The new Leica RCD30 Series – imaging revolution from the leader

The new Leica RCD30 Series of medium format cameras represents a true revolution in airborne imaging. Just like the RC30 has once set standards in film based airborne imaging, the new Leica RCD30 is setting new standards in what you and your customers can expect from a medium format digital camera.

A true Masterpiece

The Leica RCD30 Series is not only true imaging innovation, it’s a masterpiece. The Leica RCD30 offers performance that is otherwise only known from large-format airborne sensors at a lower cost and thus makes digital multispectral photogrammetry available to everyone.

The Leica RCD30 boasts quite a number of innovative and unique “world’s first” features and is the only suitable medium format camera for photogrammetric and remote sensing applications:

- 60MP single camera head delivers co-registered, multispectral RGBN imagery
- Mechanical Forward Motion Compensation (FMC) along two axis
- Ruggedized and thermal stabilized lens system with innovative bayonet mount and user replaceable central shutter with automatically controlled high precision aperture
- Modular concept for single standalone, multihead and oblique configurations
- Full integration with Leica ALS LIDAR and other third party sensors

- when it has to be right

Leica Geosystems
Leica RCD30 Series
Product Specifications

Characteristics of Data Acquisition

- **CCD Size (60MP)**: 8956 x 6708 pixels
- **Pixel Size**: 6 µm
- **Dynamic Range of CCD**: 73 dB
- **Resolution A/D Converter**: 14-bit
- **Data Channel**: 16-bit lossless
- **Maximum Frame Rate**: 1.0 sec
- **Motion Compensation**: Mechanical forward and lateral motion compensation along two axes

Spectral Range

- **Camera Head CH61**: R
- **Camera Head CH62**: R, G, B, and Near-Infrared, coregistered
  - **Near-Infrared**: 780 – 880 nm

Optics

- **Lenses**
  - Leica NAG-D 50 mm
  - Leica NAT-D 80 mm
  - Ruggedized and temperature compensated for high accuracy performance between –10°C and +30°C
- **Shutter**: Central shutter, user replaceable
- **Aperture**
  - Leica NAG-D 50 mm: 2.8, 4.0, 5.6, 8.0
  - Leica NAT-D 80 mm: 4.0, 5.6, 8.0, 11
- **Lens Mount**: Easy to use bayonet connection
- **Stabilized connection mechanics**:

Physical

- **Camera Head CH6x**
  - **Weight (w/o lens)**: 3.0 kg
  - with NAG-D 50 mm: 4.4 kg
  - with NAT-D 80 mm: 4.1 kg
  - with NAG-D 50 mm: 147 mm
  - with NAT-D 80 mm: 223 mm
  - Diameter: 128 mm
  - **Camera Controller CC31/CC32**
  - **Weight**: without MM30: 5.0 kg
  - Life: >200,000 frames
  - **Aperture Control**: 2.8, 4.0, 5.6, 8.0 for NAT-D 80 mm
  - 4.0, 5.6, 8.0, 11 for NAG-D 50 mm
  - Automatically controlled aperture
  - **Lenses Mount**: Easy to use bayonet connection
  - Automated electrical connection
  - Stabilized connection mechanics

Operational

- **Capacity of Mass Memory MM30**
  - **Single MM30**
    - 10,800 RGB
    - 15,800 RGBN
    - 39,600 RGB
  - **Joint MM30**
    - 39,600 RGB
    - 31,600 RGBN

  - **MM30–1200**
    - 9,900 RGB
    - 7,900 RGBN
    - 18,800 RGB
    - 15,800 RGBN

  - **MM30–300**
    - 5,300 RGB
    - 4,200 RGBN
    - 10,600 RGB
    - 8,400 RGBN

  - Typical image storage per MM30 configuration.

Post Processing and Data Format

- **Post Processing**
  - **Output from Leica FramePro**: Distortion-free, 8 and 16-bit (RGB, TIFF and ISQ) images with RGB, RGBN, NIR, NRI and NDVI band combinations

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TQM Total Quality Management – our commitment to total customer satisfaction.

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