1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	34147_59
Monument/Object Description	One fragment (#59) 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	0.236
Total Number of Scans in Project	12
Description of final datasets for archive	Original scans, registered dataset, premesh 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_59_01	34147_59_mtrx_01	Yes	34147_59	5-Mar-2009	105795	NA	Triangulation	0.236512	Tele
34147_59_02	34147_59_mtrx_02	Yes	34147_59	5-Mar-2009	83307	NA	Triangulation	0.239476	Tele
34147_59_03	34147_59_mtrx_03	Yes	34147_59	5-Mar-2009	31111	NA	Triangulation	0.237972	Tele
34147_59_04	34147_59_mtrx_04	Yes	34147_59	5-Mar-2009	99456	NA	Triangulation	0.240138	Tele
34147_59_05	34147_59_mtrx_05	Yes	34147_59	5-Mar-2009	67197	NA	Triangulation	0.23417	Tele
34147_59_06	34147_59_mtrx_06	Yes	34147_59	5-Mar-2009	35989	NA	Triangulation	0.22981	Tele
34147_59_07	34147_59_mtrx_07	Yes	34147_59	5-Mar-2009	125125	NA	Triangulation	0.236679	Tele
34147_59_08	34147_59_mtrx_08	Yes	34147_59	5-Mar-2009	78251	NA	Triangulation	0.239258	Tele
34147_59_09	34147_59_mtrx_09	Yes	34147_59	5-Mar-2009	45257	NA	Triangulation	0.236611	Tele
34147_59_10	34147_59_mtrx_10	Yes	34147_59	5-Mar-2009	103587	NA	Triangulation	0.236427	Tele
34147_59_11	34147_59_mtrx_11	Yes	34147_59	5-Mar-2009	65031	NA	Triangulation	0.230878	Tele
34147_59_12	34147_59_mtrx_12	Yes	34147_59	5-Mar-2009	48192	NA	Triangulation	0.229229	Tele

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_59_GR.txt	0.030	888229

* All Registration Information is REQUIRED.

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	34147_59_GRE.txt
Number of Points in File	573723
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	34147_59_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	N
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	912626
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_59_lo.obj
Total Original Triangle Count	912626
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