

# APOGEE

By TruGolf



# CONTENTS

## GETTING STARTED

|                    |   |
|--------------------|---|
| Welcome to APOGEE® | 1 |
| Packaged Items     | 2 |

## HARDWARE

|              |      |
|--------------|------|
| Overview     | 3-4  |
| Installation | 5-10 |
| Wiring       | 11   |

## GET ACQUAINTED

|                |       |
|----------------|-------|
| APOGEE®        | 12-14 |
| Voice Commands | 15-16 |

## SOFTWARE

|                     |       |
|---------------------|-------|
| Create User Profile | 17-18 |
|---------------------|-------|

## APOGEE® INTELLIGENT DASHBOARD (AID)

|          |    |
|----------|----|
| Overview | 19 |
| Status   | 20 |
| Tools    | 21 |
| Support  | 22 |

## CONTACT CUSTOMER SUPPORT

Monday-Friday  
9:00 am-5:00pm MST  
Toll Free: 877-711-6691  
Direct Line: 801-677-1123  
<https://trugolf.com/support>



Designed and Assembled in the USA

# GETTING STARTED

## WELCOME TO APOGEE®

Before installation, please review the included components and familiarize yourself with the Launch Monitor.

To complete installation, you will need:

- **Ladder**
- **Plumb Bob**
- **Measuring Tape**
- **Pencil**
- **Drill**
- **Stud Finder**
- **1/2" Drill Bit**

*(For Included Drywall Anchors)*

For users mounting APOGEE® in custom, or non-simulator bay environments, additional hardware may be required to achieve optimal launch monitor placement.

# GETTING STARTED

## PACKAGED ITEMS

### HARDWARE

1. APOGEE® Launch Monitor
2. APOGEE® Ceiling Mount

### PAPER

3. APOGEE® Calibration Template
  - Use Template to complete calibration inside the APOGEE® Intelligent Dashboard Software
4. "Hey APOGEE®," Voice Command Instruction
  - User Guide to the Voice Command feature
5. APOGEE® User Guide

