ambient light and content conditions.

Stunning "pixel-free" ergonomic viewing – delivered by a true 4K (4096 x 2160) Professional LED backlit 10-bit IPS type LCD panel with IGZO technology.

Reliable colour reproduction – due to 10-bit colour performance, wide gamut covering 99 % of AdobeRGB, and hardware calibratable 14-bit LUT for accurate image presentation.

Uncompromising Image Quality – full colour control thanks to 10-bit IPS, Digital Uniformity Control, 14-bit hardware LUT, SpectraView Engine performance and SpectraView II calibration control.

Advanced Picture by Picture – simultaneously show up to 4 different video inputs.

Product Information

Product Name	MultiSync® PA311D
Product Group	LCD 31" Professional Display
Order Code	60004941

Display

Panel Technology	IPS TFT with W-LED backlight
Screen Size [inch/cm]	31 / 80
Screen Aspect Ratio	17:9
Pixel Pitch [mm]	0.1704
Brightness (typ.) [cd/m²]	350
Contrast Ratio (typ.)	1500:1
Response Time (typ.) [ms]	8
Colours [Billion]	1.074 (10-bit per colour)

Synchronisation Rate

Horizontal Frequency [kHz]	15 - 130
Vertical Frequency [Hz]	24 - 85

Resolution

Optimum Resolution	4096 x 2160 at 60 Hz			
Supported	3840 x 2160 (24/25/30/60 Hz); 3480 x 2160; 2560 x 1600;	2560 x 1440; 1920 x 1080 (50/60 Hz); 1600 x 1200;	1440 x 900; 1280 x 1024; 1024 x 768 (60/70/75 Hz);	800 x 600; 720 x 400; 640 x 480

Connectivity

Digital	1 x DisplayPort; 1 x USB Type C (65 W); 2 x HDMI 2.0; USB ver. 3.1 (3 down / 3 up)
Output Control	1x LAN/RJ45

Electrical

Power Consumption on Mode [W]	187 (max.); 84 (typ.)
Power Savings Mode [W]	10
Power Supply	1 A/2.4 A; 100-120 V/220-240 V; internal power supply
Power Savings Mode [W]	< 2 (Networked Standby)

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 85
Storage Humidity [%]	10 to 85
Storage Temperature [°C]	-20 to 50

Ergonomics

Height adjustable stand [mm]	150
Screen Tilt [°]	-5 to +30
Screen Swivel [°]	-45 to +45

Mechanical

Bezel Width [mm]	19.3 (left and right); 22.1 (top and bottom)

Dimensions (W x H x D) [mm]	737.9 x 433.2 - 583.2 x 301.6 (Landscape mode)
Weight [kg]	With stand: 14.9; Without stand: 8.6
VESA Mounting [mm]	100 x 100; 100 x 200

Additional Features

Special Characteristics	Ambient light sensor for optimized brightness levels; Auto Black Level; Auto Brightness; Backlight Sensor; Carbon Footprint Meter; Carbon Savings Meter; Cost Meter; DICOM Simulation; Digital Uniformity Control (ColorComp); DisplayPort; ErgoDesign®: Height adjustable stand (150 mm), swivel (45°), and portrait (90°); GammaComp (14-bit Look Up Table and 16-bit processing); LED Backlight Technology; NaViSet Administrator 2; Picture-in-Picture Mode; PiP/PbP; Programmable 3D LUT; Quick release Stand and Handle; RapidMotion; Self Diagnostics; TORO™ Design; USB ver. 3.0 (3 down / 2 up); Versatile installation (VESA standard), with integrated speakers (2+2 W)
Colour Versions	Black Front Bezel, Black Back Cabinet
Cable Management	yes
Kensington security slot	yes
Plug and Play	DDC2B/2Bi; EDID Standard; VESA DDC/CI
Audio	Headphone Jack; Integrated Speakers (1 W + 1 W)
Adjust Functions	Auto Adjust; Brightness; Colour Temperature Control; Language Select; Monitor Information; On-Screen-Display (OSD) lock-out; Volume
Shipping Content	DisplayPort cable; DisplayPort to Mini DisplayPort cable; Monitor; Power Cable; USB Cable Signal Cable: DisplayPort; Mini DisplayPort
Safety and Ergonomics	CE; EAC; ErP; Flicker-free; ISO 9241-307 (pixel failure class I); Low Blue Light; PSB; RoHS; TÜV GS; WEEE
Warranty	3 years warranty incl. backlight
Optional Accessories	MDSVSENSOR 3

Green Features

Energy Efficiency	Ambient light sensor; Auto brightness; Energy efficiency class: D; Human sensor; LED backlight technology
Ecological Standards	ErP compliant; RoHS compliant; WEEE

CE ErP RoHS TÜV GS

This document is © 2020 NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 03.01.2020