Specifications

Angular stabilization ranges:	
- Pitch (at 0° roll):	$\leq \pm$ 10.5°
- Roll (at 0° pitch):	$\leq \pm$ 10.5°
- Yaw (drift):	$\leq \pm$ 25.0°
Residual angular rate of the horizontal axis[1]:	< 0.5°/s rms
Deviation from perpendicular[1]:	
- Without IMU support with feature 'Performance Boost'	$\leq$ 0.3° rms
- With IMU support[2]	$\leq$ 0.08° rms
Interface	RS 232
Payload	0 ... 35 kg
Operational voltage	28 VDC (24 ... 30 VDC)
Power consumption at 28 VDC	30 W rms / peak 120 W
Recommended pre-fuse	15 Amp fuse
Operating temperature	-25 °C ... +60 °C
Storage temperature	-40 °C ... +85 °C
Useable diameter	270 mm
Mass	14 kg

	Length	Width	Height
Dimensions DSM 400 (regular leveling positions)	460 mm	430 mm	165[3] mm

Applied standards	RTCA DO-160-G, EUROCAE-14G, ISO 7137, 2006/42/EC Machinery

Custom-Made Precision

Ahead with Precision

Space for your notes

SOMAG AG Jena
Am Zementwerk 8
D-07745 Jena
Germany

Phone: +49 3641 633 68 0
Fax: +49 3641 633 68 99
E-Mail: info@somag-ag.de
Web: www.somag-ag.de

DSM 400

Airborne Land

Marine Worldwide

aerial-survey-base.com

Features/Advantages

- Powerful Mount for medium format cameras and sensors
  › High payload/minimum weight

- Drastic reduction of angular rates
  › Image motion reduction

- Leveling option
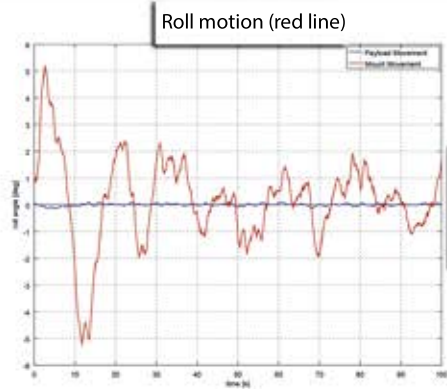 › Possibility of using external IMU data (see data example)

- Independent operation
  › Without external IMU possible

- Passive Vibration Isolation Ring
  › Decoupling of high frequency oscillations

- Applied standards:
  › EUROCAE-14G, RTCA/DO-160G, ISO 7137,
    2006/42/EC Machinery

- SOMAG Mount Control App to setup the best performance
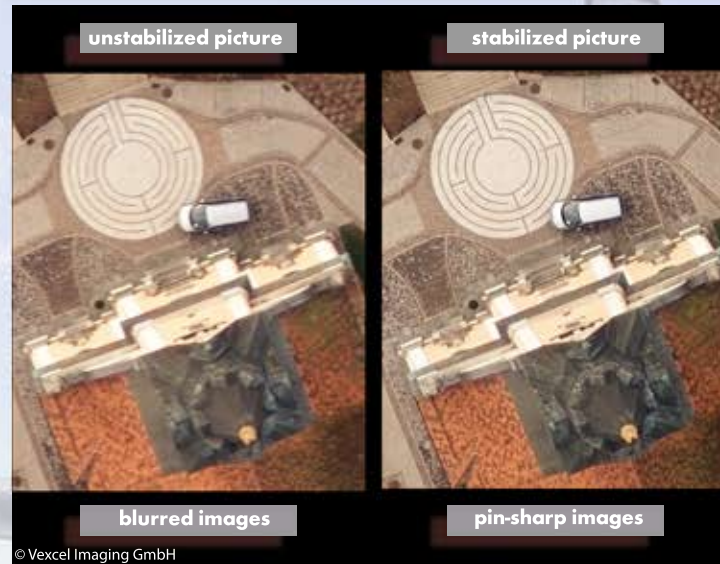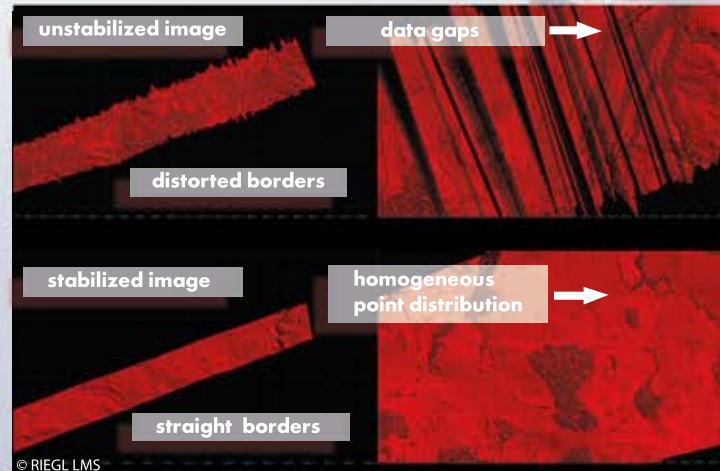 for your device and monitor various parameters

Performance Example

Roll motion (red line)

Residual payload movement (blue line)

Mount performance with external IMU data

Data Examples*

Aerial Image Example

unstabilized picture

stabilized picture

blurred images

pin-sharp images

© Vexcel Imaging GmbH

Aerial LiDAR Data Example

unstabilized image

data gaps

distorted borders

stabilized image

homogeneous point distribution

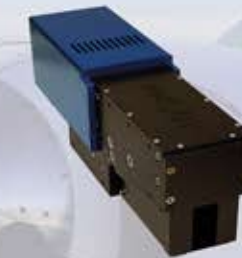straight borders

© RIEGL LMS

Application Examples*

Phase One 190MP

Riegl VUX-1LR

NEO VNIR - 1800

Itres MicroCASI 1920

… ANY OTHER SENSOR IS POSSIBLE!

DSM 400

aerial-survey-base.com