Digital Image Analysis for the Microbiology Laboratory

- BIOMIC® V3: The complete clinical microbiology system for Antibiotic Susceptibility Testing, Organism Identification, and Colony Counting.

- TRINITY™ V3: The complete industrial microbiology system for Antibiotic Potency Assays and Colony Counting.
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Mission Statement

Giles Scientific provides the best quality, most technically advanced and highly reliable microbiology digital imaging systems globally. Giles Scientific designs, develops, manufactures, sells, warranties, and supports our products globally.
BIOMIC® V3

For Clinical Microbiology Laboratories

BIOMIC V3 reads and interprets antibiotic disk susceptibility test plates and Etest® strips (bioMerieux), species identification panels including API® (bioMerieux), Crystal™ (BD), and RapID™ (Remel), chromogenic agar plates and the option for 96-well microtiter plate reading. This system is ideal for hospital, reference and veterinary microbiology laboratories.

Hardware/Accessories:
V3 color digital imaging cabinet, 21.5 inch touch screen monitor*, bar code reader, ID panel holders (optional), 90mm diameter plate adapter, software CD, calibration templates, power supply with cord, USB 2.0 cable, and Product Manual.

BIOMIC V3 Modules:

Testing Center:
Antibiotic Susceptibility: Automatically reads and interprets antibiotic disk tests, and Etest® (bioMerieux) strips based on CLSI, EUCAST, BSAC, and other published recommendations.
Organism Identification: Automatically reads and interprets ID panels including API® (bioMerieux), RapID™ (Remel), and Crystal™ (BD).
Colony Counting and Chromogenic Agar Reading: Automatically counts bacteria and yeast colonies and viral plaques on plates up to 150mm, reads and interprets chromogenic agar.

96-Well Microtiter Plate Reading (Optional, see pg 5 for pricing): Automatically reads and interprets custom 96-Well AST and ID plates (all brands), Sensititre (TREK) AST** and ID plates, MicroScan (Siemens) AST** and ID plates. Additional sizes and shapes of plates and wells (available on request) **Note: This BIOMIC application of reading MicroScan and TREK AST panels has not yet been cleared for use in the USA.

Quality Control Center: QC testing for antibiotic disks, Etest® and ID panels; QC summary reports and disk/Etest/media/ID panel/reagent logs.


Help & Training Center: Electronic product manual and microbiology training modules, online access to Customer Support Center and Training Video Library.

IQ/OQ/PQ Validation Documents:
Used to validate that BIOMIC V3 is installed correctly, is operational, and performs in accordance with laboratory requirements.

1 Year Service Contract (renewable annually):
Annual BIOMIC V3 software update, live technical support 7 days per week, complete hardware warranty, system installation and setup (via telephone and email), LIS/LIMS interface support (LIS/LIMS provider may charge a separate fee)

*Note: 21.5 inch touch-screen monitor is included with each purchase. A computer must be purchased locally.

Computer Requirements: Pentium 4 or equivalent (minimum) Core 2 Duo or faster (recommended for optimal performance), 512 meg RAM (minimum), 2 gig RAM or higher (recommended), Windows XP, Windows Vista (32 bit), or Windows 7 (32 bit), all Microsoft Service Packs and Critical Updates must be applied, 3 available USB ports (minimum), Internet connection (strongly recommended), surge protector, and serial port for LIS/LIMS connection.
**TRINITY™ V³**

For Industrial Microbiology Laboratories

TRINITY V3 provides industrial microbiology testing by combining automated zone reading for antibiotic potency assays, colony counting, and chromogenic agar plate reading. This complete system is ideal for microbiologists in pharmaceutical, food, feed, water, Quality Assurance, Quality Control, and research laboratories.

**Hardware/Accessories:**
V3 color digital imaging cabinet, 21.5 inch touch screen monitor*, calibration templates, bar code reader (optional), electronic caliper (optional), 90mm diameter plate adapter, software CD, power supply with cord, USB 2.0 cable, and Product Manual.

**TRINITY V3 Modules:**

*Antibiotic Potency Assay:* Automated reading of multiple 90-100mm agar diffusion plates, following US-FDA (United States Food & Drug Administration), USP (United States Pharmacopoeia), AOAC (Association of Analytical Communities), EP (European Pharmacopoeia), BP (British Pharmacopoeia), and JP (Japanese Pharmacopoeia) methods. Meets 21 CFR Part 11 (Code of Federal Registry) and GLP (Good Laboratory Practices) requirements. Electronic caliper (optional) is used for reading single large plate assays, including 243 mm bioassay dishes.

*Colony Counting and Chromogenic Agar Reading:* Automatically counts bacteria and yeast colonies and viral plaques on plates up to 150mm. Reads and interprets chromogenic agar plates.

