

OPTIVISION GL

Professional HD Video Borescope

**Inspect Smarter.
Decide Faster.**

High-performance visual inspection
for demanding industrial environments.



Full HD Imaging

Crisp, clear visuals for
confident inspections.



360° Articulation

Precise control for complete
viewing coverage.



Interchangeable Probe System

Versatile probes for a wide
range of applications.



Advanced 2D Measurement

Accurate on-screen measurements
for faster decision-making.

DESIGNED FOR MAXIMUM PERFORMANCE

Engineered for precision.
Built for the toughest environments.



5.8" 1080P HD color touch screen

Vivid, responsive display
for precise, confident
inspections.



Picture-in-Picture Comparison

Built-in PiP window for
easy comparison and
observation.



Advanced Imaging

High brightness, high
contrast imaging for
clear results in any
environment.



High Accuracy Measurement

Point to point, multi-point,
line, area and depth
measurements.



Interchangeable Probe System

Versatile compatibility
with a wide range of
inspection probes.



Portable Design

Lightweight and compact
for easy transport and
on-site use.



Quick Assembly

Tool-free probe and
battery setup for fast
deployment.



Servo-Controlled Joystick

Flexible, labour-saving
handling with a servo-
controlled joystick for
precise articulation and
smooth inspection control.



Extensive Probe Configurations

Virtually all probe options
are possible: multiple
diameters and lengths,
white, UV or IR lighting,
front, side or dual view,
and even salvage tools.



Long-Lasting Battery

Hot-swappable battery
for extended operation
when it matters most.

OPTIVISION GL

One Platform. Multiple Inspection Solutions.



PROBE DIAMETER RANGE – FORWARD-VIEW

(0° viewing direction)



Variable
Diameters

PROBE DIAMETER RANGE – SIDE-VIEW

(90° viewing direction and forward/side switchable)



Probe diameters available from 1.0 mm to 8.4 mm.

1 FORWARD VIEW



2 SIDE VIEW



3 DUAL VIEW



EXCHANGEABLE PROBES AND TIPS



Our modular probe system features fully exchangeable probes and tips in a wide range of diameters and working lengths to match your inspection needs.



Multiple diameters and working lengths are available, providing flexibility for a variety of applications and environments.



We can also develop custom-made probe solutions together with our partners to overcome your unique inspection challenges.

OPTIONAL CONFIGURATIONS



UV Inspection Probes



Infrared Inspection Probes



Zoom Probes



Extra Long Probes



Integrated Retrieval Tools available

ILLUMINATION



White LED illumination:

LEDs integrated in the tip for compact, versatile inspections.



Fiber illumination:

remote high-intensity light guided by fiber optics for maximum brightness.



Compact camera tips

improve maneuverability in tight bends and restricted spaces.

POWERFUL INSPECTION SOFTWARE

Inspect. Measure. Document.

The Optivision GL software delivers an intuitive inspection experience with advanced measurement tools, image optimisation and smart reporting functions – all in one powerful platform.



2D MEASUREMENT FUNCTIONS

Perform fast and accurate dimensional measurements directly during inspection.



Point-to-Point



Point-to-Line



Polyline



Area
Measurement



Radius
Measurement



Rectangle
Measurement

IMAGE & VIDEO FUNCTIONS

Capture, record and manage inspection media with ease.



PHOTO CAPTURE
JPEG / PNG



VIDEO RECORDING
MP4 / AVI / MOV



ANNOTATIONS
Text, Drawing,
Labels



FILE MANAGEMENT
Organise, Copy,
Rename, Delete

ADVANCED IMAGE OPTIMISATION

Enhance clarity and reveal critical details.

- ✓ Brightness
- ✓ Contrast
- ✓ Saturation
- ✓ White Balance
- ✓ Exposure
- ✓ Gain
- ✓ 10x Digital Zoom
- ✓ Picture-in-Picture*
- ✓ Live Image Comparison
- ✓ Image Rotation

ORIGINAL IMAGE



OPTIMISED IMAGE



* Available on selected probe configurations.

INTELLIGENT INSPECTION & REPORTING

Work smarter with built-in tools for efficient inspections and professional reports.

