Leica RCD30 Oblique Life from a Different Angle



Looking at Life from a Different Angle

The new Leica RCD30 Oblique camera system is specifically designed for high accuracy 3D urban mapping and 3D corridor mapping applications. Based on the leading Leica RCD30, the world's first 60MP multispectral medium format camera, the Leica RCD30 Oblique boasts a number of unique photogrammetric design features that not only offer superior image quality and highest accuracy, but also highest flexibility.

Photogrammetric Quality – A Measurable Difference for Urban Mapping

For 3D urban and corridor mapping applications, the Leica RCD30 Oblique has a number of distinct advantages:

- A choice of CH61 RGB only and CH62 multispectral RGBN camera heads
- Multi-directional motion compensation for highest image quality
- 60MP camera heads to acquire more information upgradeable to 80MP from 2013
- Ruggedized design for photogrammetric applications and high geometric accuracy
- Compact, flexible and protected installation inside Leica PAV80 gyrostabilized mount

- Single camera controller CC32 with integrated GNSS/IMU system
- Fully integrated workflow from mission planning to post processing
- Flexible Trio and Penta head configuration for corridor mapping and urban mapping applications
- High frame rate
- Standardized aircraft installation compatible with other Leica sensors



- when it has to be right

Leica RCD30 Oblique Specifications

CH62RGB and NIR (780-880 nm), coregistered

High accuracy performance between -10°C and +30°C Central shutter, user replaceable (~200,000 + frames) Automatically controlled aperture

Precise bayonet connection, automated electrical connection

MM30 Solid state available in 320 GB, 600 GB and 1,200 GB

8956 x 6708 pixels

16-bit lossless compressed

Mechanical, bi-directional

Height 167 mm, diameter 128 mm

Weight 0.8kg, height 76mm Weight 0.5kg, height 46mm

2.8, 4.0, 5.6 and 8.0 for NAT-D 80mm 4.0, 5.6, 8.0, 11 for NAG-D 50 mm

Includes deeply coupled GNSS/IMU solution 64-bit WIN7, 8GB RAM, 32GB flash, USB 2.0, SATA

39,600 RGB images or 31,600 RGBN images 18,800 RGB images or 15,800 RGBN images 10,600 RGB images or 8,400 RGBN images

OC52 12.1" screen with 1024 x 768 resolution Designed for installation with Interface Stand IS40

OC50 6.3" screen with 1024 x 768 resolution

Designed for cockpit mounting

Stabilized connection mechanics

Leica IPAS CUS4, DUS5m NUS5

6.1 kg 300 mm x 260 mm x 140 mm

CC32 holds up to 2 MM30s Weight 0.5 kg Removable & portable

Controls up to 5 CH6 x

485 mm 390 mm

17 kg

6um

73 dB

14-bit

1.0 sec

1.5 sec

1.8 sec

3.1 kg

CH61RGB

Camera Head CH6x – Sensor Characteristics

CCD Size (60MP* Pixel Size (60MP) Dynamic Range of CCD **Resolution A/D Converter** Data Channel Maximum Frame Rate (Uno/Duo) Maximum Frame Rate (Trio) Maximum Frame Rate (Penta) Motion Compensation Spectral Range Spectral Range Weight (w/o lens) Dimensions

*sensor upgrades to 80MP available from Q2 2013

Camera Head CH6x – Optics

Lenses

Leica NAG-D 50mm Leica NAT-D 80mm

Shutter Aperture

Lens Mount

IMU selection

Camera Controller CC32

Weight (w/o MM30) Dimensions LxWxH Capacity

Processor Mass Memory

Mass Memory Capacity - For oblique configurations only a joint MM30 mode is available. Joint MM30 1,200GB Joint MM30 600GB Joint MM30 320GB

Peripherals

Leica RCD30 Oblique Pod

Height Diameter Weight incl IMU Operator and Pilot Display Operator Display

Pilot Display

Guidance Indicator GI40

Environmental

Pressure Humidity Operating Temperature Storage Temperature Storage Temperature

Electrical

Average Power Consumption of Leica RCD30 Trio Maximum Peak Power Consumption of Leica RCD30 Trio Average Power Consumption of Leica RCD30 Penta Maximum Peak Power Consumption of Leica RCD30 Penta

LED array display for cockpit mounting Non-pressurized cabin up to ICAO 25,000 ft 0% to 95% RH according ISO7137 (non-condensating)

Holds 3 or 5 RCD30 cameras, depending on base plate and configuration.

Users exchangeable. Designed for installation with a Leica PAV80

– 20°C to +45°C - 40 °C to +85 °C (except CH6x and lens) - 40°C to + 70°C (CH6x plus lens)

> 365 W/28 VDC ~ 650 W/28 VDC < 0.3 s 465 W/28 VDC ~770 W/28 VDC < 0.3 s

Standards

RTCA DO-160G, EUROCAE-14E, FAR§23.561, FAR§27.561, USA FCC Part 15, EU Directive 1999/5/EC

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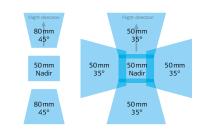
Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.

Leica Geosystems AG Heerbrugg, Switzerland

Leica RCD30 CH62 with Camera Controller CC32

Leica RCD30 Oblique Penta Pod with RCD30 cameras



Leica RCD30 Oblique Trio and Penta footprint



Leica RCD30 Oblique (RGB) and Nadir (RGBN) images



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