### CABLES

7. CAT6 Cable (50')
8. USB to CAT6 Network Adapter
9. Power Cable

### TOOLS AND EQUIPMENT

10. Laser Level
11. Mounting Hardware
  - Wood Screws
  - Drywall Anchors
  - Fender Washer

### MISCELLANEOUS

12. Reflective Dots

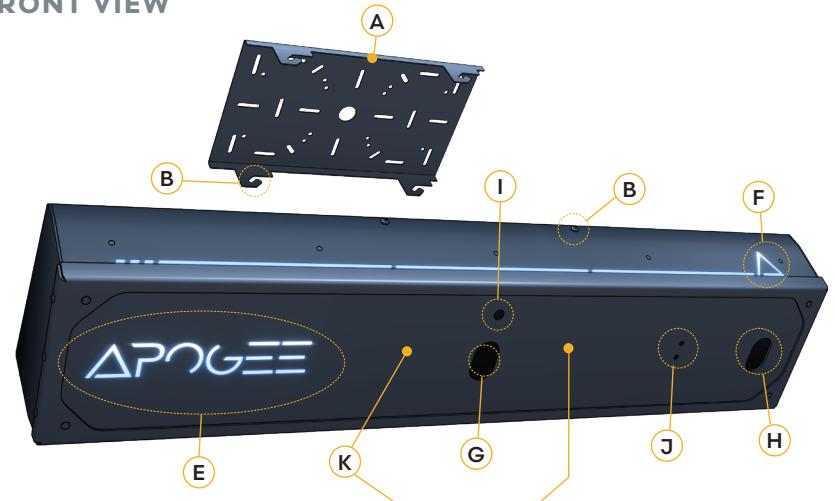
# HARDWARE

## OVERVIEW

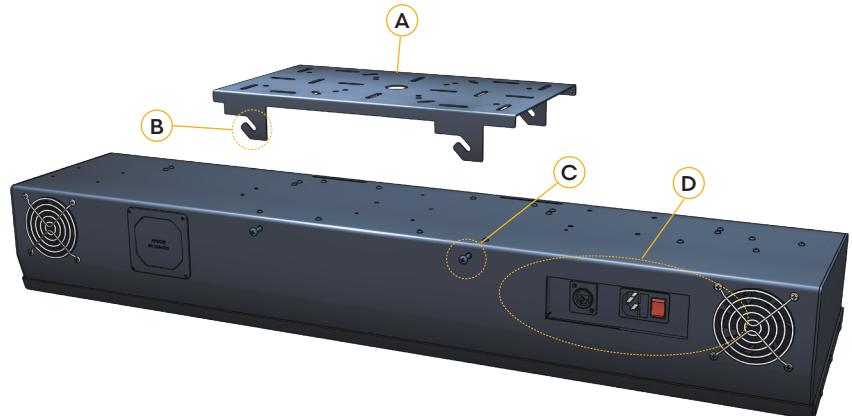
- A.** Ceiling Bracket
- B.** Mounting Slot
- C.** Mounting Screws
- D.** Cable Inputs
- E.** System Status Indicator (SSI)  
*The APOGEE® logo color will change according to status*
- F.** System Connection Indicator (SCI)  
*The SCI lightbar will change color upon error*
- G.** Center Camera
- H.** Offset Camera
- I.** APOGEE® Laser Indicator  
*Projects ball placement pattern on ground*
- J.** Microphone
- K.** Infrared Lighting System  
*These are internal, with the light passing through the acrylic faceplate.*

# HARDWARE

## FRONT VIEW



## BACK VIEW



# HARDWARE

## INSTALLATION

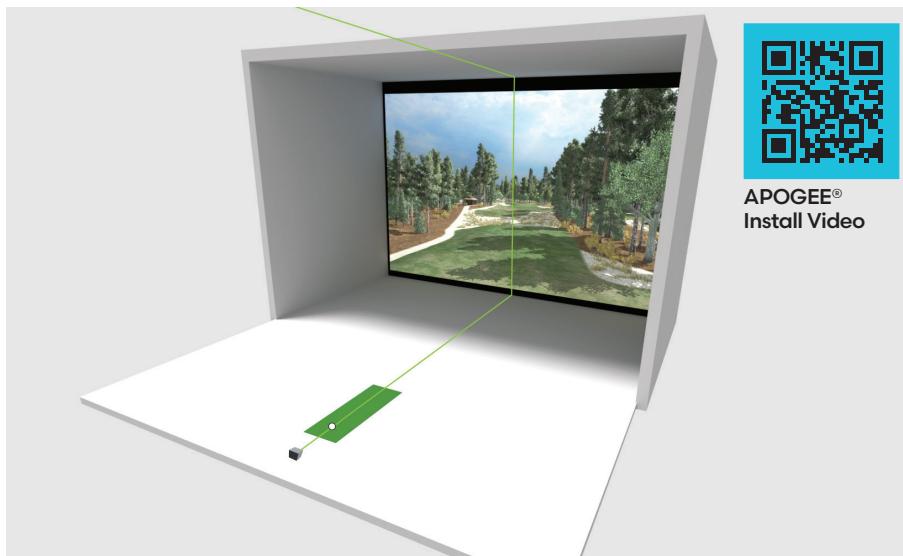
APOGEE® should be installed on a flat, level surface between 9' - 10' feet above the hitting surface. The APOGEE® mount is compatible with universal projector mounts for ceiling heights over 10' in height. For secure installation, wooden backing is recommended. Fasteners are included for installations into drywall or wood.

Installation starts with knowing where you want your Tee Box to be, and installing APOGEE® in the correct position to accommodate it.

1

*To identify the centerline of your simulator, place a reflective dot at the center of your Tee Box (desired hitting area) and another at the center point of your screen. Align the included laser level with the two dots to show the centerline of your simulator. In most simulators, this will be in the center of your space. The laser level needs to be placed far enough away so that the laser shows on the ceiling above your tee box area.*

**NOTE** If your mat is not centered in your simulator space, the centerline at the screen should match the offset of the mat.



