

Chrám - vnitřní část

malá chrámová stavba z hinduistické svatyně Pashupatinath v Kathmandu (Nepál)

21 May 2020



Survey Data

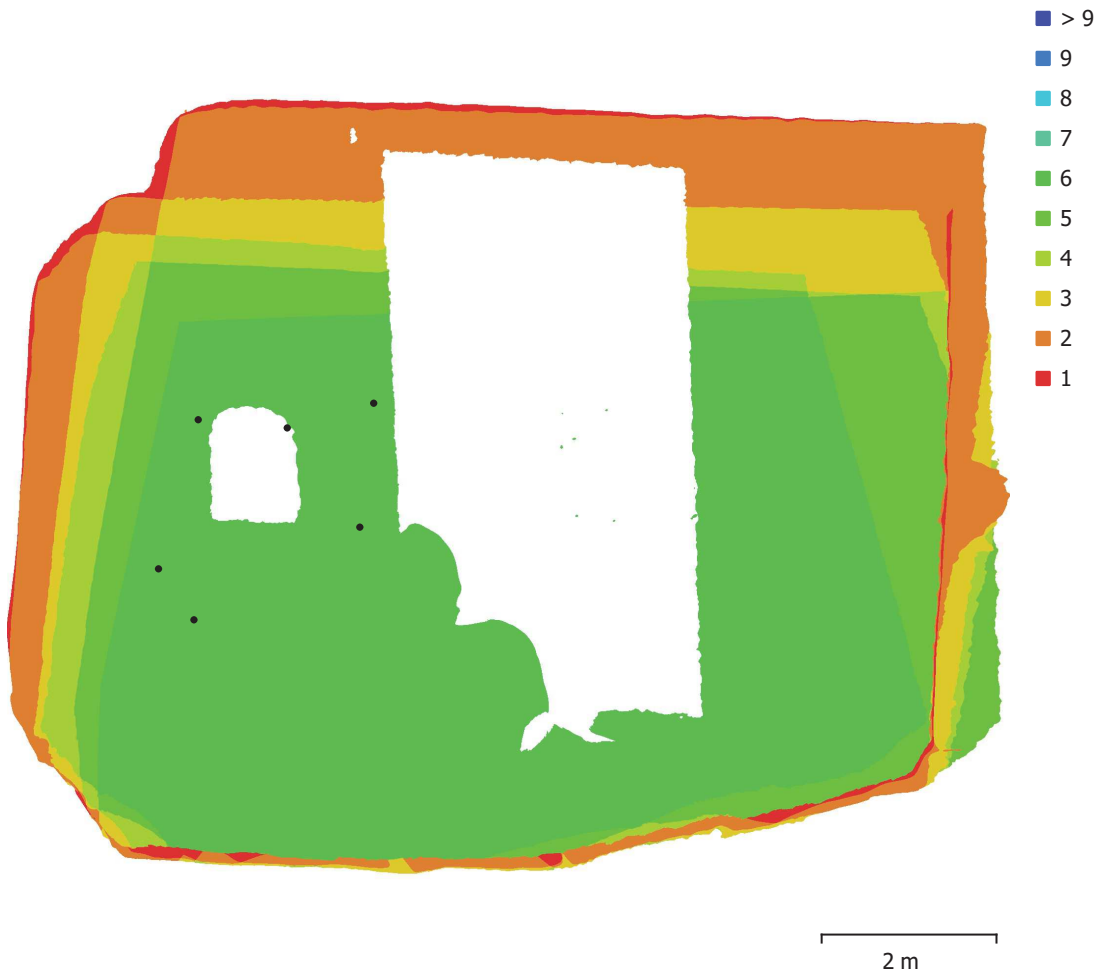


Fig. 1. Camera locations and image overlap.

Number of images:	6	Camera stations:	6
Flying altitude:	9.2 m	Tie points:	19,766
Ground resolution:	3.29 mm/pix	Projections:	52,089
Coverage area:	69.2 m ²	Reprojection error:	0.822 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
DSC-HX5V (4.25mm)	3648 x 2736	4.25 mm	unknown	No

Table 1. Cameras.

