

## Medium Format Orthophoto Camera

The most automatic and cost effective solution for orthophoto.

Camera and LIDAR are mounted together to share the same GPS/IMU.

Camera captures near true ortho image at the same time as LIDAR captures DEM. That is, a narrow view angle across the flight (36°) path reduces perspective distortion (building lean).



## Specification

Parameter / Camera model	Units	1-DAS-1
Quantity of color RGB modules (camera channels)	pcs	1 (nadir)
Quantity of infrared (NIR) modules (camera channels)	pcs	-
Typical flight height	m	550 - 5500
Swath width on the ground (for nadir channel)	m	360-3600
Flight speed	km/h	110 - 400
Resolution on the ground (GSD) for nadir channel	cm	4,5-45
Quantity of image bands	pcs	1 (1x3)
Radiometric resolution (per band)	bit	14
Dynamic range	dB	75
Exposition time	ms	1,4-4
Focal distance for nadir module	mm	110*
Angular field of view (across the swath) for nadir	degree	36
Dimensions	mm	270x254x388
Weight	kg	12

GSD cm	Swath width m	Altitude AGL m	Max. speed km/h
5,0	400	361	123
5,5	440	397	135
6,0	480	433	147
6,5	520	469	160
7,0	560	506	172
7,5	600	542	184
8,0	640	578	196
8,5	680	614	209
9,0	720	650	221
9,5	760	686	233
10,0	800	722	245
10,5	840	758	258
11,0	880	794	270
11,5	920	831	282
12,0	960	867	295
12,5	1000	903	307