



Chemiluminescence & Epi Fluorescence Alliance Q9 Manual

The Alliance Q9-Series is Uvitec's top-end chemiluminescence and spectral fluorescence imaging system, proudly boasting the highest optics specifications and sensitivity on the market. The Q9 Manual is a cost-effective imager, fully expandable and tailored to your workflow, upgradeable through plug-n-play technology.

Dims > Height: 845 mm - Width: 470 mm - Depth: 515 mm

Weight > With Transilluminator: 77 Kg - Without: 72 Kg

Practicality

- ▶ **Auto-exposure** > ideal exposure, for every sample
- ▶ **Pre-calibrated optics** > effortless setting, in no time
- ▶ **Fully slide-out tray** > hassle-free sample positioning
- ▶ **Mobile sample tray** > painless westerns imaging
- ▶ **All-in-one** > acquisition – editing – analysis, straight away

Applications

- ▶ **Femtogram-level** > stunning detection of faintest signals
- ▶ **Uvipure© technology** > enhanced UV for EtBr and all safe stains
- ▶ **New chromapure© modules** > up to 6 simultaneous channels
- ▶ **Confocal discs** > boosted fluorescence signals capture
- ▶ **Filters** > up to 18 filters to choose from

Optics

- ▶ **9.2 megapixels** > massive resolution, HD pictures
- ▶ **f/0.80 custom lens** > unrivalled camera sensitivity
- ▶ **-60°C camera cooling** > radical background suppression
- ▶ **OD 4.8 dynamic range** > outstanding weak/strong detection ratio
- ▶ **65,535 gray levels** > research-level protein quantification

Darkroom

- ▶ **Brand-new design** > Q-Smart darkroom
- ▶ **Box© concept** > interchangeable transilluminators
- ▶ **Plug-n-play** > upgrade any module, at any time
- ▶ **7-position wheel** > and up to 18 filters to choose from
- ▶ **Wave to open** > auto door aperture

▶ Chemiluminescence	Western blotting
▶ Fluorescence	Optional DNA and RNA gels with fluorescent stains
▶ Epi Fluorescence	Optional IR/NIR/RGB multiplexing with up to 8 wavelengths
▶ Bioluminescence	In-vivo Luciferase and Fluorescence
▶ Visible Imaging	Optional Colorimetry and Protein gels



ALLIANCE Q9 ADVANCED

Fully-customizable and versatile multi-application imaging platform. Boasting the highest optics specifications and sensitivity on the market.

CAMERA & OPTICS

9.2-megapixel native resolution (3380x2704)
18-megapixel extended resolution

16-bit CCD camera, 65535 shades of grey
-60°C regulated cooling, 3-stage Peltier
Panoramic custom lens, F/0.80 aperture
>4.8 OD dynamic range and >73% QE peak

Closest sample-to-camera distance
Extra-wide 24x20 cm field of view

SOFTWARE

Q9-Alliance® license-free software included:

- Unlimited users & computer installations
- Default and fully-customizable protocols
- Acquisition modes: Auto, Manual, Serial, Live
- 3D visualization and Live-3D® acquisition modes

Numerous image enhancement tools: text, crop, rotate, background subtraction, artifact corrections, multiplexing...

Unlimited analysis: quantification & normalisation, molecular weight with automatic band detection.

21-CFR-part-11 ready & compliant
optional CFR21 add-on software available

INNOVATIONS

Q-smart® fully-automated darkroom concept

Box® concept: fully plug-and-play, interchangeable transilluminators. Easy upgrade at any time.

Uvipure® technology for safe-stain imaging

Chromapure® for multiplex fluorescence:

- Dual-sided network of net-LED diodes (laser II)
- Powerful sample irradiation
- +/- 5% light homogeneity*

Confocal disc technology

DARKROOM

Stainless-steel made for extreme robustness
Long-lasting chemical-resistant Epoxy paint

Full door aperture for easy darkroom access
Fully slide-out plug-and-play transilluminator
Uvipure® patented technology available
6+1-position motorized filter wheel

100% software-controlled darkroom & exposure
One-click® image acquisition process

ILLUMINATIONS

DEFAULT

Epi-white LED panels
Chemiluminescence-ready
BioPanel® RGB LED panels

OPTIONAL

Large choice of plug-and-play transilluminators:
UV, Uvipure®, Safelight and White.

Customizable Chromapure® fluorescence:
choose from Blue-420, Blue-460, Green-520,
Red-650, Red-690, NIR-740 and IR-780.

Trans white or blue light (conversion screens)
Large choice of up to 17 emission filters

APPLICATIONS

- Chemiluminescence: ECL Western Blotting, Luciferase Bioluminescence (in-vivo), dot blots.
- DNA/RNA gels: Ethidium Bromide, Stain-free & safe stains (Gel Red & Green, Midori, SYBR, Bodipy, DAPI, SYPRO, etc.)
- Fluorescence & multiplexing: Cy dyes, Alexa dyes, Fluorescent proteins, LiCor dyes, etc.
- NIR/ IR fluorescence & multiplexing
- Colorimetric, stained protein gels & colonies