# VILBER
MORE THAN IMAGES

FUSION ABSOLUTE FX6
— Technical specifications —

FUSION ABSOLUTE FX6

The Fusion Absolute FX6 imaging system is designed for high-performance imaging in Western blotting, DNA/RNA gel documentation, and fluorescence applications. It can be equipped with either an integrated computer (15.6-inch touchscreen with 128GB storage, 1 USB 2.0) or be PC-based. It offers versatility for advanced applications.
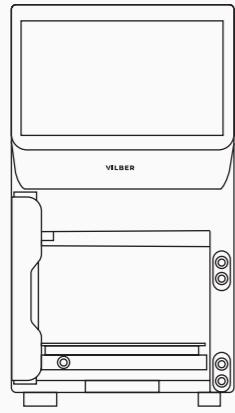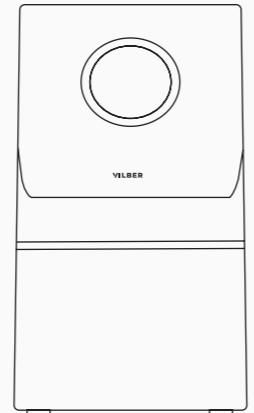
Standalone design

Weight : 59 kg

Dimensions : 682 (height) x 507(depth) x 382 (width) mm

PC-Based design

Weight : 50 kg

Dimensions : 678 (height) x 507(depth) x 382 (width) mm

Fluorescence Imaging features

◆ 9-position motorized filter wheel

◆ Choice of 9 Absolute Spectra Capsules (excitation light sources) from 365nm to 780nm

Optional accessories

◆ Spectra Capsules: Up to 9 LED capsules (365nm to 780nm)

◆ Interchangeable Pads: Black Pad, White Pad, Super Bright UV Pad, Blue Pad and Green Pad

◆ Advanced Bio-1D Software for absolute quantification

Installation and warranty

◆ Installation and training available

◆ Warranty: Standard 2-year warranty

◆ 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, all-in-one for acquisition, editing, analysis

◆ Data Export: 1-click to Excel, 16-bit TIFF format for image storage

Imaging modalities

◆ Chemiluminescence: Western, Northern, and Southern blotting

◆ Bioluminescence: Ideal for luciferase applications

◆ Fluorescence: Supports multi-channel imaging with a choice up to 9 Absolute Spectra Capsules

◆ Colorimetric Imaging: Compatible with colorimetric-stained gels, X-ray film, SSCP gels, colony dishes, and flasks

eVo-6 camera specifications

◆ Custom scientific-grade CCD camera with zero-defect (Grade 0) quality

◆ Resolution: 20 megapixels, with a native resolution of 2823 x 2224 pixels

◆ Lens: Custom-designed lens with an aperture of f/0.70 for enhanced sensitivity

◆ Cooling: Up to -55°C absolute cooling via three stages Peltier

◆ Binning Modes: Adjustable binning options (1x1, 2x2, 4x4, 8x8) for sensitivity control

◆ Field of View: Large field of view (up to 20 x 20 cm) for imaging multiple samples at once

◆ Dynamic Range: 4.8 O.D. for high dynamic contrast