

# Film Replacement

## D-13000 Aerial Digital Camera

### Applications

- DTM, DSM, DEM
- Stereo compilation
- Contour generation
- Tonally balanced mosaics

### Advantages

- Extended acquisition window
- Superior image quality
- Scalable
- Faster post-processing and quality control
- Improved workflow productivity



**The D-13000 is a distinctive solution offering the traditional features of film with the benefits of digital technology.**

With a footprint of 13,000 pixels across by 8,900 pixels along the flight line, the D-13000 is the perfect aerial digital camera to replace your film-based camera or expand your existing digital camera capabilities.

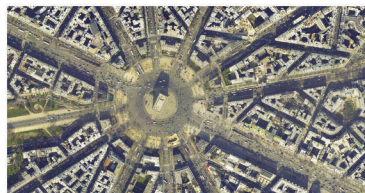
The D-13000 features a large footprint, the unique and proven True Forward Motion Compensation design, True Color acquisition, and simplified architecture supported by a dependable and reliable acquisition system.

The D-13000 also offers a wide range of lenses as well as the ability to fly with or without the simultaneous acquisition of near-infrared images, making the D-13000 highly flexible and scalable to your specific projects and applications.

The bonus? It's all backed by Optech's industry-leading global 24/7 support.

**The D-13000 is a complete solution that delivers business value ... today.**

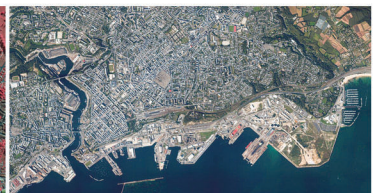
13,000 x 8,900



 Color Mosaic



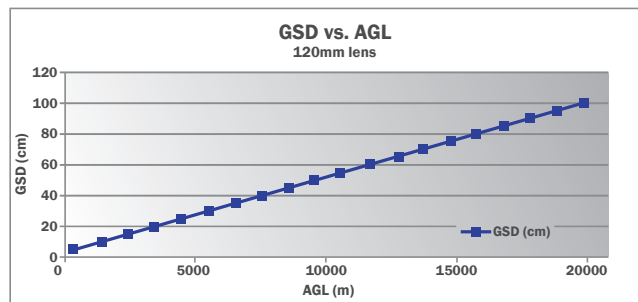
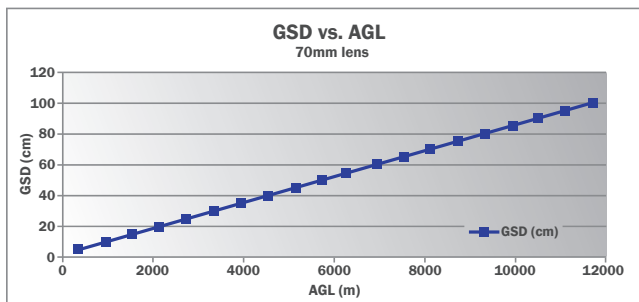
 Infrared Mosaic



 Large Survey



# D-13000 Aerial Digital Camera



Parameter	Specification
<b>Camera Head</b>	
Sensor type	60 Mpix full frame CCD, RGB
Sensor format (H x V)	8,984 x 6,732 pixels
Pixel size	6 $\mu\text{m}$ x 6 $\mu\text{m}$
Frame rate	1 frame/2 sec.
FMC	Electro-mechanical, driven by piezo technology (patented)
Shutter	Electro-mechanical iris mechanism 1/125 to 1/500++ sec. f-stops: 5.6, 8, 11, 16
Lenses	70 mm/120 mm/210 mm
Filter	Color and near-infrared removable filters
Dimensions (H x W x D)	200 x 320 x 120 mm (70 mm lens)
Weight	~8 kg (70 mm lens)
<b>Camera Housing</b>	
Composition	Carbon fiber with thermal and vibrational isolation
Diameter	400 mm
Weight	~45 kg including camera heads
<b>Controller Unit</b>	
Computer	PC/104 RoHS-compliant small-form-factor embedded computers with Intel® Core™ Duo LV2400 CPU 2 GB RAM, 4 GB flash disk local storage IEEE 1394 Firewire interface
Removable storage unit	~500 GB solid state drives, 8,000 images per drive
Power consumption	12-20 A
Dimensions (H x W x D)	440 x 270 x 360 mm
Weight	~35 kg
<b>Image Pre-Processing Software</b>	
CaptureOne	Radiometric control and format conversion, TIFF or JPEG
D-Merge	Radiometric and geometric frame merging
Image output	13,000 x 8,900 pixels 8 or 16 bits per channel (340 MB or 680 MB per image)

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