



RocketCam ED360000 Series Video Cameras

General Description

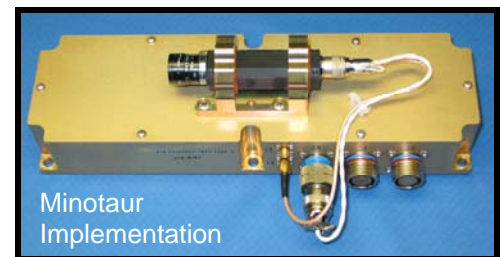
The ED360000 series are small ruggedized color cameras to image dynamic events in harsh environments such as rockets, spacecraft and other remote platforms.

Applications

- Externally mounted cameras in pods/fairings:
 - Used to image rocket during ascent providing video of rocket plumes and the receding Earth
 - Provide video of separation and launch deployment events; while obtaining valuable engineering confirmation of vehicle dynamics and status
 - Perform well even with the Sun in the FOV. Fast response to step changes in illumination provides exceptional coverage of key events and deployments
- Internally mounted cameras on simple brackets:
 - Used to obtain video of separations and deployments from within the launch vehicle
 - Provide ongoing confirmation of deployment and status from orbit

Features

- COTS CCD-based unit
 - Selected for small size, CCD and AGC
 - Ruggedized using proprietary procedures
 - Outputs: NTSC or PAL
- Aperture fixed for best balance between sensitivity (daylight operation) and depth of field
- Cameras built into external "Camera Pod" or mounted on bracket
 - Pod isolates camera from aerodynamic, thermal, vibrate stress.
 - Bracket provides rigid support
- Compatible with Ecliptic Analog (AVS) and Digital Video Systems (DVS)
- Approved for use on multiple launch vehicles and spacecraft
 - Delta II, III and IV
 - Atlas 2, 3 and 5
 - Shuttle ET and SRBs
 - Various missile-defense target vehicles
 - Various spacecraft buses
 - Commercial vehicles like *SpaceShipOne*



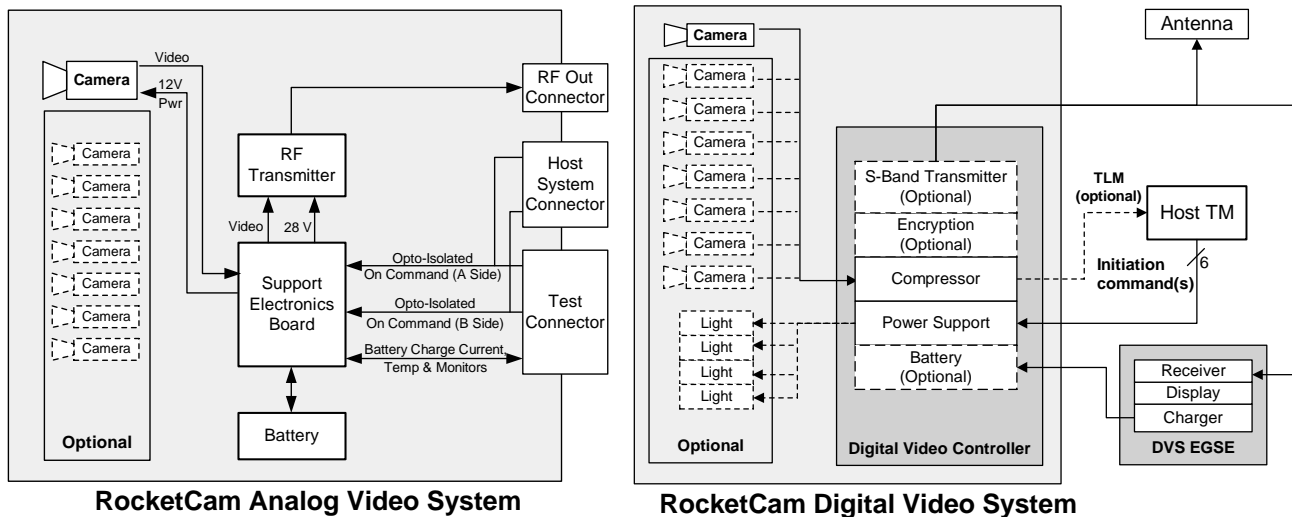
Specifications

| | | | |
|----------------------|---|-------------|--|
| Focal Plane | 1/2" color CCD | Temperature | Storage: - 53 to +100°C Operating: - 40 to 80°C |
| Scanning | Interleaved, 30fps | Humidity | Storage: 20 - 90% Operating: 20 - 80% |
| Pixels, Effective | NTSC 768 x 494 (PAL 752 x 582) | Size | 22 x 22 x 75 mm |
| Shutter Speed | 1/60 to 1/4000 sec (Auto CCD Iris) 1/60 to 1/100,000 sec (RS232 fixed) | Mass | 84 g |
| Frame Rate | 30 fps | Power | 10.5 - 15 V, 2.4 W |
| Sync | Internal or External | Mounting | External (fairing) Internal (bracket) |
| Minimum Illumination | 3 lux (F1.2, AGC ON) | | |
| Sensitivity | 2000 lux @ F8, AGC OFF (0dB) | | |
| Gain Control | AGC (0 - 18dB)/Fixed (0 dB) | | |
| White Balance | AutoTrace, 3200K, 5600K & Manual | | |
| Video Out | VBS: 1 V p-p, 75 Z, sync negative Y: 1 V p-p, 75 Z, C: Level depends on VBS output | | |
| Video S/N | 48 dB | | |

Lens Options:

| Focal Length [mm] | FOV (full-angle) | |
|----------------------|------------------|---------------|
| | H [degree] | V [degree] |
| 3.5 | 107.0 | 80.0 |
| 6 | 57.8 | 44.1 |
| 12 | 30.0 | 22.4 |
| 25 | 14.3 | 10.7 |
| 50 | 7.2 | 5.4 |

Application Examples



For additional information please contact:

Tel: (626) 798-2436 x403 Fax: (626) 798-2251
Email: sales@EclipticEnterprises.com

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Ecliptic Enterprises Corporation
398 W. Washington Blvd., Suite 100
Pasadena, CA 91103
www.EclipticEnterprises.com