UltraCam-Lp
Technical Specifications

Image Product Specification
Image format
Image data formats
Color at level 3

Digital Camera Technical Data (Sensor Unit 5-Lp)
Panchromatic image size
Panchromatic physical pixel size
Physical format of the focal plane
Lens system
Panchromatic lens focal distance
Lens aperture
Total field of view, cross track (along track)
Color (multi-spectral capability)
Color image size
Color physical pixel size
Lens system
Color lens system focal distance
Color lens aperture
Total color field of view, cross track (along track)
Shutter system
Shutter speed options
Forward-motion compensation (FMC) for PAN, RGB and NIR
Maximum FMC-capability
Pixel size on the ground (GSD) at flying height of 900 m (at 500m)
Frame rate per second (minimum inter-image interval, normal mode)
Frame rate per second (minimum inter-image interval, turbo-mode)
Analog-to-digital conversion at
Radiometric resolution in each color channel
Physical dimensions of the camera unit
Weight
Power consumption at full performance

Integrated In Flight Data Storage System
In Flight Data Storage
In-flight storage capacity
Configuration of each data unit
In-flight capacity to collect uncompressed frames
Method of exchanging data units in-flight
Data transfer into office environment

Operational Specification
Data collection period at 70% & 20% overlap, at 20 cm GSD, 140knts
Post-processing of collected raw images
Data transfer from aircraft to office
Mounting of the camera
Operation of the camera
Flight planning support
Exterior orientation support
Photogrammetric Production
Image geometric accuracy

Analogous to an aerial film image at a format of 23 cm x 16 cm, scanned at 20 µm
JPEG, TIFF with options for 8 and 16 bits, standard tiff format
Full resolution R, G, B, Near-IR channels, planar or pixel-interleaved

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