



# Interface Control Document

## **PREDATOR 150 MkIII**

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General information  
Mechanical ICD  
Electrical ICD  
Mounting Instructions

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*Notice: Notes provide helpful information.*

## Revision History

DOCUMENT VERSION	DATE	PAGE NUMBER	CHANGE DESCRIPTION
1.0.	01/14/22	NA	First release.

## Related Documents

DOCUMENT VERSION	DOCUMENT ID	DOCUMENT NAME
V1.0	atm-DATASHEET-2022-01-PREDATOR_150_MkIII_V1.0	DATA SHEET
V1.0	atm-MAN-2022-01-PREDATOR_150_MkIII_V.1.0	USER MANUAL
V0.5.0+beta1	atm-CP-V0.5.0+beta1-2022	ATMOLAB GIMBAL COMMUNICATION PROTOCOL

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## LISTS OF ACRONYMS AND GLOSSARY

<i>PREDATOR 150 MkIII</i>	<i>synonyms used: gimbal, unit, system</i>
<i>User</i>	<i>synonyms used: operator, customer</i>
<i>EO sensor</i>	<i>Electro-Optical sensor</i>
<i>AOV</i>	<i>Angle of View</i>
<i>LRF</i>	<i>Laser Range Finder</i>
<i>LWIR</i>	<i>Long Wave Infra-Red thermal camera module</i>
<i>MPEG</i>	<i>An international standard for encoding and compressing video images</i>
<i>LAN</i>	<i>Local Area Network</i>
<i>WAN</i>	<i>Wide Area Network</i>
<i>CG</i>	<i>Center of Gravity</i>
<i>VDC</i>	<i>Voltage Direct Current</i>
<i>IP</i>	<i>Ingress Protection or Internet Protocol</i>
<i>GND</i>	<i>Ground or GND is where the electrical level is at 0 Volts</i>
<i>GCS</i>	<i>Ground Control Station</i>
<i>RF signals</i>	<i>Radio Frequency signals</i>

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# 1. GENERAL INFORMATION

## 1.1 INTRODUCTION

PREDATOR 150 MkIII is a compact and lightweight multi-sensor 3-axis mechanical stabilized optical system designed for moving platforms which are exposed to unwanted vibrations and/or operate in a harsh environment. Composed of a high zoom day/low light FULL HD camera, high-resolution Radiometric thermal camera and a laser range finder. The gimbal can provide perfect aerial, ground or marine vehicle optical stabilized image results. PREDATOR 150 MkIII is a unique multi-axis stabilized system, designed for top performance in all sensor positions and platform angles.