



ITALRAY

CARMEX RK FP

The Next Level Innovation!

**STRICTLY
CONFIDENTIAL**



Carmex RK FP

mobile C-arm

New design
Compact and light
Intuitive to use

- **Latest Technology** for Mobile C-Arm Systems
- **Renovated Workstation** with new layout and functionalities and **improved design**
- **Real Time** and **Post-Processing features** to fit all the needs of the operator



Carmex RK FP

mobile C-arm



- **5 kW** or **20 kW** generator power
- Max current: **100 mA** (5 kW) or **200 mA** (20 kW)
- **300 KHU** X-ray tube
- **a-Si** detector - **CsI** scintillator
- **21x21** cm or **30x30** cm detector format, **154 μm** pixel size
- **Automatic collimation**: square field and parallel shutters
- **Asymmetric** collimation
- **Removable** anti-scatter grid
- **Active cooling** option: selectable fan speed, improved workflow
- Dual **Laser**: modules on both flat panel and monoblock
- **DAP** – Dose Area Product meter

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mobile C-arm

- **Lightweight:** C-arm unit weighs only 280 Kg!!!
- **Motorized vertical** movement and optional motorized C-arm lateral movement ($\pm 45^\circ$)
- **Ergonomic** handles on the entire profile of the C-arm
- **Balanced** in all movements and rotations
- **Color-coded** brake/movement handles
- **Excellent** C-arm geometry and dimensions for surgical suite procedures
- Ability to **overcome** small **obstacles** and **gaps**
- **Cable-sweeping devices** on all wheels



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mobile C-arm

- **Highly intuitive** user interface and experience
- Pulsed fluoroscopy up to 25 fps
- High quality and low dose **fluoroscopy**
- **Digital Radiography**
- **DSA** – Digital Subtraction Angiography(*)
- **Monitor Unit** with n°2 21,5" touch screen medical monitor
- 13" touch screen control panel on C-arm unit
- Various **post-processing** functions: virtual collimator, edge enhancement, LIH, cineloop, live drawing, **adaptive ROI**
- Automatic removal of metal artefacts
- Manual or automatic saving of acquired images
- **DICOM 3.0**



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New Features - 2025

- 25kW Power, with updated inverter and new control SW
- Pulsed Fluoro Curve 6 - up to 200mA - Higher mA, shorter pulses - available without DSA
- IGZO 3030 detector, better performance than aSi.
- New graphic board PC
- 31,5"-4k monitor. 1:1 ratio panel/monitor
- 13,3" Control Panel, larger size and higher performance CPU
- New Image processing filters
- Green lasers Optional



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What makes the difference

IGZO Detector with State-of-the-Art Technology

- Provides higher resolution 146micron and faster acquisition speeds
- Delivers clearer, more detailed images for precise diagnostics and analysis
- Up to 30fps in full resolution
- CMOS equivalent



Full 2Kx2K Imaging Chain - from detector to digital acquisition to monitor display

- Maintains full resolution throughout the entire process
- Ensures ultra-sharp, high-fidelity images for better visualization and decision-making
- No interpolation & no compression

25kW Maximum Power for Critical Procedures

- Provides high power availability when needed
- Ensures optimal performance and reliability during demanding and complex interventions

- More free space
- New slim detector cover

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4K Medical Display

- High performances 4K Medical display 31,5"
- Height & Angle adjustable
- Full touch "smart" user interface
- Easy to clean without keyboard & mouse
- Reduced C-arm bulkiness
- Contrast 1300:1
- Brightness 1000Cd/m²



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Clinical Benefits



- Larger radiological image, 2x Resolution compared to previous version - **Monitor 31,5; IGZO FP: New graphic board PC 2Kx2K**
- Higher resolution, better visualization of small catheter and fine details - **IGZO FP used always full resolution no interpolation or compression, what you see is what you capture**
- High frame rate acquisition for cardiac procedures – **IGZO FP up to 30fps pulsed fluoro in all modalities, optimized cardiac Filter**
- Higher contrast for soft tissues - **Up to 250mA and new DRC Optimized filters**
- Better IQ for bariatric patients and for difficult projections like lateral spine – **25KW, 250mA, superior acquisition chain and high resolution visualization; dedicated DRC Filter**
- Redesigned smaller FP Cover (WIP) **will improve the customer experience of the 30x30 also in Orthopedic**
- Optional Green Lasers **for a better visibility during positioning**



Thanks for your Attention!



For more details, feel free to contact:
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