



## PROVEN AERIAL INTELLIGENCE

# SkyRanger R60

With over 100,000 hours of service the SkyRanger R60 sets the standard for real-time, secure, aerial intelligence across a wide range of mission-critical applications from clandestine tactical missions, to search and rescue operations, to commercial inspections and more. The R60 is deployed with over 20 militaries and in use with public safety and industrial operators in over 30 countries.

Rugged, reliable, and battle-tested, the R60 is man-packable and can be deployed in minutes by a single operator. A robust, IP-53-rated airframe and payloads ensure safe and reliable operations in extreme environments and inclement weather including snow and rain. With its industry-leading high wind tolerance, the R60 delivers stable operations in sustained 40 mph (65 kph) winds and gusts up to 55 mph (90 kph) so you can deploy when and where you need to.

The R60's powerful zoom and infrared imaging payloads provide secure situational awareness to both ground personnel and central command.

## FEATURES

### ADVANCED IMAGING PAYLOADS FOR LONG-RANGE ISR

Infrared and zoom imaging payloads deliver electro-optical and infrared imagery and video for versatility in day or night missions. Vector video processing software automatically tracks and tracks up to 10 moving objects within the camera's field of view and delivers real-time calculation of target heading and speed in both EO and IR.

### SECURE AND INTEROPERABLE ALL-DIGITAL NETWORKING

The R60's all-digital AES-256 encrypted data link with STANAG 4609 embedded metadata, enables interoperability with a wide range of situational awareness and command and control applications including ATAK.

### SIMPLE TABLET-BASED MISSION CONTROL SOFTWARE

Autonomous capabilities and simple touchscreen controls require minimal training for operators. Using multi-aircraft control a single operator can control up to 16 different R60 aircraft, with each aircraft executing a unique, semi-autonomous flight plan.

### COMPACT AND DEPLOYABLE IN MINUTES

The R60's patented folding airframe is easy to transport in a standard rucksack and is deployable in minutes by a single operator without tools.

## APPLICATIONS

IMMEDIATE ISR

COVERT OPERATIONS

SITUATIONAL AWARENESS

BEYOND LINE-OF-SIGHT  
RECONNAISSANCE

FORCE PROTECTION

## SPECIFICATIONS

Item Specification	
Total Length	60cm (23.6in) from motor mount to motor mount
Weight	Aircraft 2.4kg (5.3lbs) – Airframe, arms, legs, batteries, no payload Standard Pack 5kg (11lbs) – Aircraft, Base Station, HDZoom 30
Signature	
Visual Detection	Details upon request
Audio	Details upon request
Payloads	
Replaceable	Yes
Day Imager	HDZoom 30, EO/IR MK-II
Night Imager	EO/IR MK-II
Image Stills	HDZoom 30: 20 megapixels (5184 x 3888 pixels) EO: 13 megapixels (4192 x 3104 pixels) IR: (640 x 512 pixels)
Zoom	HDZoom 30: 30x optical 60x digital EO/IR MK-II: 4x digital
Field of View	HDZoom 30: 68.6° to 2.6° (30x), 1.3° (60x) EO: 58° IR: 45° (13mm) or 32° (19mm)
Video Resolution	HDZoom 30: 1080p60 H.264 HD recorded EO/IR MK-II: 640 x 512, 8.33 FPS H.264 recorded
Video Metadata	Embedded STANAG 4609 KLV metadata
Performance	
Typical Endurance*	30-50 minutes <i>*Actual flight time varies based on payload and operating conditions</i>
Max. Speed	Ground speed 50kph (31mph)
Environment	
Temperature	-30°C to 50°C (-22°F to 122°F)
Wind	65kph sustained, 90kph gusting (40mph, 55mph)
Precipitation	Weather-rated to IP-53
Data Link	
Frequency	915MHz, 922MHz, 1380MHz, 2.4Ghz + other frequencies
Radio Range	3km (1.86 miles) with standard base station 10km (6.21 miles) with directional antenna
Mission Data	AES 256 bit encryption with secure key exchange
Launch Time	3-5 minutes



SkyRanger R60 system with carrying case, payloads, battery charger, and tablet



Intuitive, tablet based GCS with optional joysticks



Vector™ Moving Target Identification available in both EO and IR

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