Camera Calibration

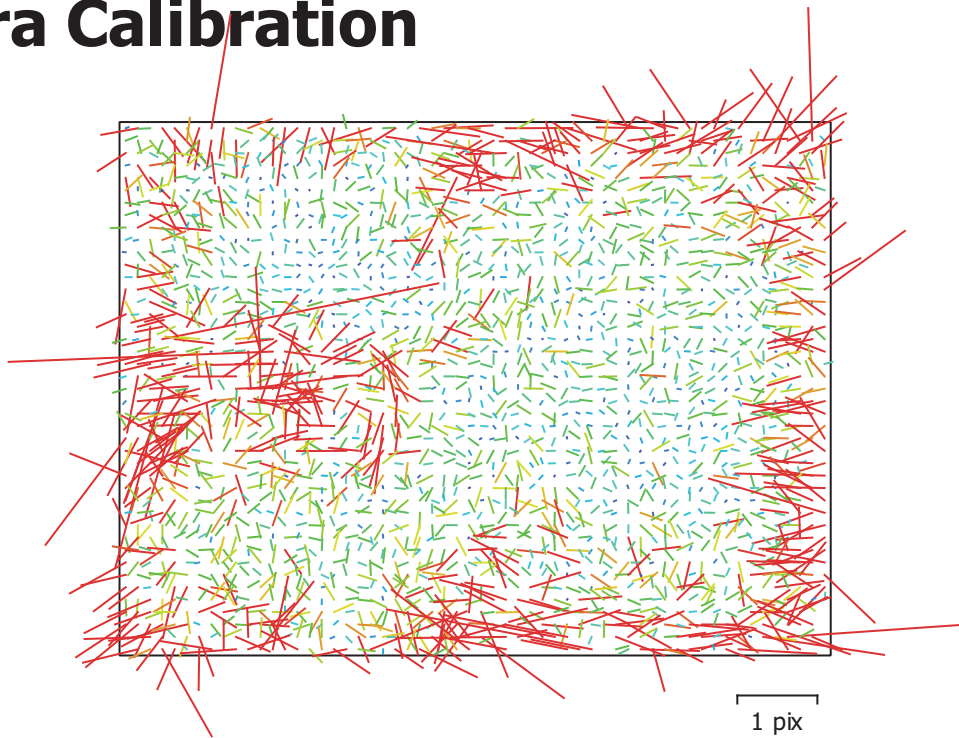


Fig. 2. Image residuals for DSC-HX5V (4.25mm).

DSC-HX5V (4.25mm)

6 images

Type
Frame

Resolution
3648 x 2736

Focal Length
4.25 mm

Pixel Size
unknown

	Value	Error	F	K1
F	2570.51	0.49	1.00	0.59
K1	0.0016767	0.00012		1.00

Table 2. Calibration coefficients and correlation matrix.

Processing Parameters

General

Cameras	6
Aligned cameras	6
Markers	6
Coordinate system	Local Coordinates (m)
Rotation angles	Yaw, Pitch, Roll

Point Cloud

Points	19,766 of 20,498
RMS reprojection error	0.180891 (0.82155 pix)
Max reprojection error	0.543547 (12.4406 pix)
Mean key point size	5.12105 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	2.64972

Alignment parameters

Accuracy	High
Generic preselection	Yes
Key point limit	120,000
Tie point limit	0
Adaptive camera model fitting	Yes
Matching time	25 seconds
Alignment time	4 seconds
Software version	1.5.2.7838

Depth Maps

Count	6
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Depth maps generation parameters

Quality	High
Filtering mode	Moderate
Processing time	30 seconds

Dense Point Cloud

Points	4,597,657
Point colors	3 bands, uint8

Depth maps generation parameters

Quality	High
Filtering mode	Moderate
Processing time	30 seconds

Dense cloud generation parameters

Processing time	14 seconds
Software version	1.5.2.7838

Model

Faces	837,210
Vertices	420,980
Vertex colors	3 bands, uint8

Depth maps generation parameters

Quality	High
Filtering mode	Moderate
Processing time	30 seconds

Reconstruction parameters

Surface type	Arbitrary
Source data	Dense cloud
Interpolation	Enabled

General

Strict volumetric masks	No
Processing time	5 minutes 21 seconds
Software version	1.5.2.7838

Software

Version	1.5.2 build 7838
Platform	Windows 64