

1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	34147_08
Monument/Object Description	One fragment (#08) of a series that form a door jamb
Survey Location	Amarna, Egypt
Survey Date(s)	5-Mar-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?	No
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	0.191
Total Number of Scans in Project	5
Description of final datasets for archive	Original scans, registered dataset, mesh dataset, decimated mesh dataset, image
Planimetric map of scan coverage areas	No
Additional project notes	NA
Images from survey	34147_all.jpg

* 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)
34147_08_01	34147_08_mtrx_01	Yes	34147_08	5-Mar-2009	100709	NA	Triangulation	0.192878	Tele
34147_08_02	34147_08_mtrx_02	Yes	34147_08	5-Mar-2009	44348	NA	Triangulation	0.189413	Tele
34147_08_03	34147_08_mtrx_03	Yes	34147_08	5-Mar-2009	52469	NA	Triangulation	0.189343	Tele
34147_08_04	34147_08_mtrx_04	Yes	34147_08	5-Mar-2009	110340	NA	Triangulation	0.194325	Tele
34147_08_05	34147_08_mtrx_05	Yes	34147_08	5-Mar-2009	43711	NA	Triangulation	0.19081	Tele

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_08_GR.txt	0.040	387887
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	Dataset not available
Number of Points in File	
Overlap Reduction	
Smoothing	
Subsampling	
Color Editions	
Point Deletion Summary	

Polygonal Mesh Metadata:

Name of Mesh Dataset	34147_08_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	N	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		365677
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software	
Additional processing notes	Mesh was created from the registered point cloud. Note - no overlap reduction or editing was performed on the point cloud prior to meshing.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	34147_08_lo.obj	
Total Original Triangle Count		365677
Decimated Triangle Count		25000
RGB Color Preserved from original dataset		

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
34147_all.jpg	NA	Image of all door jamb pieces	Center for Advanced Spatial Technologies, Katie Simon	5-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt