

1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	37607_B
Monument/Object Description	Part 2 of 3
Survey Location	Amarna, Egypt
Survey Date(s)	28-Feb-2009
Survey Conditions	Indoors
Scanner Details	Konica Minolta VIVID 9i; mm; Serial No: 1001198
Company/Operator Name	Center for Advanced Spatial Technologies, Katie Simon
Control data collected?	No
Turntable used?	Not recorded
RGB data capture. IF Yes, provide details.	Yes. The VIVID 9i uses internal RGB capture. A three point lighting system was used to illuminate the object from the top and from both sides; this minimized shadows on the object. Each light in the system had 1-3 white light (5000k) flicker free fluorescent bulbs. A 2/2/2 bulb configuration was used throughout the scanning process.
Estimated Data Resolution	0.417
Total Number of Scans in Project	12
Description of final datasets for archive	Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset
Planimetric map of scan coverage areas	No
Additional project notes	NA
Images from survey	None Available

* All Project Information is REQUIRED.

2-Scan Metadata

*Scan Filename	Scan Transformation Matrix	Matrix Applied to Scans?	* Name of monument/object area	* Survey Date	Number of Points in Scan	Additional Scan Notes	* Scanner Technology	Data Resolution	Lense or FOV Details (Triangulation scans only)
37607_B_01	37607_B_mtrx_01	Yes	37607_B	28-Feb-2009	23287	NA	Triangulation	0.374697	Mid
37607_B_02	37607_B_mtrx_02	Yes	37607_B	28-Feb-2009	41967	NA	Triangulation	0.379436	Mid
37607_B_03	37607_B_mtrx_03	Yes	37607_B	28-Feb-2009	55346	NA	Triangulation	0.382393	Mid
37607_B_04	37607_B_mtrx_04	Yes	37607_B	28-Feb-2009	52942	NA	Triangulation	0.383015	Mid
37607_B_05	37607_B_mtrx_05	Yes	37607_B	28-Feb-2009	22597	NA	Triangulation	0.384649	Mid
37607_B_06	37607_B_mtrx_06	Yes	37607_B	28-Feb-2009	49219	NA	Triangulation	0.38107	Mid
37607_B_07	37607_B_mtrx_07	Yes	37607_B	28-Feb-2009	43185	NA	Triangulation	0.384547	Mid
37607_B_08	37607_B_mtrx_08	Yes	37607_B	28-Feb-2009	39878	NA	Triangulation	0.38285	Mid
37607_B_09	37607_B_mtrx_09	Yes	37607_B	28-Feb-2009	26166	NA	Triangulation	0.387654	Mid
37607_B_10	37607_B_mtrx_10	Yes	37607_B	28-Feb-2009	38566	NA	Triangulation	0.384663	Mid
37607_B_11	37607_B_mtrx_11	Yes	37607_B	28-Feb-2009	25853	NA	Triangulation	0.385531	Mid
37607_B_12	37607_B_mtrx_12	Yes	37607_B	28-Feb-2009	15595	NA	Triangulation	0.378134	Mid

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
37607_B_GR.txt	0.069	434533
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	37607_B_GRE.txt	
Number of Points in File		333176
Overlap Reduction	Y	
Smoothing	N	
Subsampling	N	
Color Editions	N	
Point Deletion Summary	Overlap reduction was computed in Polyworks software. Following overlap reduction, floating data points were also deleted. Data remnants from overlap reduction were also deleted as necessary.	

Polygonal Mesh Metadata:

Name of Mesh Dataset	37607_B_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	N	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		478020
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software	
Additional processing notes	NA	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	37607_B_lo.obj	
Total Original Triangle Count		478020
Decimated Triangle Count		25000
RGB Color Preserved from original dataset	Y	

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
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