



## AGENT PORTABLE SURVEILLANCE SYSTEM

# FLIR APSS™

The Agent Portable Surveillance System (APSS) is a lightweight, backpackable, short-medium range, integrated kit composed of several configurable modules that maximize flexibility and changes in the CONOPS for the dismounted operator. The APSS provides detection, tracking and identification of individual and multiple targets at various ranges in a completely self-contained and self-powered package.

The APSS Kit is configurable to mission set and includes an electro optical infrared component, radar, pant tilt mechanism, stand alone power source all integrated with Cameleon Tactical Command and Control Software running on a Toughbook computer. The base configuration includes the FLIR Recon B2-FO Thermal Biocular and the FLIR R6SS Ground Surveillance Radar integrated with Cameleon Tactical Command and Control Software.

Cameleon Tactical Command and Control provides full control of the EO/IR and radar with Friend/Foe target management, tactical map, zone management, automatic slew-to-cue camera tracking and video archiving.

### FEATURES

#### INTEGRATED

FLIR R6SS Ground Surveillance Radar, FLIR Recon B2-FO, Cameleon Tactical C2 Software, rugged computer, tripod, pan and tilts, power/data module, and backpacks.

#### OPERATIONAL READINESS

The APSS can be deployed anywhere dismounted soldiers can walk to. It is designed and built for a small team to easily transport and quickly deploy. Within minutes, the team receives immediate, actionable situational awareness.

#### REDUCE COGNITIVE BURDEN

The Cameleon Command Control Software reduces the fatigue of an operator by automating essential functionality.

### APPLICATIONS

RECONNAISSANCE	BORDER PATROL
SURVEILLANCE	SECURITY
FORCE PROTECTION	CRITICAL INFRASTRUCTURE PROTECTION

### SYSTEM PARTS

1. Radar
2. Radar Cable
3. Radar Pan
4. Camera with Extender
5. Camera Pan/Tilt
6. Camera Cable
7. Pantilt Mechanism
8. Level Sensor
9. Tripod
10. Power Case
11. Power Cable
12. Control Case
13. Sensor Cable



## SPECIFICATIONS

### RANGER R6SS

Instrumented range	15,000 m
<b>Detection Range</b>	
Person	6 km
Light Vehicle	10 km
Large Vehicle	15 km
MicroUAS	N/A
MiniUAS	N/A
Small UAS	N/A
Minimum Detection Range	10 m
Scan sector	± 45° (fixed) - 360° with P/T
Vertical coverage	≥ 4°
Number of simultaneously displayed tracks	Up to 512
Electronic scan rate	2 Hz or 4 Hz
Minimum Detection Velocity (MDV)	< 0.1 m/s
<b>Accuracy</b>	
Range Accuracy	± 3 m
Angular Accuracy (azimuth)	< 0.2 degree
Angular accuracy (elevation)	N/A
<b>Power</b>	
Power consumption	85 W nominal
Operating voltage	20 - 48 VDC
<b>Overview</b>	
Size (in)	14.7" x 14.4" x 4.3" (37 x 36 x 11 cm)
Weight	≤ 23.1 lbs (10.5 kg)
Operating frequency	X-Band
Connectivity	Ethernet
Environmental	MIL-STD-461F, IP67, MIL-STD-810G, FCC/CE
<b>Other Features</b>	
Built-in GPS	Yes
Built-in compass	Yes
<b>RECON B2-F0</b>	
Sensor type	640 x 480 InSb (320 x 240 InSb option)
Number of fields of view	2
Wide FOV	10.0° h x 8.0° v
Narrow FOV	2.5° h x 1.8° v
E-zoom	Continuous to 4x
Spectral band	3-5 μm
Automatic features	Auto focus, AGC, Digital Detail Enhancement (DDE), Position Data

### RECON B2-F0 - Continued

#### Secondary Channel Imaging Performance

Sensor type	1/4" Color CCD
Pixel format	794 x 494 pixels
Digital zoom	Continuous to 4x
Sensitivity	Low light
FOVs	10.0° h x 8.0° v, optical zoom to 48°
Narrow FOV	2.5° h x 1.8° v
Spectral band	-

#### System Features

Global Positioning System (GPS)	C/A code (supports military GPS plug-in)
Digital Magnetic Compass	360° Az, +/- 90° El, 0.2° resolution
Eyesafe Laser Rangefinder (LRF)	1.54 μm, 20 km maximum range
Laser Pointer (LP)	852 nm, Class 3B, .5/30mW (optional)

#### Outputs

Video	NTSC/PAL Video, HDMI
Connector types	BNC, HDMI
Display type	Binocular, High Resolution, OLED
Image presentation	B/W, Color, Split Screen

#### Power

Power requirements	7 VDC/ 16 W (9 V to 32 VDC external)
Battery type and life	Qty 2 rechargeable D cell Lithium batteries >4.0 hours continuous and >5.0 hours in power save mode

#### Environmental

Mil-Spec	MIL-STD-810F
Operating temp	-32°C to +55°C (-26°F to +131°F)

#### Dimensions, Weight & Mounting

Dimensions	22.2 x 24.9 x 14.2 cm (8.75" x 9.8" x 5.3")
Weight	9 lbs (<4.1 kg), batteries included
Mounting	Tripod mount 1/4-20 base

#### Interfaces

Command and Control	RS 232/422
Image Download	USB (stores up to 1000 JPEGs)

#### Standard Package

Storage/transport case	Hard shell, lockable with fitted foam insert
Adapter/charger	110 VAC/220 VAC power supply
Batteries	4 each, Lithium D cells rechargeable
Lens cleaning kit	Complete cleaning kit in nylon pouch
Cables	Video cable, BA/5590 cable USB cable
Battery charger	110 VAC/220VAC input
Manual	Operator's Manual and Quick Reference Guide

#### Options

Laser pointer	830nm Class 3B 150mW
Soft case	Lightweight with padded zippered compartments
Extender 2.5x	2.5 Optical extender
Stabilization	E-Stab, Real Time
Fall-of-Shot	Calculate target offsets
Reticles	Standard and custom reticles available

\*Recon B2-F0 includes color CCD Day camera and Recon B2-DC includes uncooled thermal imager

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