MDDC-2424

diagnostic display built for dental specialists



- **24" diagnostic display for dental imaging**
- **Front sensor for consistent images**
- **Automated calibration & QA**
- **Built-in DIN 6868-157 compliance**
- **Certified medical device, built for dental clinics**

Dental diagnostic reading demands more than a general-purpose monitor can deliver. Reading a panoramic, a cephalometric series, an intraoral study, or a cone beam CT means catching the kind of subtle detail — a hairline root fracture, the earliest shadow of caries, a fine change in bone density — that a generic screen was never built to reveal. MDDC-2424 is designed specifically for that job: a display created so dental specialists and their practices can trust every image they read, in every room, every time.

Confidence in every detail

MDDC-2424 keeps subtle findings visible instead of lost in noise: early caries, periodontal ligament changes, hairline fractures, fine bone structure. The full study is shown in one clear view, without cropping or endless scrolling.

Quality that holds over time

Day-one quality that drifts isn't diagnostic quality. An integrated front-of-screen sensor and QAWeb-managed calibration keep brightness and contrast stable throughout the display's working life — predictable year after year, and uniform from one workstation to the next.

Made for the clinic, not the office

A certified medical device with a housing designed to be cleaned between patients, plus the connectivity and mounting flexibility a real dental workflow needs. It fits into clinical routine rather than complicating it.

Every dental specialty covered

MDDC-2424 supports the specialties that depend on precise imaging:



- Endodontics: gingival tissue, cortical and medullary bone, and root-end depth, with accurate grayscale reproduction.
- Prosthodontics: dependable 3D visualisation of edentulous sites for implant planning.
- Orthodontics: panoramic clarity for implants, impacted teeth, TMJ assessment and orthognathic planning.
- Periodontics: sensitivity to detect alveolar bone level changes and osseous defect architecture.
- Oral & maxillofacial surgery: the detail that reconstruction and extraction planning demand on CBCT.

Quality assurance and compliance, built in

QAWeb Enterprise, Barco's cloud-based QA platform, automates calibration and testing across every workstation — no local server, with audit-ready reporting and enterprise-grade data protection. QAWeb for DIN 6868-157 automates acceptance and consistency testing for both dental room classes the standard defines, with compact reports for straightforward record-keeping.

Product specifications — MDDC-2424

General Specifications

Screen technology	ADS
Active screen size (diagonal)	24"
Active screen size (H x V)	518.4 mm x 324 mm
Aspect ratio (H:V)	16:10
Resolution	2 MP (1920 x 1200 pixels @ 60 Hz)
Pixel pitch	0.27 mm
Color imaging	Yes
Gray imaging	Yes
Bit depth	8 bit per R, G, B
Viewing angle (H, V)	178°
Color Calibration(sRGB)	Yes
Color Gamut	Refer to panel specification
Front sensor (FLOS)	Yes
Maximum luminance (panel typical)	600 cd/m²
DICOM calibrated luminance	350 cd/m²
Contrast ratio (panel typical)	1000:1
Response time ((Tr + Tf)/2) (typical)	14 ms
Housing color	RAL 9003
Video input signals	1x DisplayPort 1x DVI-D 1x DVI-A 1x HDMI
USB ports	1x USB 2.0 Type-B upstream 2x USB 2.0 Type-A downstream
Power rating	12 Vdc, 5A
Power consumption	< 28 W < 0.3 W (hibernate) < 0.3 W (switched off)
Dimensions with stand (W x H x D)	Portrait: 383 x 577.1~629.1 x 201.3 mm Landscape: 568 x 420.6~530.6 x 201.3 mm
Dimensions w/o stand (W x H x D)	568 x 383 x 67.3 mm
Dimensions packaged (W x H x D)	681 x 512 x 198 mm
Net weight with stand	6.8 kg
Net weight without stand	4.6 kg
Net weight packaged	11.2 kg
Tilt	-5° to +22°
Pivot	90°
Height adjustment range	110 mm
Mounting standard	VESA (100 mm)
Screen Protection	All digital images, except digital mammography.
Certifications	CE 0123 (Medical Device) Safety specific: IEC 60601-1:2005 + AMD1:2012+ AMD2:2020 EN 60601-1:2006 + A1:2013 + A12:2014 IEC 62368-1:2018 EN 62368-1:2020 + A11:2020 IEC 60601-1-6:2010 + AMD1:2013 + AMD2:2020 EMC specific: IEC 60601-1-2:2014 + A1:2020 EN 60601-1-2:2015 + A1:2021 Environmental: EU RoHS, REACH, WEEE, Packaging Directive
Supplied accessories	1x DisplayPort video cable 1x USB cable 1x Printed user guide (in English, other languages can be found on the documentation disc) 1x Documentation disc 1x System sheet Mains cable Cable cover Cable clamp External power supply
QA software	QAWeb Enterprise, QAWeb for DIN
Warranty	5 years
Operating temperature	0°C to +40 °C
Storage temperature	-20 °C to +60 °C
Operating humidity	20 % to 80 % (non-condensing)
Storage humidity	10% to 80 %
Minimum operating pressure	70 kPa
Storage pressure	50 to 106 kPa

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