Aries Defense

NEOS™

Designed to enhance the operational efficiency of uncrewed air, ground or water based operational platforms. By utilizing the power of the Aries OverWatch™ DogBone, NEOS™ can provide battlefield commanders with multiple video feeds over tactical networks.

FEATURES

sUAS Flexibility
Designed to be universally compatible with all platforms
Tested and validated with R80D SkyRaider™, SkyRanger™ R70, Black Hornet, Puma, SwitchBlade, Skydio, Stalker, PD-100, DJI, Parrot, Hoverfly.

Universal Video Input
USB 2.0 Input convertible via custom cable from USB-C, HDMI, BNC etc.

Tactical MANET Radio Compatible
Aries is radio agnostic and can interface with all the major MANET radios.

Satcom, LTE, Wi-Fi, Laser Data Radio Compatible
In addition to interfacing with radios all Aries DogBones are compatible with many other data networks.

TAK Enabled
TAK Apps provide turnkey system giving the operator instant access to the camera in a user-friendly, field proven, alerting system that is tablet and mobile device viewable. This distributes the video to any user on the network. WinTAK, MCH, APASS and other standalone apps.

Low SWaP-C
Man wearable ruggedized anodized aluminum enclosure – very small size and weight with very low power requirements at 5 volts.

EMCON
No Wi-Fi or Bluetooth to avoid detection.

USE CASES

Uncrewed Vehicle Operations

Surveillance and Reconnaissance

FIRES Support

Forward Observer Enhancement

FOB Perimeter Security

Asset Monitoring

Force Protection

Situational Awareness

POWERED BY ARIES

NEOS™

CIVILIAN

Enclosure Dimensions: 3.24" x 3.5" x 1.0"
Power Requirement: 5 volts at 3 amps
Enclosure Weight: 184 grams
Network: Ethernet Standard
Power: Barrel Adapter
Video Input: USB A Standard
H.264, MJPEG, AVC, Analog (w/ Aries Peanut Cable)
OS: Linux Based Aries OS
Board: Aries Board
EMCON: No Wi-Fi or Bluetooth hardware or software
Output Video Stream: MJPEG over HTTP via TCP
Video Quality: Adjustable 1 − 99% compression
Video Framerate: Adjustable 1 − 20 FPS
Video Resolution: Adjustable up to 360 x 480
Full Remote Settings Customization
Alert Trigger Threshold: Adjustable 1 − 5000 pixels
IP Rating: Not Qualified
TRL: 9
Operating Temp: -40C to 105C

MIL-SPEC

Enclosure Dimensions: 3.52" x 4.2" x 1.3"
Power Requirement: 5 volts at 3 amps
Enclosure Weight: 302 grams
Network: Ethernet NATO STANAG (Glenair)
Power: NATO STANAG (Glenair)
Video Input: USB NATO STANAG (Glenair)
H.264, MJPEG, AVC, Analog (w/ Aries Peanut Cable)
OS: Linux Based Aries OS
Board: Aries Board
EMCON: No Wi-Fi or Bluetooth hardware or software
Output Video Stream: MJPEG over HTTP via TCP
Video Quality: Adjustable 1 − 99% compression
Video Framerate: Adjustable 1 − 20 FPS
Video Resolution: Adjustable up to 360 x 480
Full Remote Settings Customization
Alert Trigger Threshold: Adjustable 1 − 5000 pixels
IP Rating: 68
TRL: 9
Operating Temp: -40C to 105C