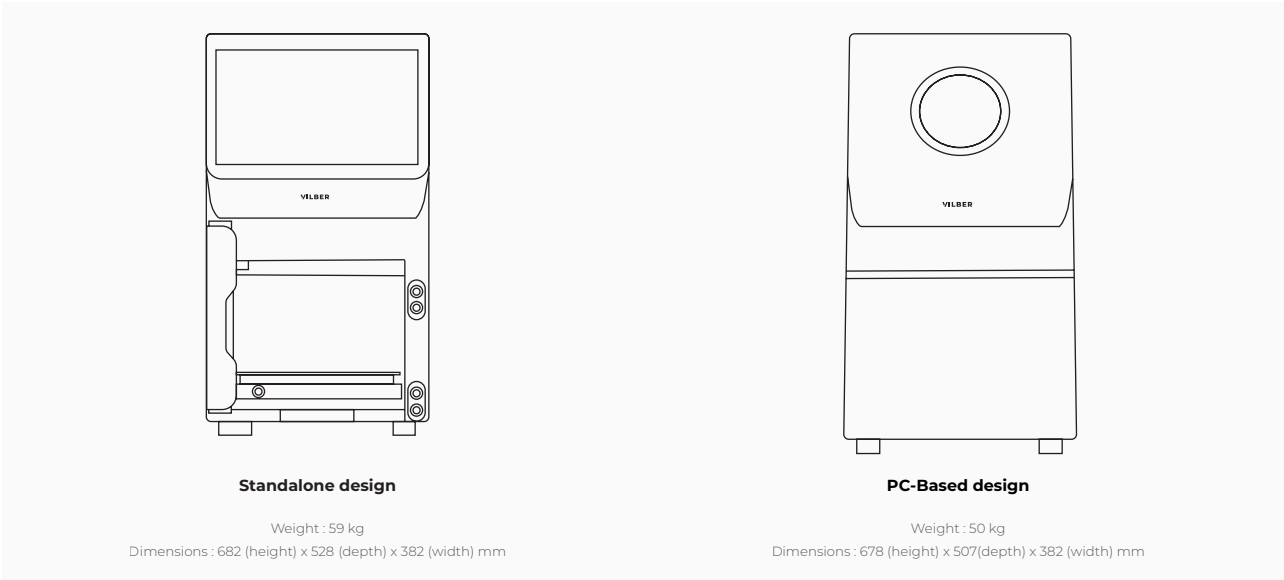# VILBER

MORE THAN IMAGES

FUSION ABSOLUTE FX7

— Technical specifications —

FUSION ABSOLUTE FX7

The Fusion Absolute FX7 imaging system is tailored to meet highest-sensitivity imaging needs for molecular biology and proteomics research. Equipped with either an integrated computer (15.6-inch touchscreen with 128GB storage, 1 USB 2.0) or PC-based, it offers versatility for advanced applications

Standalone design
Weight : 59 kg
Dimensions : 682 (height) x 528 (depth) x 382 (width) mm

PC-Based design
Weight : 50 kg
Dimensions : 678 (height) x 507(depth) x 382 (width) mm

Imaging modalities

- Chemiluminescence: Western, Northern, and Southern blotting
- Bioluminescence: Ideal for luciferase applications
- Fluorescence: Supports multi-channel imaging with a choice of 9 Absolute Spectra Capsules
- Colorimetric Imaging: Compatible with colorimetric-stained gels, X-ray film, SSCP gels, colony dishes, and flasks

DarQ-9 camera specifications

- Custom scientific-grade CCD camera, zero-defect (Grade 0)
- Resolution: 10 megapixels, native resolution of 2160 x 2160 pixels - Giant pixel size for unrivalled sensitivity
- Lens: Custom lens with an aperture of f/0.70 for enhanced sensitivity
- Cooling: Up to -90°C absolute cooling via a double cooling four stages Peltier
- Binning Modes: Available in 1x1, 2x2, 4x4, and 8x8 for sensitivity adjustments
- Field of View: Large field of view (up to 20 x 20 cm) for imaging multiple samples
- Dynamic Range: 4.8 O.D. for high dynamic contrast

Fluorescence Imaging features

- 9-position filter wheel, with a choice of up to 9 Absolute Spectra Capsules (excitation sources) from 365nm to 780nm
- Narrow-bandpass emission filters

Optional accessories

- Spectra Capsules: 9 LED capsules available (365nm to 780nm)
- Interchangeable Pads: Black Pad, White Pad , Super Bright UV Pad, Blue Light LED Pad, Green Light LED Pad
- Advanced Bio-1D Software for quantification

Installation and warranty

- Installation and training available
- Warranty: Standard 2-year warranty, option to extend
- Delivery: Estimated 8 weeks (expedited on request)

Smart darkroom architecture

- Motorized lens and filter wheel for precise adjustments
- Ethernet and Wi-Fi capabilities, with 3 USB 3.0, 1 USB 2.0, and 1 HDMI
- Automatic accessory recognition
- Stainless steel darkroom with wide-access door, UV safety, and sliding tray

Computer and software

- Integrated Computer Option: 15.6-inch touchscreen (resolution 1920x1080) with Windows 10, 128GB storage and 1 USB 2.0
- PC Requirements: Intel Core i5 or higher, 8GB RAM, 200GB storage, 4 USB ports (2 USB 3.0)
- Software: License-free software for acquisition, editing, analysis
- Data Export: 1-click to Excel, 16-bit TIFF format for image storage