



VBN 1.0

AUTOPILOTS

VISUAL BASED NAVIGATION FOR UAV & EVTOL

Integrated visual navigation equipment for DAA and GNSS denied navigation.

Developed in compliance with DO178-C, DO254 and DO160-G aviation standards for UAV and eVTOL certification.

ADVANCED NAVIGATION SYSTEM



DETECT & AVOID

Stereoscopic computer vision for obstacle detection & characterization



GNSS DENIED NAVIGATION

SLAM processing for position triangulation in GNSS denied environments



UAM CERTIFICATION

Deterministic technologies and compliance with DO178C and DO254



MAIN FEATURES

Navigation	Positioning & attitude
DAA	Obstacle detection and identification
Stereoscopic	Dual camera for advanced performance
Integration	Embedded camera
Software	DAA or GNSS denied modules
Certification	Designed to meet aircraft certification

DETECT AND AVOID

Obstacle	Detection & recognition
Recognition	IA technology
Output	Size Speed Direction Position Identification
Position	Relative or absolute
IFF	Identification Friend or Foe
Target	Moving or static object follow

GNSS DENIED NAVIGATION

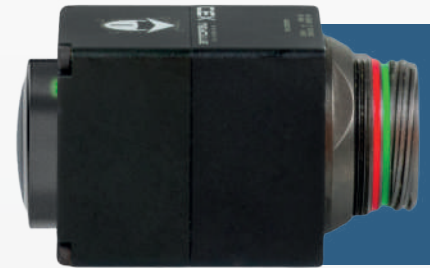
Position	Absolute positioning
Altitude	AGL estimation
Attitude	Yaw, pitch & roll
Technology	SLAM
Maps	Not required

SAFETY & CERTIFICATION

Software	DO178C
Hardware	DO254
Environmental	DO160
DAA	DO365B
Protections	ESD, overtemperature, short circuit, RP
Robust Manuf.	ATR, DDP & DoD ESS

GENERAL

I/O	CAN Bus RS232 RS485
Conector	Circular rugged
Power Input	6.5 - 36VDC 10W Redundant power input
Construction	Anodized aluminum IP67
Temperature	-40 to 60°C
Weight	110g



[P005345] Veronte Autopilots: VBN 1.0
*Draft datasheet. Specifications may vary.