

| Features | Lumascope 560 | Lumascope 620 | Lumascope 720 |
|---------------------------|--|---|---|
| Optics | Green fluorescence; brightfield | Blue, green & red fluorescence; brightfield | Blue, green & red fluorescence; brightfield |
| Phase Contrast | Phase contrast optional (Olympus) | Phase contrast optional (Olympus) | Phase contrast optional (Olympus) |
| Objective Options | 1.25x, 2.5x, 4x, 10x, 20x, 40x, 60x, and 100x(oil) magnification | 1.25x, 2.5x, 4x, 10x, 20x, 40x, 60x, and 100x(oil) magnification | 1.25x, 2.5x, 4x, 10x, 20x, 40x, 60x, and 100x(oil) magnification |
| Objective Compatibilities | RMS-threaded, infinity corrected, 45 mm parfocal distance | RMS-threaded, infinity corrected, 45 mm parfocal distance | RMS-threaded, infinity corrected, 45 mm parfocal distance |
| Fluorescence Filters | Green: Ex 457-493, Em 508-552 nm | Blue: Ex 370-410, Em 429-462 nm; Green: Ex 473-491, Em 502-561 nm; Red: Ex 580-598, Em 612-680 nm | Blue: Ex 370-410, Em 429-462 nm; Green: Ex 473-491, Em 502-561 nm; Red: Ex 580-598, Em 612-680 nm |
| Camera | High Sensitivity Monochrome CMOS Sensor; C-mount | High Sensitivity Monochrome CMOS Sensor; C-mount | High Sensitivity Monochrome CMOS Sensor; C-mount |
| Image Formats | JPG, BMP, TIF, or PNG | JPG, BMP, TIF, or PNG | JPG, BMP, TIF, or PNG |
| Image Size | 100x100 to 1700x1700 pixels | 100x100 to 1900x1900 pixels | 100x100 to 1900x1900 pixels |
| Field of View | Up to 0.78 x 0.78 mm at 20x | Up to 0.78 x 0.78 mm at 20x | Up to 0.78 x 0.78 mm at 20x |
| Video Rates | Up to 10 fps; with reduced frame size, to 30 fps | Up to 10 fps; with reduced frame size, up to 30 fps | Up to 10 fps; with reduced frame size, up to 30 fps |
| Stage | Manual XY | Manual XY | Automated XYZ, SBS nest, 6- to 1536-well microplates; |
| Well-to-well time | NA | NA | Image 96 wells: 1 color focus & image: 13 min / 3 color focus & image: 34 min |
| Computer Requirements | Windows 7, 8, 8.1, 10; Core i5, SSD | Windows 7, 8, 8.1, 10; Core i5, SSD | Windows 7, 8, 8.1, 10; Core i5, SSD |
| Automation Friendly | SDK available | SDK available | SDK available |
| Power Requirements | USB | USB | USB for LS; 100-240 V, 50-60 Hz for autostage |
| Dimensions (WxDxH) | 24 x 14 x 16.5 cm (9.4 x 5.5 x 6.5 inches) | 24 x 14 x 16.5 cm (9.4 x 5.5 x 6.5 inches) | 37.4 x 43.8 x 23.9 cm (14.7 x 17.3 x 9.4 inches) |
| Weight | 3.25 kg (7.2 lb) | 3.25 kg (7.2 lb) | 11 kg (25 lb) |
| Operating Conditions | 0°C - 42°C, 5% - 95% RH non-condensing | 0°C - 42°C, 5% - 95% RH non-condensing | 0°C - 42°C, 5% - 95% RH non-condensing |