Hand-held Camera Reader



The Lumos Hand-held Camera Reader provides high-performance detection technology in a cost-effective reader. Using the same optical technology as the Lumos Leelu benchtop reader, our hand-held reader can be customized to serve a wide range of applications and is available in an easy-to-use benchtop solution that integrates the reader, tablet and cradle.

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- Visible and/or fluorescent detection chemistries
- Qualitative, semi-quantitative and quantitative results with high sensitivity and wide dynamic range



- Integrated screen and/or LED indicator outputs
- Integrated or external barcode reading
- Android touchscreen tablet provides full user interface, connectivity and storage

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TECHNICAL SPECIFICATIONS

DESCRIPTION	High sensitivity portable lateral flow camera reader
BRANDING	Customizable branding (both reader and software app)
ASSAY LABEL COMPATIBILITY	Colorimetric (multiple wavelength absorbance including Gold nanoparticles, colored latex beads, etc.) Fluorescence (customizable to a broad range of fluorophores)
ASSAY MENU	Reader supports multi-assay menu via highly configurable assay definitions Assay menu updatable in field via app
CASSETTE IDENTIFICATION	Internal cassette 2D barcode reading support for assay identification, validation and lot specific calibration
CASSETTE COMPATIBILITY	Lumos standard cassettes available for one to three x 4mm strips. No reader customization required. Support for adapting reader to pre-existing or custom cassettes (up to four strips)
USER WORKFLOW	Walk away mode (reader controls assay incubation time) and reading of pre-incubated test
USER INTERFACE OPTIONS	Smartphone App (IOS and Android) PC Software (Windows) Standalone operation, results displayed on reader LED indicator
READER CRADLE	Optional cradle to hold and power the reader and an 8” tablet Devices removable for portable operation
CONNECTIVITY	Bluetooth 4.2 for smartphone/tablet connectivity USB 2 or greater for computer connectivity
DISPLAY	Multicolored LED status indicator Optional integrated graphical display
POWER	Internal rechargeable battery and USB powered
SIZE	W 82mm x L 100mm x H 87mm
WEIGHT	500 grams
IMAGE SIZE	Maximum image size for analysis 32 x 20 mm
MEASUREMENT PERFORMANCE	Line measurement reproducibility of <3% CV across multiple readers
RESULTS STORAGE	Onboard storage for 500+ test results; results export to smartphone app or PC
CALIBRATION	Automatic self test includes calibration check with internal control
TIME AND DATE	Results time/date stamped using internal clock. Time synchronization via app
READER SOFTWARE	Support for in field reader software updates
DEVELOPMENT SOFTWARE	PC software available for development use
OPERATING ENVIRONMENT	Professional use (point of care, laboratory, etc.) and home use. 10°C to 35°C with configurable temperature lockout
SUPPORTED MARKETS	Worldwide
REGULATORY	Developed and manufactured to ISO 13485; suitable for IVD applications up to FDA Class II; CLIA Waiver compatible
READER LIFETIME	10,000 tests

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