INSPECTION

- Screen Lock
- Freeze Frame
- Screenshot
- Image Rotation
- Temperature Alarm

REPORTING

- Documentation Report
- Image Comparison
- Real-Time Review
- Picture Rename
- SD Card Export



BUILT FOR RELIABILITY

Rugged design. Intuitive software.
Results you can trust.



PROFESSIONAL REPORTING

Generate inspection reports directly on the controller with integrated images, annotations and measurement results.



SECURE & CONVENIENT

Save data to the built-in 64 GB storage or expandable SD card. Up to 256 GB.

THE COMPLETE OPTIVISION GL SOLUTION

Everything you need for
confident industrial inspections.

Optivision GL combines advanced imaging, powerful software and rugged portability with expert support – delivering accuracy, reliability and productivity in every inspection.



COMPLETE INSPECTION KIT



- ✓ Optivision GL Controller
- ✓ Interchangeable Probe
- ✓ Probe Adapters
- ✓ Power & Charger
- ✓ Rugged Carry Case
- ✓ Documentation & Support

ESSENTIAL ACCESSORIES



SHOULDER STRAP

Hands-free carrying for greater comfort.



DUAL BATTERY CHARGER

Keep a spare battery charged and ready.



PROBE ACCESSORIES

Mirrors, magnets and protective sleeves for more applications.



RUGGED CARRY CASE

Protects your system on the move.



SERVICE & SUPPORT

Responsive support and expert guidance to keep your inspections running smoothly.



TRAINING & DEMONSTRATION

On-site or remote training and live demonstrations to help your team get the most from Optivision GL.



BUILT FOR TOUGH ENVIRONMENTS

Rugged, reliable and designed for demanding industrial conditions.



PORTABLE & READY

Lightweight, ergonomic design with long-life battery for on-the-go inspections.

OPTIVISION GL AT A GLANCE



SEE MORE. DETECT FASTER.

High-resolution imaging and precision optics help you see what others miss.



CONFIDENCE IN EVERY INSPECTION.

Intuitive controls and clear visuals make it easy to capture accurate results, every time.



BOOST PRODUCTIVITY.

Fast setup, efficient workflow and reliable performance help you get more done.



RELIABLE. RUGGED. READY.

Built to perform in the harshest environments—day in, day out.

TECHNICAL DATASHEET

Optivision GL

Compact overview of controller, software and probe capabilities.



CONTROLLER / MONITOR

Display	5.8 inches 1080P HD color touch screen
Touch screen	Capacitive multi-touch
Display brightness	Manual 10 levels
LCD Monitor	5.8 inches 1080P HD color touch screen
Weight	<1.5 kg
Joystick control	Servo
Interchangeable probes	Available
Video output	HDMI digital video port
USB	Type-C
WIFI	Available
Bluetooth	Available
Internal storage	64 GB SD card
Battery	Built-in rechargeable lithium battery
Battery capacity	7.4V 9000mAh
Working time	More than 4 hours standard 2 batteries

SOFTWARE & FUNCTIONS

Operating system	Linux embedded system
Live zoom	10x magnification
Image formats	PNG, JPG, JPEG / 1280×720 / 1920×1080
Video formats	MP4, AVI, MOV, 3GP / 1280×720 / 1920×1080
Firmware update	via SD card
Languages	Chinese, English
Dual camera display	Picture-in-picture
Image adjustment	Brightness, hue, saturation, contrast, white balance, exposure, gain
Image comparison	Real-time pictures vs stored pictures
Functions	picture freeze, photo during recording, screenshot, image rotation, temperature alarm, screen lock, energy saving mode, picture rename, text annotation, negative film, defect enhancement, flip the view up, down, left, and right
Picture editing	brightness, color temperature, contrast, saturation
File processing	add, copy, delete, rename

PROBE OVERVIEW



Diameter range
1.0 mm to 8.4 mm



Working lengths
1 m to 10 m



Viewing directions
Forward view, Side view,
Forward & Side switchable



Articulation
2-way, 4-way, 360° electric control
depending on configuration



Resolution
Up to 1080p depending
on probe series



Illumination
White LED, Fiber illumination,
UV 365 nm, IR 940 nm



Integrated retrieval tools
Available on selected configurations



Exchangeable probes and tips



Compact camera tips for tight bends



Custom-made probes developed
together with partners are available