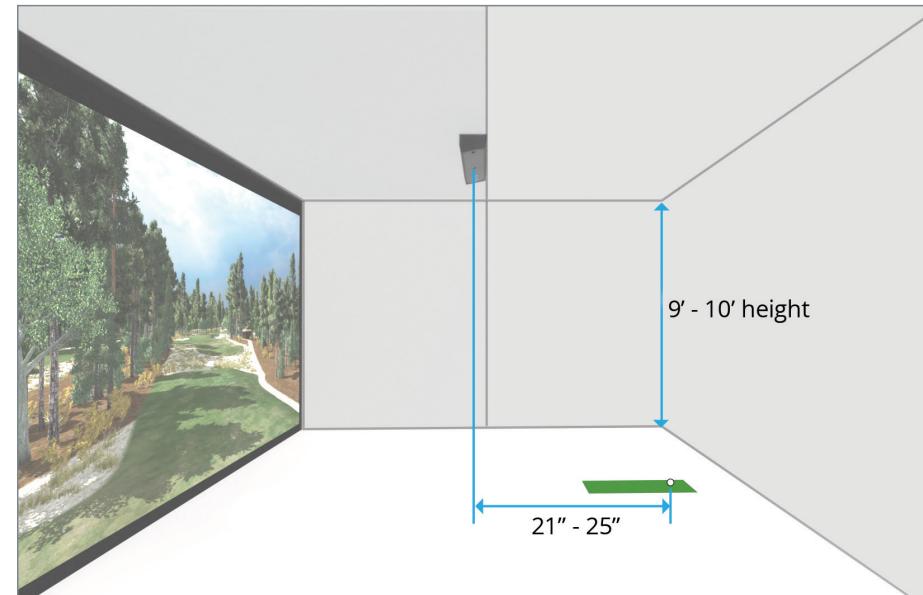
# HARDWARE

## INSTALLATION CONTINUED

2

Measure the distance from the turf to ceiling and use the table below to find your "Tee to APOGEE®" distance. Using your "Tee to APOGEE®" distance, measure forward from the center of your desired tee location and place a mark on the floor with one of the included Reflective Dots.

| Ceiling Height<br>in Centimeters | Tee to APOGEE® | Ceiling Height<br>in Inches | Tee to APOGEE® |
|----------------------------------|----------------|-----------------------------|----------------|
| 274-279                          | 53             | 108"-110"                   | 21"            |
| 279-287                          | 56             | 110"-113"                   | 22"            |
| 287-292                          | 58             | 113"-115"                   | 23"            |
| 292-300                          | 61             | 115"-118"                   | 24"            |
| 300-305                          | 64             | 118"-120"                   | 25"            |

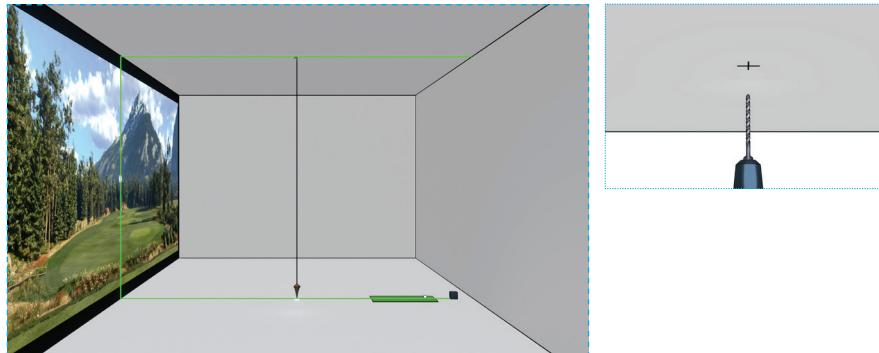


# HARDWARE

## INSTALLATION CONTINUED

3

Using a plumb bob and the reflective dot on the ground, place a corresponding mark on the ceiling and drill a pilot hole for the APOGEE® mount.



