

# G156AD-SUIT

15.6" Intel® Core™ i5-1235U Rugged Ground Control Station Suitcase



## KEY FEATURES

- Dust, and water-resistant design (IP65). MIL-grade drop, Shock and vibration
- Packed with 2 replacement batteries and boasting a long battery life, this is a must-have tool for serious UAV pilots.
- Packed in rugged and waterproof case for better protection and easy carrying solution

## INTRODUCTION

Winmate Rugged Portable Controller Series is a reliable and durable solution for ground control applications, featuring a 15.6" display and powered by an Intel® processor. Designed with an IP65-rated dust and water-resistant build and MIL-grade protection against drops, shocks, and vibrations, it ensures performance in harsh conditions. Equipped with two replacement batteries for extended use and packed in a rugged waterproof case, it offers superior portability and protection, making it an essential tool for UAV pilots and field operations.

## OVERVIEW

### SURVIVING MIL STANDARDS



### Surviving MIL Standards

Winmate's G156AD-SUIT rugged portable controller meets MIL-STD-810H standards, ensuring durability under extreme conditions like temperature changes, humidity, vibration, and shock. MIL-STD-461F addresses electromagnetic compatibility, preventing interference with other systems and shielding devices from external electromagnetic fields. Together, these standards enhance reliability for military applications.

### Ultimate Protection with G156AD-SUIT Cases

The G156AD-SUIT with the protector cases is built to endure extreme environments. These cases are watertight, crushproof, and dustproof, providing durable protection. With reinforced double-throw latches and easy carrying options, they ensure equipment is secure and accessible for professionals in demanding situations.



### RELIABLE POWER FOR UNINTERRUPTED OPERATION



### Reliable Power for Uninterrupted Operation

The Winmate G156AD-SUIT rugged portable controller features a dual battery that supports for whole day work. This provides exceptional reliability and convenience, enabling an outstanding flying experience. Pilots can focus on capturing stunning aerial footage without the concern of power limitations.

### Robust and Water-Resistant (IP65) Protection

The G156AD-SUIT offers IP65 protection against dust and water, making it suitable for tough and potentially hazardous environments. Its durable design ensures consistent performance in harsh conditions, allowing professionals to focus on their tasks without worrying about equipment reliability.



## SPECIFICATIONS

### Display

<b>Bonding</b>	Optical Bonding for Sunlight Viewability	<b>Touch / Glass</b>	Projected Capacitive Multi Touch Screen Protection Glass (Optional) Anti-glare Coating (Optional)
<b>Resolution</b>	1920x1080	<b>Size</b>	15.6 inches
<b>Contrast Ratio</b>	800:1	<b>Panel Brightness</b>	2000.0 nits
<b>View Angles</b>	89,89,89,89	<b>Active Area</b>	344.16x193.59 mm

### System Specification

<b>Processor</b>	Intel® Core™ i5-1235U 3.3GHz(up to 4.40 GHz)	<b>Memory</b>	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional)
<b>Storage</b>	1 x M.2 2280 M-Key NVMe SSD 128GB 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional) 1 x SATA III for 2.5" SSD/HDD up to 2TB (Optional)	<b>Ethernet controller</b>	2 x Intel® Ethernet Controller
<b>Security</b>	TPM 2.0	<b>Operating System</b>	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)
<b>Buzzer</b>	nan		

### Mechanical

<b>Dimension</b>	502 x 401 x 188 mm	<b>Weight</b>	14.6kg
<b>Cooling System</b>	Fan Design		

### IO Ports

<b>USB Port</b>	1 x waterproof connector for USB 3.0 (typeA)	<b>Serial Port</b>	1 x M12 waterproof connector for RS232
<b>Video</b>	1 x waterproof connector for HDMI output	<b>Audio</b>	2x Speakers
<b>LAN</b>	1 x waterproof Giga LAN RJ45 connector		

### Environment

<b>Operating Humidity</b>	10% to 90% RH, non-condensing	<b>Operating Temperature</b>	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
<b>Storage Temperature</b>	-30°C to 70°C (-22°F to 158°F)	<b>Shock</b>	MIL-STD-810H Method 516.8 Procedure I
<b>Vibration</b>	MIL-STD-810H Method 514.8 Procedure I	<b>IP rating</b>	IP65
<b>Length</b>	nan		

### Certification

<b>Certification</b>	CE, FCC
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### Control

<b>Button</b>	2x joystick 3x roller switch 2x 2 band toggle switch 6x button 1x OSD control 1x keyboard and touch pad
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### Power

<b>Power Rating</b>	19V DC
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### Accessory

<b>Accessory</b>	19V Adapter and Power Cord
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## DIMENSIONS UNIT:MM

## NOTE

1.This is a simplified drawing and some

components are not marked in detail.  
 2. Please contact our sales representative if you need further product information.  
 3. All specifications are subject to change without prior notice.  
 4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.

