Azure 200 Imaging System
Product Specifications

5.
Transliumi-
natorius

Standard System Configuration

Including camera with 5.4 MPx image resolution; 16-bit image output, Highly sensitive fixed lens; Windows 10 Enterprise onboard computer with Full HD 13.3" Touchscreen; Dual wavelength UV trans-illuminator 302 and 365 nm; Orange Tray for visible applications and Black tray for other; Two EPI blue LEDs 472 ± 15 nm for safe dye gel applications; EPI visible LEDs for color imaging in Visible Imaging mode; Motorized 7 position filter wheel with 1 filter standard (Orange 595 BP 55 nm); Azure Imaging System touchscreen capture software; Included analysis software AzureSpot (1 license)

Additional Configurations (Optional)

Upgrade Options
- Upgradeable later to higher models like Azure 300, 300Q, 400, 500, 500Q and 600
- Configuration with external touchscreen desktop or laptop computer possible

Optional Accessories
- Trans White Table (LED based) – for analytical densitometry imaging of Coomassie blue, silver stain and other colorimetric gels

Recommended Imaging Applications

- UV 302/365 imaging
- Blue light imaging
- White light imaging
- Visible marker imaging

Recommended Sample Types

1. Paksirtis

Gels, membranes, film, slides, and a wide range of compatible sample types (please contact Azure Biosystems support or local Azure Biosystems application specialist in case of any questions)

List of Selected Compatible Dyes, Substrates and Kits

Azure Imaging System is an open platform, however a sample list of compatible dyes are listed below for a quick basic reference:

13. Dažų suderinamumas

- Fluorescence Tags and Proteins: Fluorescein, GFP
- Other Fluorescent Stains and Dyes: Ethidium Bromide, AmidoBlack, Deep Purple, Fluorescein, GelGreen, GelRed, GelStar, Ponceau S, Stain-Free, SYBR Green, SYBR Gold, SYBR Safe, SYPRO
- Orange, SYPRO Ruby, SYTO 60Trans UV Fluorescence Dyes: Ethidium Bromide, GelRed, SYPRO Red, SYPRO Ruby, SYPRO Orange, SYPRO Tangerine
- Blue Light Fluorescence dyes: SYBR Green, SYBR Gold, SYBR Safe, Fluorescein
- White Light trans-illumination: Coomassie Blue, Coomassie Fluor Orange, Silver Stain, radiography film (X-ray)

System Camera and Optics

- Camera with 5.4 MPx image resolution

2. Kamera

- Pixel size 2.5 μm x 2.5 μm (micron)
- Fixed lens f/1.8 for sensitive image capture
- Image output in 16-bit format
- Automatic focusing for user-friendly hands-off imaging

Versatile Imaging Darkroom

- Light tight cabinet for darkroom imaging
- Pull-out dual wavelength UV trans-illuminator with 302 and 365 nm

5. Transliuminatorius

- Safety door sensor to prevent accidental exposure to UV and other excitation sources, automatically shuts off the light when the door is open, unless safety override is activated

4. Apsauga

9. Įrankis UV apsaugos apėjimui

- Safety tool for safety override
- Safety override enables band cutting on the UV trans-illuminator, with automatic turn off time after 5 minutes for increased security (optional accessories for gel cutting are recommended for the best performance and ease of use)
- Motorized 7 position filter wheel with 1 filter standard (595 nm)

3. Filtrų ratas

- Two positions for imaging chemi and fluorescent samples, bottom shelf for largest field of view, and top shelf for highest resolution

8. Lentynos pozicijos

- Auto detection of sample blot shelf position for automatic focus adjustment
- Maximum field of view 20 x 15 cm

8. Matymo laukas

Illumination Light Sources

- Dual wavelength trans-illuminator with UV 302 and 365 nm lamps, lifetime exceeding 30,000.00 working hours to reduce replacement and service costs   5. Transliuminatorius
- EPI Blue LEDs 472 ± 15 nm for SYBR Safe and similar blue light gel applications   6. Mėlyna šviesa
- Conversion screen for trans-illumination of Coomassie and silver stain gels   7. Oranžinis padėklas

Onboard Touchscreen Computer

- Windows 10 Enterprise onboard touchscreen computer
- Connectivity includes wireless (Bluetooth, Wi-Fi) and wired (Ethernet port) connection
- Touchscreen 13.3" with multitouch function and Full HD 1920 x 1080 resolution   10. Prietaiso valdymas
- Professional performance with 8 GB RAM and 64-bit OS   11. Priograminė įranga
- Onboard storage 500 GB SSD with space for user data saving
- 3x Build-in USB ports – 2x USB type A (female, 1x USB 3, 1x USB 2) ports to attach external   12. Jungtys
  peripheries and accessories, 1x USB type B (female) for connecting to the external computer
- 1x Build-in Ethernet port for direct local network connectivity (LAN) with a network cable
- Configuration with external touchscreen desktop or laptop computer possible (on demand)
- Windows 10 Pro or Enterprise enables connecting to business or school Domain or Azure Active Directory to use network files, servers, printer; additional security with BitLocker to help protect data with encryption and security management; remote log-in; creating virtual machines and much more

Capture Software

11. Programinė įranga

- Unique touchscreen GUI for each application, that requires no additional focusing or other system adjustments
- Gallery mode enables basic file opening, editing, exporting and saving in multiple formats; view and export images in multichannel or single channel mode; add Notes to images
- Preset automatic application modes (nucleic acid, protein gel) for fast optimized workflow; choice of Autoexposure, manual or overexposure for performance and flexibility
- Nucleic acid mode enabling UV 302/365, EPI Blue and Visible Detection; UV Override for band extraction and tri-halo compound stains dye activation and automatic detection
- Multiplex up to 4 channel images captured from any of the light sources
- Custom mode for full flexibility in opening, editing and saving customized imaging protocols
- Optional autosave for image files
- Optional generation of publication ready images (publication TIFF and JPEG)
- Default image output as 16-bit raw TIFF and publication TIFF; export to JPG, BMP and PNG
- User manual available in the capture software

AzureSpot Analysis Software

- Comprehensive 1D Analysis software included in the package with imaging system
- Windows compatible software with standalone installation (upgrade to network multi-license options available at the purchase)

Dimensions and Operational Specifications

- Working environment in ambient temperature 0-30 °C and humidity up to 85% 15. Darbinė aplinka
- Electric power: 100-240 VAC, 4A; Single Phase; Consumption: 0.4 kW (400 Watts)
- Size (w x h x d): 16" x 22" x 13" (41 cm x 56 cm x 33 cm) 14. Matmenys
- Weight: 39 lbs (17.7 kg)
- CE Compliance Certified
- Made in California, USA