4

The APOGEE® Mount is attached to APOGEE®. Detach it from APOGEE® by loosening the 2 screws on the back.

**DO NOT REMOVE SCREWS**



# HARDWARE

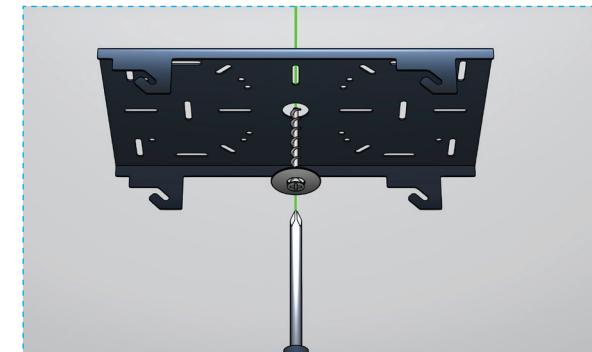
## INSTALLATION CONTINUED

5

Using an included screw and fender washer, attach the APOGEE® Mount by fastening the center hole of the mount in line with the mark on your ceiling.

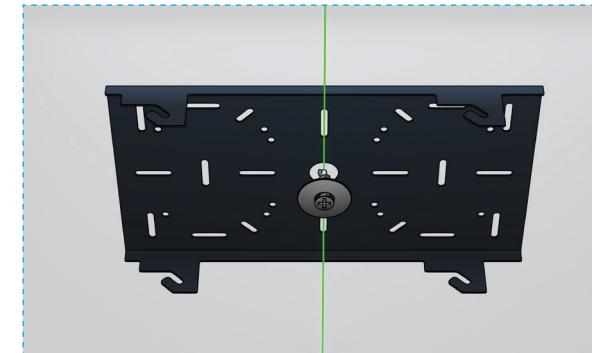
**DO NOT TIGHTEN FULLY AT THIS POINT**

*Note: The mounting bracket is omni-directional, so the hooks on the mount may face either the left or the right side of the simulator space.*



6

To ensure the mount is parallel to the screen, rotate and adjust the mount until the laser bisects all center holes before tightening the center screw.

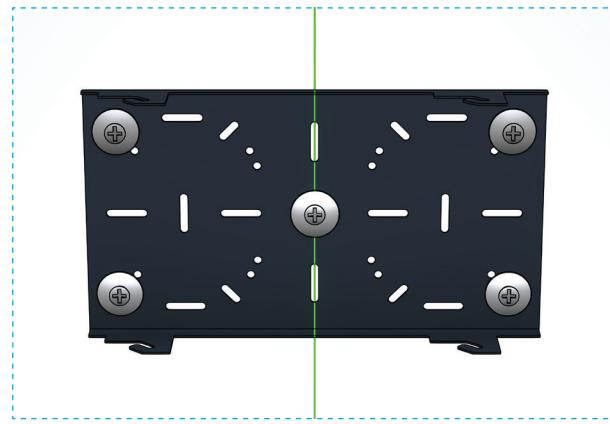


# HARDWARE

## INSTALLATION CONTINUED

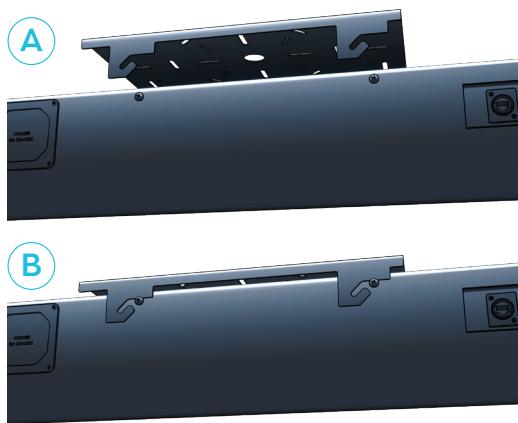
7

Add additional screws to secure the APOGEE® Mount to the ceiling.



