

**VEXCEL**  
IMAGING

ULTRACAM FALCON MARK 2

# Accelerate your business

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ULTRACAM FALCON MARK 2

# Your projects completed on time. Every time.

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TONY ST-PIERRE  
ULTRACAM FALCON CUSTOMER

Optimized productivity and image quality come together in the UltraCam Falcon Mark 2 digital aerial camera system.

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Featuring an image footprint of 17,310 x 11,310 pixels across the flight strip, the UltraCam Falcon Mark 2 is the perfect solution for capturing large areas in a short time. Meanwhile, the system's 1.35 second frame interval makes the UltraCam Falcon Mark 2 a versatile system for flying high resolution projects at lower altitudes. Choose from two different focal lengths (70 mm and 100 mm) at the time of purchase for a system. In addition to PAN and RGB channels, the UltraCam Falcon Mark 2 includes a near-infrared channel to support classification projects.

With the UltraCam Falcon systems, you are well equipped to face the challenges of the future: The system can grow with your company and can be upgraded within the photogrammetric nadir UltraCam product line through refurbishment.

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"The UltraCam Falcon is highly reliable, has a large footprint and produces very beautiful images. It is one of the secrets why our clients keep coming back: We respect the capture schedule and deliver high quality images. To do so, we need an UltraCam."

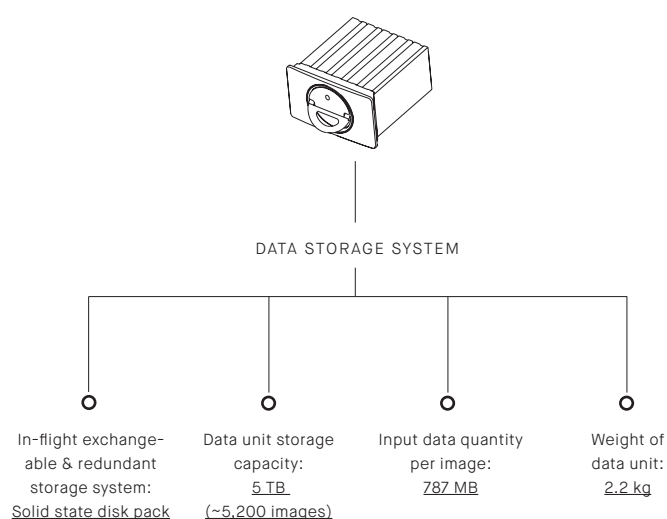
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# Specifications & details

## SENSOR SYSTEM

PAN image size	17,310 x 11,310 pixels
PAN physical pixel size	6.0 µm
Color capability (multi-spectral)	4 channels - R, G, B & NIR
Color image size	5,770 x 3,770 pixels
Color physical pixel size	6.0 µm
Pansharpen ratio	1 : 3

Imaging sensor	CCD
Shutter (longlife central leaf)	1/1000 to 1/64
Forward-motion compensation (FMC)	TDI controlled
Maximum FMC capacity	50 pixels
Frame rate (minimum inter-image interval)	1 frame per 1.35 seconds
Dynamic range	> 72 db
Analog-to-digital-conversion at	14 bits



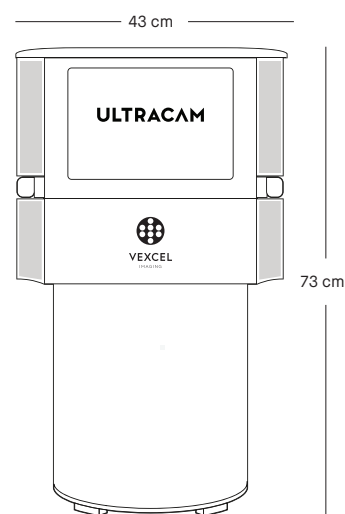
Power consumption:  
max. 350 W



Weight:  
61 kg

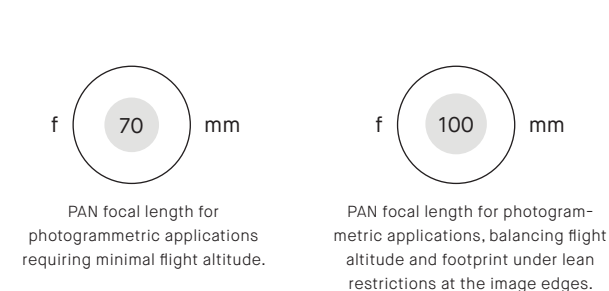


Configuration:  
Integrated housing concept<sup>1</sup>



<sup>1</sup> For separated housing concept options please contact our sales team.

## LENS SYSTEM



	f70	f100
PAN lens system focal length	70 mm	100 mm
PAN lens aperture	f=1/5.6	f=1/5.6
Color (R, G, B & NIR) lens system focal length	23 mm	33 mm
Color (R, G, B & NIR) lens aperture	f=1/5.6	f=1/4.8
PAN total field of view, across track (along track)	73,1° (51,7°)	54,9° (37,5°)
Flying height for PAN pixel size @ 10 cm GSD	1,167 m	1,667 m

## OPERATIONAL SPECIFICATION



Flight altitude:  
≤ 7000 m  
above sea level



Humidity:  
5 % to 95 %  
no condensation



Temperature:  
0 °C to +45 °C  
(operation, computer stack)  
-20 °C to +45 °C  
(operation, sensor stack)  
-20 °C to +65 °C (storage)



Mounting:  
UltraMounts (GSM  
4000 & GSM 3000)  
and most current  
third party mounts<sup>2</sup>



GNSS/INS/FMS  
system support:  
UltraNav (Applanix  
POSTrack OEM) and  
most current third  
party systems<sup>2</sup>



Data processing:  
UltraMap  
processing suite  
including data  
export in standard  
formats

<sup>2</sup>Please contact our sales team for detailed information.



## BENEFIT FROM OUR TECHNOLOGY

When you partner with Vexcel Imaging,  
you get more than a camera.

You get cutting-edge technology combined  
with a progressive service concept for con-  
stant product upgrades, world-class support  
and one-stop solutions.

Today and tomorrow.



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