



## 400 LE-1

The Explore LE Series is an affordable High Performance Surveillance system.

Suitable for applications like Search And Rescue, Law Enforcement and Border Patrol.



### Camera Combinations

The Explore LE Series offers a unique IR / TV camera combination. It is using Cooled Multiple field of view Thermal IR cameras in combination with a choice of Daylight Cameras.



### Gyro Stabilized Camera Gimbal

For stable imaging a fully digital 4-axis active gyro stabilization system compensates for the aircraft movements and vibrations.



### Reliability and Lightweight

In order to insure a reliable and lightweight gimbal solution, the Swesystem gimbals are designed and manufactured using an aluminum structure combined with composite covers



### On Screen Graphics

On Screen graphics indicating Time and Date, GPS position, etc

### System Options

- Laser Range finder
- Laser pointer
- Video Tracker
- SLASS Interface
- GPS
- Monitor

## Technical Specification

### Gimbal System



Four-Axis Active Gyro-Stabilized Gimbal  
 Stabilization Typical 25 micro Rad  
 Coverage Az 360° Continuous  
 Coverage El +20° to -120°  
 Dimension Ø400 mm (15.7 in)  
 Weight 30 kg (66 lb) (depending on configuration)  
 Power Req. 20-30 VDC, 10A



### IR Camera

Camera Flir MCT 3000  
 Detector Cooled MCT  
 Spectral Range 3-5 µm  
 Detector Resolution 640x512 pixels  
 Thermal Sensivity < 25 mK  
 Fields of View (3-FOV) WFOV 22°  
 MFOV 7°  
 NFOV 1.7°  
 Focus  
 Digital Zoom Auto and Manual  
 2x



### Typical Range Performance

Object	Detection	Recognition	Identification
Man	10.5 km	3.2 km	1.7 km
Vehicle	17.6km	7 km	3.8 km

Actual Range vary on a number of factors  
 (camera setup, environmental condition, monitors etc)



### TV Camera

Camera	FCB H11	FCB EX1000P
Type	HD (up to 1080i)	PAL / NTSC
Image Sensor	1/3" CMOS	1/4" HAD CCD
Optical Zoom	10x (50° to 5.4°)	36x (57.8° to 1.7°)
Digital Zoom	Yes	Yes
Low light mode	Yes	Yes



### Standard Configuration

Turret Camera Unit, Hand Control Unit, Interface Unit, Cable Kit

### Installation

Installation Kit - Available for most helicopters types, please enquire.