8

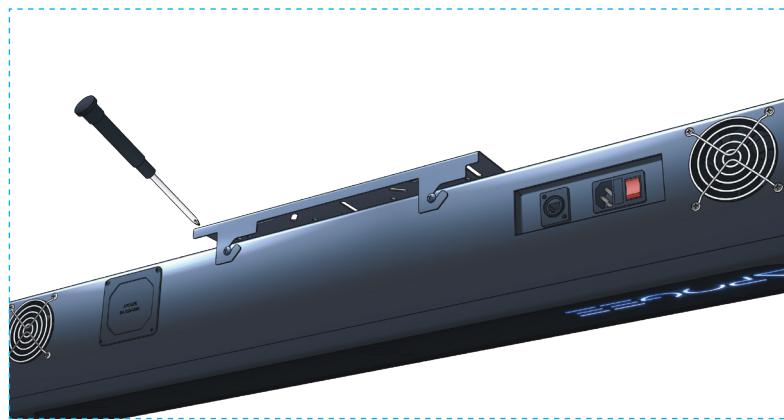
Slide APOGEE® up into the mount and then over and down into the slotted section.



9

9

Tighten the 2 screws in the back to secure APOGEE® to the mount.



## WIRING

Connect the power and the network cable into the back of the APOGEE® unit.



10

# HARDWARE

## WIRING CONTINUED



# GET ACQUAINTED

## WITH APOGEE®

**APOGEE®** is a ceiling mounted, photometric Launch Monitor. It measures spin without the need for specialty golf balls and records club data without marked clubs.\* The product includes: Voice Commands, Laser Indicator, Point of Impact Replay, Auto Diagnostic and Auto Calibration.

\*Note: Some lighting environments and some custom club finishes may require a metallic sticker for accurate Club Face Angle data. However, trajectory data is derived from the measured ball characteristics.



## THE APOGEE® INTELLIGENT DASHBOARD (AID)

**THE APOGEE® INTELLIGENT DASHBOARD (AID)** - A standalone software to help owners manage their APOGEE® Launch Monitor. The system includes diagnostic and automated calibration features to make identifying and solving any technical problems simple.

**CALIBRATION** - Launches the Automated Calibration Wizard (ACW). Enabling Calibration will check installation alignment and adjust apertures for ambient light in the area. The ACW guides APOGEE® owners through any necessary next steps.

**TOOLS** - Update Firmware, Reset to Defaults, and other tools to manage your APOGEE® Launch Monitor

**STATUS** - See real-time status of network connections, the camera system, and the internal temperature of your APOGEE® Launch Monitor.

**SUPPORT** - View and Submit Logs to TruGolf Support Team. Your contact information will be connected with these reports.

# GET ACQUAINTED

## WITH APOGEE®

**“HEY APOGEE®” VOICE COMMAND** system can be enabled or disabled inside the AID. This proprietary voice command system has been designed to help increase the speed and convenience of your indoor golf round. The system is activated upon hearing “HEY APOGEE®”.

**APOGEE LASER INDICATOR** can be enabled or disabled inside the AID. This visual aid shows users appropriate places to tee the ball for the most accurate readings.

**TEE BOX** is the acceptable hitting area where users can place the ball - Tee Box measures 10" W x 8" D.

**SYSTEM STATUS INDICATOR (SSI)** is the LED Indicator located on the front of the APOGEE® Launch Monitor.

- Blue – Unit is Operational.
- Red – User should launch APOGEE® INTELLIGENT DASHBOARD to check STATUS AND SUPPORT for diagnosis.

**SYSTEM CONNECTION INDICATOR (SCI)** is the LED Indicator inside the APOGEE® Text on the face plate of the APOGEE® Launch Monitor.

