



# **THE SEEKER™ 050 SERIES**

## *USER'S MANUAL*



# **DCS050/DCS050-09**

## **USB VIDEO INSPECTION SYSTEMS**

*Please read this manual carefully and thoroughly before using this product.*

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## INTRODUCTION

*Thank you for purchasing the The Seeker™ 050 series Video Inspection Systems from General Tools & Instruments. We strongly suggest that you read this user's manual carefully before using the product.*

The Seeker050 series is a new member of General's award-winning family of Seeker Video Inspection Systems. It is designed for a wide variety of inspection applications—such

as inspecting buildings for mold, leaks or pests; inspecting ducts and pipelines for corrosion or leaks; reading parts and serial numbers of equipment in industrial and manufacturing settings; and inspecting the interiors of motor vehicles, airplanes and marine craft. Like its siblings, the Seeker050 offers a cost-effective way for technicians, mechanics, contractors and repairmen—as well as the home DIY user—to visually inspect inaccessible or hazardous areas and thus diagnose hidden system problems without the need for a complete disassembly or teardown.

The system has a single main component: a compact, ergonomic grip with a USB connector that mates with a fixed high-strength, “flexible-obedient”, 1 m (3.28 ft.) long camera-tipped probe with adjustable LED lighting. By connecting the grip to your portable Windows computer (laptop or netbook) with the attached 1 meter long USB cable, you can view real-time video on your computer screen, and record and edit it as well. One reason the DCS050 series is so cost effective is that it has no internal battery; it is powered through your computer's USB 2.0 port.

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## KEY FEATURES

- Plug-n-play “no software to install”
- Connects via USB 2.0 to most modern Windows computer running Windows 7, Vista, or Windows XP operating system
- 320 x 240 pixel camera resolution and two adjustable-intensity LEDs yield crisp, clear video

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## SAFETY INSTRUCTIONS

The probe is not electrically insulated, so do not bring it into contact with exposed AC wiring.

Although the probe and camera head are water, dust and oil proof, refrain from immersing them in liquids. Doing so could increase the risk of electrical shock.

# OPERATING INSTRUCTIONS

## *What's in the package*

The Seeker050 series (the grip and a 1 m (3.28 ft.) long probe) comes fully assembled in a blister pack. The pack also contains a set of three probe tip retrieval and inspection accessories (a mirror, a magnet and a pick-up hook) and this user's manual.

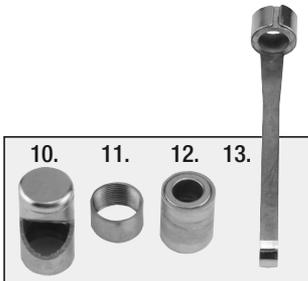


- 1. Grip
- 2. Probe
- 3. Camera head
- 4. Camera protective cap
- 5. On/off/brightness adjustment thumbwheel
- 6. USB cable



TIP ACCESSORIES FOR 12MM DIAMETER PROBE

- 7. Magnetic tip
- 8. Hook tip
- 9. Mirror tip
- 10. Mirror
- 11. Thread Protector
- 12. Magnet
- 13. Hook



TIP ACCESSORIES FOR 9MM DIAMETER PROBE

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## GETTING STARTED

Before using the Seeker050 or the Seeker050-09, make sure to remove the rubber cap that protects the LEDs on the end of the probe.

The first thing you need to do to activate the unit is to plug the supplied USB cable into an available USB port (USB 2.0 or 3.0) on your computer. Next, roll the thumbwheel on the grip forward until it clicks. This powers up the grip through the USB port. On the task bar, you will first be advised that your computer has “Found new hardware”, and then that it is searching for a compatible USB device driver. If you are prompted that the device or driver is incompatible, click “Install anyway”. You may have to restart your computer to complete downloading the driver.

Once either of the Seeker050 series has been connected, use Windows Explorer to locate “USB VIDEO” under “Computer” or “My computer”. Double-clicking on the icon should display the live video being captured by the probe on your screen. You can then use the thumbwheel to simultaneously adjust the brightness of the probe’s LEDs and the displayed video.

To attach any of the three 12mm accessories that come with the DCS050, slip its semicircular end over the flats of the camera head and rotate the accessory 90° until it snaps into place.

Attaching the 9mm accessories is easy as they screw on to the tip of the probe.

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## SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Field of view                    | 60°   |
| Minimum focal distance           | (DCS050) 4" (100mm)                                     |
| Depth of field                   | (DCS050-09) 0.5" to 5" (12.7 to 127mm)                  |
| Connection/power supply          | Via USB 2.0 or 3.0 computer interface                   |
| Camera resolution                | 320 × 240 pixels  |
| USB cable length                 | 1m (3.28 ft.)   |
| Probe length                     | 1m (3.28 ft.)   |
| Probe diameter                   | DCS050 - 12mm (0.47 in.);<br>DCS050-09 - 9mm (0.34 in.) |
| Operating temperature            | 32° to 113°F (0° to 45°C)                               |
| Operating relative humidity (RH) | 5% to 95%, non-condensing                               |
| Storage temperature              | -4° to 122°F (-20° to 50°C), at 85% RH or less          |
| Dimensions                       | 10.5 x 2.9 x 3.2 in. (266 × 73 × 80mm)                  |
| Weight of grip                   | 12.8 oz. (363g)   |

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## **MAINTENANCE TIPS**

The Seeker050 series requires no routine maintenance other than periodic cleaning. To clean the instrument, use a soft dry cloth. Never use a wet cloth, solvents or water.

Although the probe and camera head are water, dust and oil proof to IP67 standards, refrain from immersing them in liquids or allowing them to come into contact with corrosive chemicals. Remember that the grip is not waterproof.

Never forcibly insert or bend the probe. Nor should you bend it in more than a 2 inch radius, or use it like a stick to clear pathways or debris.

Remember to replace the camera head's protective rubber cap after each use of the Seeker050. If your videos have spots, gently clean the camera head with a clean, dry cloth.

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## **WARRANTY INFORMATION**

The Seeker050 series USB Video Inspection Systems from General Tools & Instruments (General®) is warranted to the original purchaser to be free from defects in material and workmanship for a period of 3 years. Subject to certain restrictions, General will repair or replace this instrument, if after examination, it is determined by General to be defective in material or workmanship.

This warranty does not apply to damages that General determines to be from an attempted repair by non-authorized personnel or misuse, alterations, normal wear and tear or accidental damage. The defective unit must be returned to General Tools & Instruments or a General authorized service center, freight prepaid and insured.

Acceptance of the exclusive repair and replacement remedies described herein is a condition of the contract for purchase of this product. In no event shall General be liable for any incidental, special, consequential or punitive damages, or any cost, attorneys fees, expenses, losses alleged to be

as a consequence of any damage due to failure of, or defect in any product including, but not limited to, any claims for loss of profits.

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## **RETURN FOR REPAIR POLICY**

Every effort has been made to provide you with a reliable, product of superior quality. However, in the event your instrument requires repair, please contact our Customer Service to obtain a RGA# (Return Goods Authorization) before forwarding the unit via prepaid freight to the attention of our Service Center at this address:

General Tools & Instruments  
80 White Street  
New York, NY 10013  
212-431-6100

Remember to include a copy of your proof of purchase, your return address, and your phone number and/or e-mail address.





## **Specialty Tools & Instruments**

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**The Seeker050 User's Manual (DCS050)**

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