


##  gatellite System




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Copies: SARSLO

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## 1. Attachmoter

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KH-10 System Description

Mission Data
Orbit: $\quad 80-187 \mathrm{NM} ; 70-230 \mathrm{~min}-\max$
Inclination: $\quad 90^{\circ}, 80^{\circ}-100^{\circ}$ min-max
Repeating Orbit: $\quad 7.5$ days, nominal
Access:
$80^{\circ} \mathrm{N}$ to $80^{\circ} \mathrm{s}$
Perigee Latitude:
Velocity:
$55^{\circ} \mathrm{N}$, nominal
$4.25 \mathrm{NM} / \mathrm{sec}$
V/H Range:
$0.0175-0.0615$ radians $/ \mathrm{sec}$

## Camera System

Primary Purpose: Technical Intelligence
Type:
Resolution:
Frame on axis at 80 NM
Coverage:
Stereo Limits:
Image Format:
$9100^{\prime}$ on axis at nadir
Pitch: $16^{\circ}$ forward; $24^{\circ} \mathrm{aft}$; Roll: $\pm 37^{\circ}$
9.4 inches diameter, circular

Lens
Type:
Focal Length:
Lens Aperture:
Relative Aperture:
Half Field Angle:
Full Field Angle:
Mirror Diameter:
Ross Telephoto
70 inches
$0.54^{\circ}$
$1.08^{\circ}$
70 inches (circular)
Shutter
Type:
Speed:
Focal plane
Exposure:
40 inches/sec
.0025, .0036, .0050, .0070, $.0100, .0140, .0200, .0400$ seconds
Orientation:
Platen Rotation:

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Focus

| Automatic: | $\pm 0.002$ inches |
| :--- | :--- |
| Range: | 0.1 inches |
| Steps: | 50 |

Primary Film

| Width: | 9.5 inches |
| :--- | :--- |
| Iype: | 3404 Equivalent |
|  | Estar Thin Base |
|  | Exposure Index $=6$ |
| Load: | Approximately 12,400 frames |

Secondary Film

| Width: | 9.5 inches |
| :--- | :--- |
| Type: | So 121 (Color) |
|  | SO 180 (Infrared) |
|  | 3401 (Hi-speed Black \& White) |
|  | 3404 Equivalent or Selected Emulsion |
|  | Load: |

Data Available for Exploitation
Complete MCD, to include:

Ephemeris
Target Information Scale Information Camera Data

Attitude Data
Calibration Data
Date Block Information
(Back Up Only)