- Orange – System Booting.
- Yellow – Searching for Connection.
- White – Connected to APOGEE® INTELLIGENT DASHBOARD.
- Purple – Calibration in Progress.
- Blue – Connected to E6 CONNECT or E6 APEX.
- Red – Issue Found. Users should launch APOGEE® INTELLIGENT DASHBOARD to check STATUS AND SUPPORT for diagnosis.

# GET ACQUAINTED

## WITH APOGEE

### CENTER CAMERA

This is the camera in the center of the APOGEE® Launch Monitor.

### OFFSET CAMERA

This is the camera offset from the center of the APOGEE® Launch Monitor.

### MICROPHONE

The Microphone is located in the center of the APOGEE® Launch Monitor.

### NOTES

APOGEE® requires one of these compatible turf types for the TEE BOX.

- TruGolf Hitting Mat.
- Country Club Elite.
- For additional compatible Turf Solutions, please contact your Sales Representative.

### E6 CONNECT SYSTEM REQUIREMENTS

The Minimum System Requirements are:

- Intel i5 Processor
- 8GB RAM
- Nvidia 1070
- 25GB of Hard Drive Space
- Windows 10 64-Bit
- Internet Connection

### E6 APEX SYSTEM REQUIREMENTS

The Minimum System Requirements are:

- Windows 10 64-bit
- Intel i7- 10th Gen Processor or newer.
- 16GB RAM 2400Mhz DDR4 or better
- m.2 NVMe SSD 256GB or better
- NVIDIA GeForce RTX 3060 with 12 GB VRAM or better
- WiFi 5 (802.11AC)
- Full USB 3 connectivity
- Gigabit Ethernet

# USING VOICE COMMANDS

1 Say "HEY APOGEE" to activate Voice Commands.

2 Make a request using one of the following **Commands** from the provided list.

## COMMANDS

○ E6 APEX Exclusive

○ E6 CONNECT Exclusive

### Access Menus

|                           | Description              |
|---------------------------|--------------------------|
| “CLUB MENU / CLUB SELECT” | Shows Club Select Menu   |
| “ANALYZER”                | Shows Post Shot Analysis |
| “POST SHOT”               | Shows Post Shot Analysis |
| ○ “VIDEO REPLAY”          | Shows Video Replay       |
| ○ “DATA SPREADSHEET”      | Shows Data Spreadsheet   |
| “SCORECARD”               | Shows Player’s Scorecard |
| ○ “WEATHER”               | Activates Weather Widget |
| ○ “TOPVIEW”               | Toggles Topview          |

### Basic Actions

|                    |                      |
|--------------------|----------------------|
| “CANCEL”           | Cancel Voice Command |
| “RESUME”           | Resume Play          |
| “YES / YEAH / YEP” | Confirmation - Yes   |
| “NO / NOPE”        | Confirmation - No    |

# USING VOICE COMMANDS

### In-Game Actions

|  |                              |
|--|------------------------------|
| “NEXT HOLE”  | Progresses User To Next Hole |
| “MULLIGAN”   | Initializes A Mulligan       |
| “REHIT”  | Sets Up Previous Shot        |
| “HOLE PREVIEW”   | Initializes Drone Flyover    |
| “PICKUP”   | Pickup                       |
| “CHANGE CAMERA AIM...<br>... LEFT   ... RESET PIN<br>... RIGHT ... AT PIN” | Aim Camera                   |

