OMRON



Visual Inspection by Digital Solution.









Let the Digital LUPE show you the way to higher quality.



Making Visual Inspection more Precise and Efficient

The level of quality control can be greatly improved by using monitor checks, which are easy on the eyes, and provide convenient monitoring functions for essentially any application.



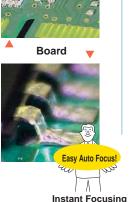
Precision and Efficiency

Electronic Zoom (5x to 100x) and Auto Focus

A power zoom can be used to monitor at 5x to 50x, or 10x to 100x, as required by the objects being monitored. Also, with the Auto Focus, even high-magnification inspections can be performed quickly. Smooth monitoring is possible for a wide range of applications.

Advantages

- Increases inspection speed.
- Combines a magnifying glass and microscope in one unit.
- Eliminates troublesome focusing operations.
- Reduces human inconsistencies in focusing.



Operator Friendly Inspection Environment

High-quality Images are Easy on the Eyes

Enlarged images can be viewed on the monitor, reducing eye fatigue and dizziness. The LUPE provides an inspection environment that minimizes oversights.



Freeze Function

With a single touch you can view a frozen frame (still image) of the place and instant you wish to see. Useful for increasing inspection accuracy by reducing oversights.

Advantages

- Inspecting minute parts with their heavy inspection load.
- Inspecting objects that are difficult to fix in one place.

Discover Factory Problems, and SO

Digitize Quality Information

Effectively utilize data to create standards for quality and reports. A digital operating method connects you to the future.



Applications that expands in your computer.

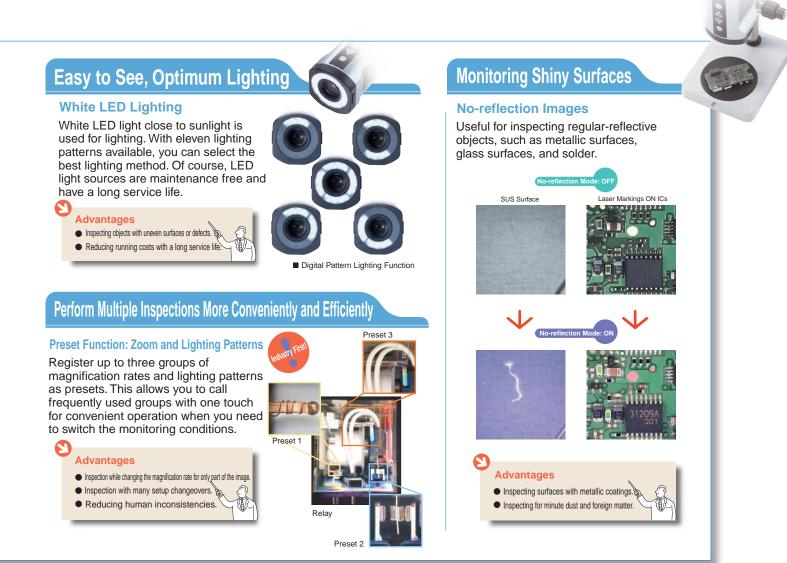
You can use a PC capture card (commercially available) to load image data onto a computer. The data can be saved and used to create quality standards, databases, reports, and much more.



Advantages

- Recording/pasting images of defective products
- Making databases of standards for quality.
- Creating reports.
- e-mailing images.
- Measuring images with measurement software.





VE Them with the Digital LUPE.

Enabling Team-wide Quality Studies

Connect directly to a projector. Go beyond magnifying glasses with ea application to quality control meetings or prototype study sessions.

Readily Project Large Images

With the Digital LUPE, you can also project large images with a single touch, facilitating the exchange of opinions while viewing relevant images.

Advantages

Quality control meetings, prototype
discussions, and other types of meetings



Freeze Function With one touch you can freeze frame the image at an important point, which is ideal for facilitating in-depth discussion.





A Digital Eye Shows You More

Today a severe eye is being cast on the quality of process control that is as severe and sometimes even severer than for the quality of the products themselves. Various quality control issues call for production environments to provide methods for recording information on product quality from visual inspections on the production lines to creating databases of quality standards. These needs can be met with OMRON's Digital LUPE. The LUPE is easy to operate, and has digital functionality that can greatly boost quality control capabilities. Another digital solution from OMRON.





Applications





Defects in Molded Goods (Dents)

LCDs

System Configuration



NTSC-compliant video (S terminal, composite

Digital LUPE VC-DL100



Specifications

Digital LUPE

					_
		Imaging element	1/4 CCD, approximately 38,000 effective pixels		Γ
	tions	Image output	VBS: 1Vp-p (negative sync) and Y/C output 5-50x lens: 90 mm, 10-100x lens: 48 mm		
	specifications	Imaging distance			
		Lighting	White LED		
	Performance	Image adjustments	Auto white balancing, AE full auto		
	Perfo	Monitoring Tools	Auto Focus, Freeze Function, Electronic No-reflection Mode, Digital Pattern Lighting		

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PCBs

Weight



Spark Plugs

					Monitor (commercially available)
o input e)			(c	apture card commercially vailable)	Computer (commercially available)
		Annul		6	Project (commercially available)
				Supply voltage	7 VDC (AC adapter for 100 to 240 VAC included.)
			S	Power consumption	5 W (rated)
			Specifications	Ambient temperature	Operation: 0 to 40°C, Storage: -10 to 50°C (with no icing or condensation)
			scific	Ambient humidity	Operation/Storage: 20% to 85% (with no condensation)
			Spe	Dimensions	$76\times77.5\times127.5$ mm (excluding projections)

This document provides information mainly for selecting suitable models. Please read the document SCNC-703 carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

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Approx. 300 g (Digital LUPE with x50 lens mounted)

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