

MDPC-8127

27" 8MP, ultra-high definition display, cleared for digital pathology



- **Visual richness and color confidence**
- **Panning and zooming with minimal blurring**
- **Stable image quality & automated calibration**

Meet MDPC-8127, our ultra-high definition medical grade display designed exclusively for digital pathology. With regulatory clearances as an IVD device (Europe and FDA) for use in digital pathology including primary diagnosis, it's the first display that you can confidently integrate into your digital pathology workflow with multiple whole slide imaging systems.* Work with superior imaging technology and analyze your histological samples confidently, with unprecedented visual richness. The MDPC-8127 comes with the Barco high-precision touchpad.

*In the USA the MDPC-8127 can be used with WSI scanners and viewing software that have been validated for use with the display. The device may be used for primary diagnosis in the following validated FDA-cleared WSI systems and digital pathology viewing software:

Barco's MDPC-8127 510(k) clearance:

- Philips Intellisite Pathology Solution with Philips Image Management System viewing software, cleared under K192259
- Philips Intellisite Pathology Solution with Paige.AI Inc. FullFocus DX viewing software, cleared under K201005
- Leica Aperio AT2 DX System with ImageScope DX viewing software, cleared under K190332
- Leica Aperio AT2 DX scanner with Sectra Digital Pathology



- Leica Aperio AT2 DX scanner with Sectra Digital Pathology Module, cleared under K193054

FDA-Cleared WSI systems and Digital Pathology Viewing Software with MDPC-8127:

- Hamamatsu NanoZoomer S360MD slide scanner system, cleared under K233027
- Leica Aperio GT 450 DX scanner with Aperio WebViewer DX, cleared under K232202
- Philips Intellisite Pathology Solution with JelloX MetaLite Dx Digital Pathology Software, cleared under K240303
- Philips IntelliSite Pathology Solution with Philips Image Management System and Galen™ Second Read™ AI, cleared under K241232
- EpreDia E1000 Dx scanner with E1000 Dx IMS, cleared under K241717
- Hamamatsu NanoZoomer S360MD scanner with Lumea Viewer+, cleared under K242244
- Hamamatsu NanoZoomer S360MD scanner with PathPresenter Clinical Viewer, cleared under K250968
- PathAI AISight Dx viewer with Leica GT450 DX or Hamamatsu NanoZoomer S360MD, cleared under K243391
- Indica Labs HALO AP Dx with Leica GT450 DX or Hamamatsu NanoZoomer S360MD, cleared under K252762
- Infinitt DPS viewer with Hamamatsu NanoZoomer S360MD, cleared with K243449

MDPC-8127 Validation protocol:

- Leica Aperio GT 450 DX scanner with Sectra Digital Pathology Module (3.3)
- Roche Ventana DP200 scanner with Roche uPath Enterprise Software
- Hamamatsu NanoZoomer S360MD Slide scanner with Proscia Concentriq® AP-Dx Digital Pathology software

Ecolabel for MDPC-8127

The MDPC-8127 has been subjected to Barco's ecoscoring protocol. Some key factors that contributed to this rating are:

- High energy efficiency
- Possibility to switch to standby mode when device is not in use
- Use of halogen-free materials on all levels: cables, PCBs, plastics
- Number of screws and screw types is reduced significantly to improve ease of disassembly
- Unpainted large plastic parts

Product specifications**MDPC-8127****General Specifications**

Screen technology	IPS LCD with LED backlight
Active screen size (diagonal)	684 mm (27")
Active screen size (H x V)	569 x 335 mm (22.4 x 13.2")
Aspect ratio (H:V)	16:9
Resolution	8MP (3840 x 2160 pixels @ 120 Hz)
Pixel pitch	0.155 mm
Color imaging	Yes
Gray imaging	Yes
Bit depth	10 bit (1.07 billion possible colors)
Viewing angle (H, V)	178°
Uniformity correction	PPU
SteadyColor	Yes, with QAWeb Enterprise
Color gamut NTSC	115% (typical)
Color gamut sRGB	132% (typical)
Color gamut DCI-P3	105% (typical)
sRGB Delta E2000 (typical)	< 1 (average) < 3 (maximum)
Ambient light presets	Yes, reading room selection
Ambient light sensor	Yes
Front sensor	Yes, I-Guard
Maximum luminance (panel typical)	850 cd/m ²
DICOM calibrated luminance	450 cd/m ²
Contrast ratio (panel typical)	1000:1
Response time ((Tr + Tf)/2) (typical)	8 ms
Housing color	Black / White
Video input signals	2x DisplayPort 1.2
USB ports	1x USB 2.0 upstream (endpoint) 2x USB 2.0 downstream
Power rating	100-240 Vac, 50/60 Hz, 3.6-1.6 A
Power consumption	75 W (nominal) @ calibrated luminance of 450 cd/m ² < 0.5 W (hibernate) < 0.5 W (standby)
Dimensions with stand (W x H x D)	651 x 482~582 x 238 mm
Dimensions w/o stand (W x H x D)	651 x 390 x 66 mm
Dimensions packaged (W x H x D)	800 x 650 x 295 mm
Net weight with stand	12.5 kg
Net weight w/o stand	7.9 kg
Net weight packaged	17.4 kg (without optional accessories)
Tilt	-5° to +25°

Product specifications**MDPC-8127**

Swivel	-30° to +30°
Pivot	N/A
Height adjustment range	100 mm
Mounting standard	VESA (100 mm)
Recommended modalities	Digital Pathology and Whole Slide Imaging
Certifications	FDA 510(k) K203364 CE (In Vitro Diagnostic Medical Device) CCC (China) Safety specific: EC 60950-1:2005+A1:2009+A2:2013 EN 60950-1:2006+A1:2010+A11:2009+A12:2011+A2:2013 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IEC 60601-1:2005+A1:2012+A2:2020 EN 60601-1:2006+A1:2013+A12:2014+A2:2021 AAMI ES 60601-1:2005+A1:2012+A2:2021 CAN/CSA C22.2 No. 60601-1:2014 (Reaffirmed 2022) IEC 61010-1:2010+A1:2016 EN 61010-1:2010+A1:2019 (Ed. 3.1) UL 61010-1:2012+R1:2019+R2:2023 (Ed. 3.2) CAN/CSA C22.2 No. 61010-1:2012+A1:2018 (Ed 3.1) (Reaffirmed 2023) EMI specific: IEC 60601-1-2:2014+A1:2020 (Ed.4.1) EN 60601-1-2:2015+A1:2021 (Ed.4.1) IEC 61326-2-6:2020 (Ed. 3.0) EN IEC 61326-2-6:2021 FCC part 15 Class B ICES-001 Level B VCCI (Japan) RCM (Australia) Environmental: EU RoHS, China RoHS, REACH, Canada Health, WEEE, Packaging Directive
Supplied accessories	User guide Documentation disc Video cables Mains cables USB cable Touch pad
Optional accessories	MXRT display controller
QA software	QAWeb Enterprise
Warranty	5 years, including 20000 hrs backlight warranty
Operating temperature	0 °C to 35 °C (20 °C to 30 °C within specs)
Storage temperature	-20 °C to 60 °C
Operating humidity	8% to 80% (non-condensing)
Storage humidity	5% to 85% (non-condensing)
Operating pressure	50 kPa minimum
Storage pressure	50 to 106 kPa

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