### Club Selection

|                    |                |                     |
|--------------------|----------------|---------------------|
| “DRIVER”           | ○ “ONE IRON”   | ○ “49 DEGREE WEDGE” |
| ○ “1 WOOD”         | ○ “TWO IRON”   | ○ “50 DEGREE WEDGE” |
| ○ “2 WOOD”         | ○ “THREE IRON” | ○ “51 DEGREE WEDGE” |
| “3 WOOD”           | “FOUR IRON”    | ○ “52 DEGREE WEDGE” |
| ○ “4 WOOD”         | “FIVE IRON”    | ○ “53 DEGREE WEDGE” |
| “5 WOOD”           | “SIX IRON”     | ○ “54 DEGREE WEDGE” |
| ○ “6 WOOD”         | “SEVEN IRON”   | ○ “55 DEGREE WEDGE” |
| ○ “7 WOOD”         | “EIGHT IRON”   | ○ “56 DEGREE WEDGE” |
| ○ “8 WOOD”         | “NINE IRON”    | ○ “57 DEGREE WEDGE” |
| ○ “9 WOOD”         | ○ “1 HYBRID”   | ○ “58 DEGREE WEDGE” |
| ○ “PITCHING WEDGE” | ○ “2 HYBRID”   | ○ “59 DEGREE WEDGE” |
| ○ “LOB WEDGE”      | ○ “3 HYBRID”   | ○ “60 DEGREE WEDGE” |
| “GROUND WEDGE”     | “4 HYBRID”     |                     |
| “SAND WEDGE”       | ○ “5 HYBRID”   |                     |
|                    | ○ “6 HYBRID”   |                     |
|                    | ○ “7 HYBRID”   |                     |
|                    |                | “PUTTER”            |

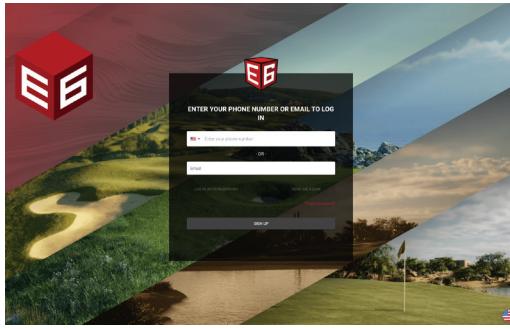
# SOFTWARE

## CREATE USER PROFILE

1

Create your E6 Profile at: [portal.e6golf.com](http://portal.e6golf.com) – When first setting up your E6 Profile, we recommend that you use an email address that you access regularly. This profile contains permissions and licenses for your software and hardware device.

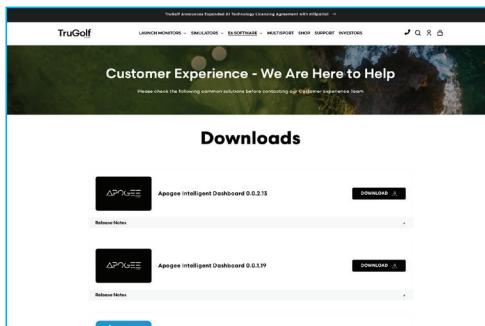
- a. Navigate to: [portal.e6golf.com/settings/licenses](http://portal.e6golf.com/settings/licenses)
- b. Select **REDEEM KEY**
- c. Enter Your Product Key



2

Visit: [www.trugolf.com/pages/support](http://www.trugolf.com/pages/support) to download and install the latest versions of:

- a. APOGEE® INTELLIGENT DASHBOARD (AID)
- b. E6 CONNECT



# SOFTWARE

## CREATE USER PROFILE

3

Once your downloads are complete, launch the **APOGEE® INTELLIGENT DASHBOARD** and update to the latest Firmware.



4

Following the installation of the latest Firmware, use the **APOGEE® INTELLIGENT DASHBOARD** to calibrate your APOGEE® Launch Monitor.



# APOGEE® Intelligent Dashboard (AID)

**APOGEE® Intelligent Dashboard** Is a standalone software to help owners manage their APOGEE® Launch Monitor. The system includes diagnostic and automated calibration features to make identifying and solving any technical problems simple.



## CALIBRATION

Launches the Automated Calibration Wizard (ACW). Enabling Calibration will check installation alignment and adjust apertures for ambient light in the area. The ACW guides APOGEE® owners through any necessary next steps.

## STATUS

See real-time status of network connections, the camera system, and the internal temperature of your APOGEE® Launch Monitor.

## TOOLS

Manage APOGEE® updates and personal preferences.

## SUPPORT

View and Submit Logs to TruGolf Support Team.  
Your contact information will be connected with these reports.

