

# CHENEGA A-32 SEEKER ISR AIRCRAFT

DETECT, REACT, PROTECT



## THE POWER TO PROTECT

Through selected specialist partnerships, Chenega International Consulting (CIC) offers holistic protection technologies and services ranging including fixed camera and airborne surveillance into a single command and control system or Common Operating Platform (COP). This gives unparalleled control and visualisation of our clients' operation centers and provides outstanding control and visualisation for day-to-day security management through to major emergency and crisis management exercises and real events.



## THE A-32 SEEKER AND PAYLOAD

The A-32 SEEKER is an innovative alternative to the traditional approach to surveillance aircraft, utilising down and up links to central stations, with adaptive payload options, long endurance, very low speed controllability, and unrivalled low operational cost and purchase costs.

Operating from unprepared airstrips, without the need for extensive support units, ability to respond at a moment's notice, short training and conversion training, the A-32 SEEKER is the ultimate package, giving commanders on the ground access to real time video imagery anywhere, ability to view sensors on the ground in the air and perform the missions of helicopters at less than 5% of the purchase and operational costs.

Equipped with our EPSILON 175 Stabilized four-sensor gimbal with MWIR payload, CIC offers our customers the smallest 4 sensor MWIR gimbal with long range continuous zoom capability.

# HOLISTIC SECURITY MANAGEMENT

Through a wide portfolio of strategic partnerships, Chenega International Consulting (CIC) offers an array of technologies and services ranging from open source intelligence analysis, specialist surveillance, and multiple surveillance feeds, integrated into a single command and control platform. Utilizing a stable of specialists drawn from the military and law enforcement sectors, CIC provides security and technical engineering consultancy so that together with our clients we can deliver risk mitigation solutions customized to prevailing threat environments and budgets.

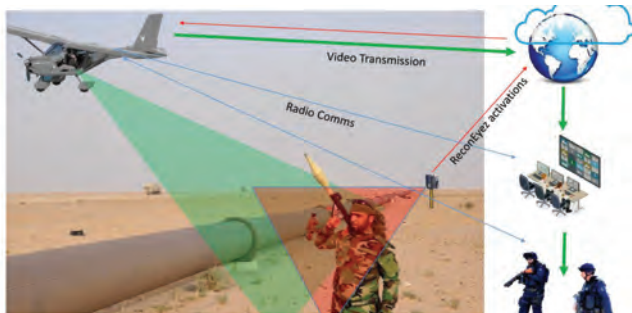


Epsilon 175 Stabilized Payload

## A-32 SEEKER ISR AIRCRAFT SINGLE OR MULTI-CREW AIRCRAFT



|                                     |               |
|-------------------------------------|---------------|
| <b>A-32 Seeker Weight (Kg)</b>      |               |
| > Take-off roll                     | under 100 m   |
| > Take-off to 50'                   | 230 m         |
| > Crosswind limit (novice)          | 14 kts        |
| > Typical cruise TAS                | 40-115 kts    |
| > Best climb rate                   | 65 kts        |
| > Best climb angle                  | 54 kts        |
| > Vne (never exceed)                | 130 kts       |
| > Stall TAS (landing configuration) | 27 kts        |
| > Flap limit speed                  | 81 kts        |
| > Vno (manouvering speed)           | 81 kts        |
| > Best glide speed (no flap)        | 59 kts        |
| > Approach speed, full flap         | 49 kts        |
| > Landing roll under                | 100 m         |
| > Landing from 50'                  | 245 m         |
| > MTOW (land plane)                 | 600 kgs       |
| > Typical empty weight              | 315-320 kgs   |
| > Fuel capacity                     | 95 lts usable |
| > Carry including fuel              | 280-285 kgs   |
| > Usable load after full fuel       | 215-220 kgs   |
| > Cruise endurance (912ULS)         | 4.5 hrs +res  |
| > Wing span                         | 9.45 m        |
| > Length                            | 6.27 m        |
| > Height                            | 2.22 m        |
| > Main gear track                   | 1.75 m        |
| > Cabin width at elbows             | 1.29 m        |
| > Operational load limits           | +4 -2 G       |
| > Tested at 650 kgs to              | +6 -3 G       |



Secret Mission Reconnaissance and Detection

## EPSILON 175 PAYLOAD

STABILIZED FOUR-SENSOR GIMBAL WITH MWIR

- System Specifications**
- > Stabilization: <math><75 \mu\text{rad}</math>
- > Weight: 2600 grams
- > Size: 175 mmx208 mm diameter
- > Environmental protection: IP66 rated
- > Operating temperature:  $-40^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- > Rotation limits:  $360^{\circ}$  continuous pan,  $-90^{\circ}$  to  $+30^{\circ}$  elevation
- > Slew rate: 120 deg/sec
- > Power: 35 W typical
- > Input voltage: 24 volts
- > Video out: Digital H.264 encoded video, analog, PAL, or NTSC
- > Control interface: RS 232, Etheret
- Onboard Image Processor Specifications**
- > Object tracking: Yes
- > Scene steering: Yes
- > Software stabilization: Yes
- > Software roll correction: Yes
- > HD Video output: 720p HD output Onboard
- > Video Recording & Snapshots: 32 Gb
- > H.264 encoding: Yes
- > Moving Target Indicator: Yes
- > Video Enhancement: Yes
- > Geo-Location Feature: Yes
- > Moving Map Software: Yes
- Laser Illuminator Specifications**
- > Class: IIIb
- > Wavelength: 830nm
- > Power output: 50mW
- EO Sensor Specifications**
- > Global shutter: Yes
- > Vertical FOV:  $37.9^{\circ}$ - $1.3^{\circ}$
- > Resolution: HD 720p (1270x720px)
- > Optical zoom: 30x
- IR Sensor Specifications**
- > Sensor name: XBn
- > Type:  $3\text{-}5\mu$  staring array, cooled
- > IR lens: 15x zoom lens 18 -275 mm
- > Vertical FOV:  $24.5^{\circ}$ - $1.5^{\circ}$
- > Resolution: SD (640x512px)
- > Frame rate: 30 fps
- Laser Rangefinder Specifications**
- > Class: I (Eyesafe)
- > Type: Diode laser
- > Range: Up to 5000m
- > Accuracy: Better than 1m