**G.O.A.T. User Manual**

**Goat Observation and Assessment Technology**  
*Version 1.0 – April 2025*  
**Developed by: Mean Green Solutions**  
**Client: Clean Chickens and Co. LLC**

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**1. Introduction**

Welcome to the G.O.A.T. system! This software was created to help automate the process of grading goats and assigning prices using image recognition. It's designed to be simple, user-friendly, and efficient, even for users with very little computer experience. This manual will guide you step-by-step on how to install, operate, and maintain the system.

**2. System Requirements**

To run the G.O.A.T. system, make sure your setup includes the following:

**Hardware**

* Windows computer (Windows 10 or 11) with a strong graphics card (GPU)
* 3 cameras: one positioned in front of the goat, one from the side, and one from above
* USB ports or network connections for the cameras
* Digital scale (optional, for weight input)

**Software**

* G.O.A.T. application (comes with installer)
* Python runtime (included in installation if needed)
* Pre-configured SQL database

**3. Installation Guide**

1. Insert the USB stick or download the installer from the official link.
2. Double-click the installer and follow the on-screen instructions.
3. Connect all 3 cameras to the computer.
4. Restart the computer after installation.
5. Open the G.O.A.T. application by double-clicking the icon on the desktop.

**4. Initial Setup**

The first time you open the software:

1. You will be asked to **set up the cameras**. Follow the prompts to assign each camera to its position (Front, Side, Top).
2. You'll be asked to **select where to save your data**. Use the default setting unless instructed otherwise.
3. Perform a **test capture** using the "Test Setup" button. If all 3 pictures show up, you're ready!

**5. Using the G.O.A.T. System**

This is the main part of the software, used every day.

**Step-by-Step Instructions:**

1. Enter or scan the goat's **Scrapies Tag ID**.
2. Type in the **breeder's name**.
3. (Optional) Enter the goat's **weight**.
4. Click the **"Take Picture"** button. All 3 cameras will take photos at once.
5. Wait a few seconds for the **software to analyze the images**.
6. The screen will then show:
   * The pictures taken
   * The **selection grade** (1, 2, 3 or in-between)
   * The **price** assigned to the goat
7. You now have three options:
   * **Submit**: Save the goat's information to the database
   * **Re-Take**: Take new pictures if the first ones weren’t good
   * **Delete**: Cancel the process entirely

TIP: You will only use the mouse and keyboard a few times per goat. Most steps are automatic.

**6. Grading and Pricing Process**

The system uses AI to grade goats based on their shape, fat, and overall build. Grades range from:

* **Section 1**: Excellent quality
* **Section 2**: Good quality
* **Section 3**: Lower quality
* **Hybrid Grades**: In-between grades like 1-2 or 2-3

Price is calculated using the grade and weight.

**7. Accessing and Managing Goat Records**

All goat entries are stored in the built-in database.

**To view goat records:**

1. Click on the **"Database"** tab.
2. Use the **search bar** to find a goat by tag, breeder, or date.
3. Sort columns by clicking the top row (e.g., Grade, Date, Price).

**To export records:**

* Click the "Export" button to save as a spreadsheet (CSV).

**8. Manual Uploads and Notes**

Sometimes you may want to add extra pictures or notes, such as organ health or flukes seen after slaughter.

**To add extra data:**

1. Go to the **Database tab** and find the goat.
2. Click **"Edit"**.
3. Use the **"Add Image"** or **"Add Note"** buttons.
4. Click **Save Changes**.

**9. Troubleshooting Guide**

| **Problem** | **Solution** |
| --- | --- |
| Camera not detected | Check USB cable or restart the program |
| Image looks blurry | Clean the lens and ensure proper lighting |
| No grade appears | Make sure goat is fully visible in all 3 pictures |
| Software crashes | Restart the computer. If problem continues, call support |

**10. Cleaning and Maintenance**

* **Cameras**: Wipe lenses with a clean cloth every day
* **Computer**: Keep it away from dust, dirt, and moisture
* **Database**: Backup weekly (instructions in Settings)

Reminder: Clean the camera lenses at the end of each workday to prevent dirty images

**11. Support and Contact Information**

If you need help, please reach out to the development team:

**Project Team: Mean Green Solutions**

* **Albert Kileo** (Project Manager & Technical Lead)  
  Email: [AlbertKileo@my.unt.edu](mailto:AlbertKileo@my.unt.edu)
* **Jack Follett**  
  Email: [JackFollett@my.unt.edu](http://JackFollett@my.unt.edu)
* **Jesus Chavez**  
  Email: [JesusChavez2@my.unt.edu](http://JesusChavez2@my.unt.edu)

**Client Contact**  
Rebecca Wierschke  
Email: [rebeccawierschke@gmail.com](http://rebeccawierschke@gmail.com)

Thank you for using G.O.A.T. This system was built to make your job easier, faster, and more accurate. If anything seems unclear or too complicated, don’t hesitate to ask for help. We’re here for you!