MDP-843

43" 4K2K main display

Air traffic controllers prefer the comfort of a single screen for their day-to-day work. Yet, as the amount of information and number of tools they oversee is continually growing, they need more display space.

To cater to that need, organizations can opt for a single-screen working position or use multiple screens, combining ScioTeq's 2Kx2K MDP-471 with ADP 361 support screens.

When a single screen is the best option, the MDP-843 main display is the best fit. Meeting the concerns of all stakeholders (ATC controllers, technical operators, etc.), the MDP-843 integrates an 4K2K LCD module into a display fit for use in ATC environments.

The result: a large, high-resolution display with outstanding optimal performance - to ensure the brightest view.

Key features:

- 4Kx2K resolution
- Dynamic brightness range from 5-350 cd/m^2
- Real time continuous brightness stabilization (BLOS)
- MultiWindow mode allows multiple configureable layouts, allowing video composition of multiple inputs
- Highly appreciated uniformity in white and gray scales provides less eye strain
- Dual redundant power supplies for maximum up time
- Smallest bezel and mechanical profile for better console integration

Product specification

Native resolution	3840 x 2160 pixels
Pixel pitch	0.2451 x 0.2451 mm
Active screen area	941.2 x 529.458 mm (37.06 x 20.84 ")
Active screen diagonal	42.5" (108.0 cm)
Pixel arrangement	RGB vertical stripe, IPS technology
Backlight	Edge LED backlight system
LED lifetime	> 100,000 hours estimated
Brightness max	Typical 350 cd/m^2
Brightness stabilization	150 cd/m^2 over lifetime
Dimming ratio	200:1
Contrast ratio	Typical 1000:1 - ratio of white/black image
Display colors	10-bit, 1.06 billion colors
Color temperature	Adjustable between native, D65, RGB tuning and custom matrix
Viewing angle	Superwide viewing angle performance - 178° typical, with CR ≥ 10
Display uniformity	White brightness uniformity 70% (min) Gray (64/255) uniformity 60% (min)
Front surface	Front polarizer: Anti-Glare, hardness: 2H Reflection: <2%
Response time	Tr (gray to gray): 8 ms, typical
Video inputs	1 x DVI-I (analog on DVI connector) 2 x Display Port 1.2a 2 x HDMI 1.4
Video composition	MultiWindow mode allows up to 12 user-defineable layouts. Each layout can display up to 4 video inputs simultaneously, in a user-defined composition.
USB ports/function	4 - USB-A downstream port (USB control box, service port, internal USB HUB) 2 - USB-B upstream port (remote control)
Audio	The audio signal from the currently selected video input (HDMI or DP) is available on the audio output & speakers
Ethernet	1 x port, 10/100 compliant, SNMP, webpage
Noise	Not applicable - passive cooling only
Power supply	Nominal voltage: 110 Vac & 230 Vac Operates between: 90-264 Vac Internal dual redundant power supply - connector type: IEC (2 pcs) Frequency range: 47-63 Hz
Power consumption	Pnom typ 65 watt (150 cd/m²) Pmax 90 watt
Chassis ground	M4 earth stud
Dimensions & weight	H 580.75 X W 975 x D 102.7 mm - Weight: ~18 kg Bezel width: bottom 34.7 & top 15.05; 15.9 left & right
Mounting	VESA 400x400 x M8 - VESA 400x200 x M6 VESA 100x200 x M4 - VESA 100x100 x M4 Easy click mounting for MDP-series
EMI/EMC	EU/IEC/Canada/FCC: limit B
Safety	IEC60950-1, EN60950-1, UL60950-1, cUL60950-1, CCC, KCC
Temperature	Operating: 0° C to 40° C (32° F to 104° F) Storage: -20° C to 60° C (-4° F to 140° F)
Humidity	90% at 40° C non-condensing atmosphere (operational and non-operational)
Part number	MDP-843 (partnr: K9334551)
Support services	Standard 3-year warranty - Extended warranty services possible Maintenance training

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