**Q/OQ/PQ Validation Documents:**
Used to validate that TRINITY V3 is installed correctly, operational and performs in accordance with method guidelines outlined in CFR, US-FDA, AOAC, USP, EP, BP, JP and GLP standards.

**1 Year Service Contract:** (renewable annually)
Annual TRINITY V3 software updates, live technical support 7 days per week, complete hardware warranty, system installation and setup (via telephone and email).

*Note: 21.5 inch touch-screen monitor is included with each purchase. A computer must be purchased locally.*

**Computer Requirements:** Pentium 4 or equivalent (minimum) Core 2 Duo or faster (recommended for optimal performance), 512 meg RAM (minimum), 2 gig RAM or higher (recommended), Windows XP, Windows Vista (32 bit), or Windows 7 (32 bit), all Microsoft Service Packs and Critical Updates must be applied, 3 available USB ports (minimum), Internet connection (strongly recommended), and surge protector.
Giles Scientific offers the option for customized systems. Software modules can be combined or customers can add software modules in the future.

## Modular Options

<table>
<thead>
<tr>
<th>Software Module</th>
<th>Catalog No.</th>
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<tbody>
<tr>
<td><strong>BIOMIC V3 – Clinical Microbiology System</strong></td>
<td>BV3</td>
</tr>
<tr>
<td><strong>BIOMIC V3 (AST Only)</strong></td>
<td>BV3-AST</td>
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<tr>
<td>Antibiotic Susceptibility: Automatically reads and interprets antibiotic disk tests, and Etest® (bioMerieux) strips based on CLSI, EUCAST, BSAC, and other published recommendations.</td>
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<tr>
<td><strong>BIOMIC V3 (ID Only)</strong></td>
<td>BV3-ID</td>
</tr>
<tr>
<td>Organism Identification: Automatically reads and interprets ID panels including API® (bioMerieux), RapID™ (Remel), and Crystal™ (BD).</td>
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</tr>
<tr>
<td><strong>BIOMIC V3 (CC Only)</strong></td>
<td>BV3-CC</td>
</tr>
<tr>
<td>Colony Counting and Chromogenic Agar: Automatically counts bacteria and yeast colonies and viral plaques on plates up to 150mm, reading and interpretation of chromogenic agar plates.</td>
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| **TRINITY V3 – Industrial Microbiology System**       | TV3         |
| **TRINITY V3 (AA Only)**                              | AAV3        |
| **TRINITY V3 (CC Only)**                              | TV3-CC      |
| Colony Counting and Chromogenic Agar: Automatically counts bacteria and yeast colonies and viral plaques on plates up to 150mm, reading and interpretation of chromogenic agar plates. |             |

### Add Software Module to Current System

<table>
<thead>
<tr>
<th>Add AST</th>
<th>AST-MOD</th>
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<tbody>
<tr>
<td>Add ID</td>
<td>ID-MOD</td>
</tr>
<tr>
<td>Add 96-Well</td>
<td>96-MOD</td>
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<tr>
<td>Add CC</td>
<td>CC-MOD</td>
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<tr>
<td>Add AA</td>
<td>AA-MOD</td>
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**PENI CYLINDER DISPENSER**

For use with TRINITY V3

This Stainless Steel Cylinder Dispenser holds 300+ cylinders and can dispense 4 or 6 cylinders. Cylinders are automatically and accurately dropped onto a Petri dish. Units may be modified for use with either glass or plastic Petri dishes.

**Material:**
Stainless Steel and Aluminum

**Dimensions:**
13 x 13 x 31 cm / 5.25 x 5.25 x 12.25 inches

**Service Contract:**
1 year warranty on parts and service. Includes installation and training assistance by email and telephone.

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**PENI CYLINDERS**

For use with TRINITY V3

For use with TRINITY V3 and the Peni Cylinder Dispenser. One box contains 100 cylinders.

**Material:**
Stainless Steel

**Dimensions:**
Inner diameter: 6mm
Outer diameter: 8mm
Length: 10mm

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**SERVICE CONTRACT**

For BIOMIC V3 and TRINITY V3

The Service Contract is available for BIOMIC V3 and TRINITY V3 Systems beginning in Year 2. Year 1 of the Service Contract is included with each system purchase. This annual fee provides a complete hardware warranty, annual software upgrade, LIS/LIMS interface support (LIS/LIMS provider may charge a separate fee), and live technical support 7 days per week from Giles Scientific.

**SOFTWARE UPGRADE**

For BIOMIC V3 and TRINITY V3

One time software upgrade to current year. This does not included the hardware warranty. This option is available for Color Vision and V3 systems only.