

## Pixel 350 HD

Gyro-stabilized Broadcast Video System



FLIR Systems' Pixel 350 HD is a camera especially tailored for the demanding airborne broadcast industry. It offers exactly what this industry needs: image quality and reliability. The Pixel 350 HD incorporates the latest generation broadcast-quality high definition imaging systems.

### Lightweight high stiffness composite body

The gimbal is built from high stiffness composite materials. The aluminum inner structure assures the lowest possible weight: an important issue when mounting the camera underneath an aircraft.

### 4 axis active stabilization

The design is four axis active gyro-stabilized based upon very low drift fiber-optic gyroscopes and a digital servo motor control system and a patented two axis linear isolator. This unique design offers outstanding stability of less than 35 micro radians, ensuring easy steering and accurate imaging independent of aircraft movements.

### Professional HDV camera

The gyro-stabilized gimbal contains Sony's HVR-V1U(E) professional HDV camera. The camera employs a 3-chip ClearVid CMOS Sensor for optimum picture quality. Coupled with Sony's Enhanced Imaging Processing which internally processes signals at 1920x1080p 4:2:2, these sensors provide high sensitivity, low noise and a wide

dynamic range to achieve breathtaking images. The camera also supports 25p/30p progressive scan modes in addition to typical 50i/60i. This camera bridges between HD and SD allowing use in any DV-based system, whether it uses the HDV, DVCAM, or DV format.

### 20x Zoom Lens

The Carl Zeiss Vario-Sonnar T<sup>®</sup> zoom lens features extra low dispersion (ED) glass and a 20 x optical zoom lens with F2.8 at the telephoto end for greater light sensitivity and long range image nova system acquisition for maximum shooting flexibility.

### Hard Disk Recording

Via the i.LINK connection, Sony's HVR-DR60 Hard Disk Recording Unit allows recording of the HDV/DV signals from the HVR-V1U(E) camera. The internal 1.8-inch hard disk drive offers a large capacity of 60 GB, which translates into a long recording time of 4.5 hours (270 minutes) for both formats. HDV 1080i signals are recorded as native HDV files (.m2t), while DVCAM or DV signals are recorded as DV-AVI (type1) or RAWDV files.



### EASA certified installations

FLIR Systems PolyTech AB is a certified Part 21 and Part 145 organization being able to issue release certificates of airworthiness (EASA Form 1) for its products for the most popular helicopter models currently operating worldwide.

### A complete package, easy installation

The Pixel 350 HD comes standard with an easy-to-use remote controller and a monitor. An electronics box with harddisk recorder and a cable kit are also included. Thanks to this complete package installing the Pixel 350 HD becomes extremely easy.

### Designed by FLIR Systems

FLIR has a reputation for unparalleled service and support. With thousands of systems in the field, only FLIR has a worldwide network of service centers and highly trained field service technicians. What's more, FLIR has more loaner systems than all other manufacturers combined. FLIR leads the way in customer service and support.

# Pixel 350 HD



## Technical specifications

### GIMBAL SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Active Gyro-stabilization  | 4 axis stabilization                                  |
| Field of Regard            | Elevation: +10° to -120°<br>Azimuth: +360° continuous |
| Maximum Slew Rate          | 60°/sec.  |
| Maximum Slew Acceleration  | >75°/sec./sec.  |
| Diameter                   | 13.8 in. (35 cm)                                      |
| Height                     | 19.3 in. (49 cm)                                      |
| Weight (w/camera and lens) | 44 lbs. (20 kg)                                       |
| Input Voltage              | 22 to 30 VDC 10 amps                                  |
| Power Consumption          | <150 watts  |

### ENVIRONMENTAL SPECIFICATIONS

|                       |                |
|-----------------------|----------------|
| Standards             | RTCA DO-160E   |
| Operating Temperature | -20°C to +40°C |

### CAMERA & LENS

|                      |  |
|----------------------|--|
| Sony                 | HVR-V1E (PAL) or HVR-V1U (NTSC)  |
| Pickup               | 3-CCD, 1/4" ClearVid CMOS  |
| Effective Elements   | 1.04 million (approx.)   |
| Scanning System      | PAL: 1080/50i, 1080/25p, 576/50i<br>NTSC: 1080/60i, 1080/30p, 480/60i                  |
| Minimum Illumination | 4 lux @ 18 dB, normal shutter  |
| Outputs              | NTSC or PAL Monitor Out, HDV/DV via iLink  |
| Lens                 | Carl Zeiss Vario-Sonnar T  |
| Focal Length         | f = 3.9 to 78 mm, f = 37.4 to 748 mm* at 16:9 mode<br>f = 45.7 to 914 mm* at 4:3 mode, |
| Zoom Ratio           | 20:1   |

### HARD DISK RECORDER

|                    |   |
|--------------------|---|
| Sony               | HVR-DR60  |
| Recording Capacity | 60 GB   |
| File Formats       | HDV: MPEG-2TS (.m2t), DVCAM/DV: AVI TYPE 1 (.avi)<br>and RAW DV (.DV) |
| OS Compatibility   | Windows® 2000, XP<br>Mac® OS X (v10.3)                                |

### STANDARD CONFIGURATION

Gimbal, Remote Controller with monitor,  
Electronics box with harddisk recorder and cable kit

\* These values are calculated to be equivalent to the 35 mm film.



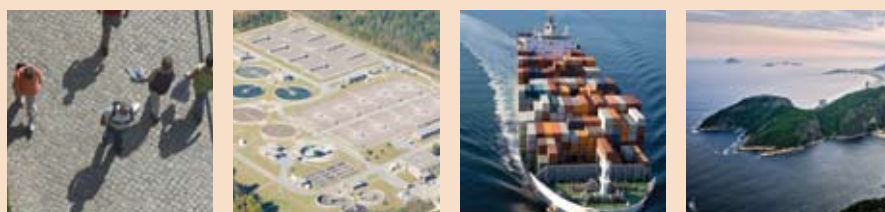
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