

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	Value
Number of simultaneous channels (RGB/NIR)	1/-
Active pixels	8000×RGB
Pixel size, micron	9
Focal distance, mm	110
Field of view (across the strip), degree	36
Angles for backward/forward channels, degree	-
Radiometric resolution, bit	42 (14 bit per band)
Dynamic range, db	75
Line rate, Hz	250-745
Power requirements	DC 28V/15A (max)
Weight, kg (net/whole system with PC)	6.7/95
Dimensions, mm	11 x 16 x 14 (no lens) 11 x 16 x 25 (with lens)

Flight modes

GSD cm	Swath width m	Height (AGL) m	Maximum speed km/h
5.0	400	611	135
7.5	600	917	203
10.0	800	1222	270
12.5	1000	1528	338
15.0	1200	1833	405
17.5	1400	2139	473
20.0	1600	2444	540
22.5	1800	2750	608
25.0	2000	3056	675
27.5	2200	3361	743
30.0	2400	3667	810
32.5	2600	3972	878
35.0	2800	4278	945
37.5	3000	4583	1013

GSD inch	Swath width ft	Height (AGL) ft	Maximum speed knots
2	1333	2037	74
3	2000	3056	111
4	2667	4074	148
5	3333	5093	185
6	4000	6111	222
7	4667	7130	259
8	5333	8148	296
9	6000	9167	333
10	6667	10185	370
11	7333	11204	407
12	8000	12222	444
13	8667	13241	481
14	9333	14259	518
15	10000	15278	555