

MDP-843 Plus

43" 4Kx2K main display with enhanced optical performance

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.



The MDP-843 is already well accepted as a reliable single-screen ATC working position in ATC centers worldwide.

Now, ScioTeq introduces the MDP-843 Plus, with a huge improvement on the most important aspects: the optical viewing characteristics. ScioTeq has applied its 20-year field-proven expertise in ATC main displays.

Using a combination of optically bonded glass, foils, anti-glare filters and anti-reflective coatings combined with standard COTS LCD technology, ScioTeq created a performance enhanced ATC-grade display with better viewing angles, higher contrast ratios and zero color shift in off angle viewing.

For the first time, ScioTeq brings the 43 inch ATC main display performance in line with the standard 28 inch reference main display, the MDP-471/4, being used by the majority of ANSP air traffic controllers worldwide.

Key features:

- 4Kx2K resolution
- Performance enhanced ATC-grade LCD, providing better viewing angle and higher contrast, and zero color shift
- Optically bonded anti-glare and anti-reflective front glass, for lowest possible reflection
- Dynamic brightness range 5-700 cd/m²
- Real time brightness stabilization (BLOS)
- MultiWindow mode allows multiple configurable 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
Protective front glass	Chemically strengthened, optically bonded, anti-glare, anti-reflective and anti-fingerprint front glass Total reflection: <1.5%
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 > 700 cd/m ²
Brightness stabilization	500 cd/m ² over lifetime
Dimming ratio	200:1
Contrast ratio	Typical 1300:1 - ratio of white/black image
Display colors	10-bit per color, 1.07 billion colors
Color temperature	Adjustable between native, D65, RGB tuning and custom matrix
Viewing angle	Exceptional viewing angle performance: +/- 89° with CR > 10 +/- 60° with CR > 400 Absolutely minimal color shift over viewing angle
Display uniformity	White brightness uniformity 70% (min) Gray (64/255) uniformity 60% (min)
Front surface	Chemically strengthened, anti-glare and anti-reflective protective front glass Reflection: <1.5%
Response time	Tr (gray to gray): 8 ms, typical
Video inputs	1 x DVI-D dual link 2 x Display Port 1.4 2 x HDMI 2.0b
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	750 cd/m ² : 110 watt 150 cd/m ² : 65 watt Low power standby: <0.5 watt
Chassis ground	M4 earth stud
Dimensions	H 580.75 X W 975 x D 102.7 mm 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	IEC62368-1, EN62368-1, UL62368-1, cUL62368-1
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 Plus (partnr: K9334555)
Support services	Standard 5 years warranty - Extended warranty services Maintenance training
Accessories	Desktop stand main display series (partnr: K93020681A) USB control box (partnr: K5030141) - USB cable 3m (partnr: B5580244) Vesa Interface plate (partnr: K6062426) - Maintenance training

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The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.

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