## HOW-TO VIDEOS

Collection of videos to help you manage your device.

# APOGEE® Intelligent Dashboard (AID)

## STATUS



## NETWORKING SYSTEM

- Internet Connection - connected/disconnected.
- APOGEE® Connection - connected/disconnected.

## CAMERA SYSTEM

- Center Camera- Online/offline status.
- Offset Camera- Online/offline status.
- Cooling System Fan 1 and Fan 2- Online/offline status.
- Temperature- Lists the live internal temperature of the APOGEE® device.

# APOGEE® Intelligent Dashboard (AID)

## TOOLS



## SYSTEM TOOLS

- FIRMWARE UPDATE**- Allows the user to update to the newest version of APOGEE® firmware or revert to previous firmware version.
- DEVICE RESTART**- Reboots the APOGEE device.
- RESET TO DEFAULTS**- Resets APOGEE's calibration settings to factory defaults.



## SYSTEM CONTROLS

- DEVICE WIFI SELECT** - Connects APOGEE® to your WiFi to enable connection to mobile devices.
- Laser Launchpad- Turn the Laser off/on.
- APOGEE® Voice Assistant- Turn the APOGEE® Voice Assistant off/on.

# APOGEE® Intelligent Dashboard (AID)

## SUPPORT



## SYSTEM LOG

- REFRESH FEED** - Downloads and displays the latest logs from APOGEE.
- SUBMIT TO TRUGOLF** - Submits data logs to the TruGolf Support Team, making them available for review upon submission of a support ticket.
- CLEAR LOGS** - Clears the logs currently stored on your computer.

## SUPPORT INFORMATION

- REVIEW DOCUMENTATION** - Opens the **DOCUMENTATION** section of the APOGEE CONTROL CENTER.
- LAUNCH SUPPORT WEBSITE** - Opens an internet browser and pulls up [www.trugolf.com/support](http://www.trugolf.com/support).

# APOGEE CLUB FACE STICKERS

## DRIVER PLACEMENT

### CLUB FACE STICKER

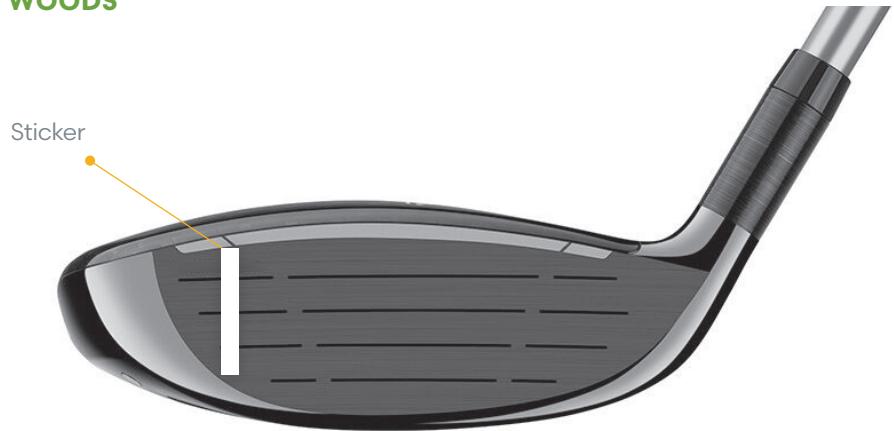
- Place each sticker vertically on your club face such that the sticker runs perpendicular to the horizontal grooves or alignment markers. The sticker should be placed near the toe of the club, and adhered in a location where the entirety of the sticker can lay flat on the club face without wrapping over the top or bottom edge.



# APOGEE CLUB FACE STICKERS

## WOODS AND IRON PLACEMENT

### WOODS



### IRONS





# TruGolf®

Est. 1982

## CONTACT CUSTOMER SUPPORT

Monday-Friday • 9:00 am-5:00 pm MST

Toll Free: 877-711-6691 • Direct Line: 801-677-1123

<https://trugolf.com/support>

