1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	34147_19
Monument/Object Description	One fragment (#19) of a series that form a door jamb
Survey Location	Amarna, Egypt
Survey Date(s)	6-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	0.225
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_19_01	34147_19_mtrx_01	Yes	34147_19	6-Mar-2009	28860	NA	Triangulation	0.22493	tele
34147_19_02	34147_19_mtrx_02	Yes	34147_19	6-Mar-2009	18992	NA	Triangulation	0.22704	tele
34147_19_03	34147_19_mtrx_03	Yes	34147_19	6-Mar-2009	11934	NA	Triangulation	0.222729	tele
34147_19_04	34147_19_mtrx_04	Yes	34147_19	6-Mar-2009	35538	NA	Triangulation	0.22486	tele
34147_19_05	34147_19_mtrx_05	Yes	34147_19	6-Mar-2009	11514	NA	Triangulation	0.228434	tele
34147_19_06	34147_19_mtrx_06	Yes	34147_19	6-Mar-2009	14337	NA	Triangulation	0.225487	tele
34147_19_07	34147_19_mtrx_07	Yes	34147_19	6-Mar-2009	36068	NA	Triangulation	0.22716	tele
34147_19_08	34147_19_mtrx_08	Yes	34147_19	6-Mar-2009	25324	NA	Triangulation	0.22607	tele
34147_19_09	34147_19_mtrx_09	Yes	34147_19	6-Mar-2009	6086	NA	Triangulation	0.221888	tele
34147_19_10	34147_19_mtrx_10	Yes	34147_19	6-Mar-2009	29494	NA	Triangulation	0.222572	tele
34147_19_11	34147_19_mtrx_11	Yes	34147_19	6-Mar-2009	9551	NA	Triangulation	0.22202	tele
34147_19_12	34147_19_mtrx_12	Yes	34147_19	6-Mar-2009	19943	NA	Triangulation	0.227269	tele

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_19_GR.txt	0.026	247610

*** All Registration Information is REQUIRED.**

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	34147_19_GRE.txt
Number of Points in File	177564
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_19_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	N
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	303932
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	34147_19_lo.obj
Total Original Triangle Count	303932
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
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