1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	34147_15
Monument/Object Description	One fragment (#15) 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	0.238
Total Number of Scans in Project	12
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_15_01	34147_15_mtrx_01	Yes	34147_15	5-Mar-2009	105687	NA	Triangulation	0.23926	Tele
34147_15_02	34147_15_mtrx_02	Yes	34147_15	5-Mar-2009	64904	NA	Triangulation	0.242438	Tele
34147_15_03	34147_15_mtrx_03	Yes	34147_15	5-Mar-2009	32939	NA	Triangulation	0.241128	Tele
34147_15_04	34147_15_mtrx_04	Yes	34147_15	5-Mar-2009	95442	NA	Triangulation	0.239401	Tele
34147_15_05	34147_15_mtrx_05	Yes	34147_15	5-Mar-2009	37999	NA	Triangulation	0.234133	Tele
34147_15_06	34147_15_mtrx_06	Yes	34147_15	5-Mar-2009	52982	NA	Triangulation	0.233253	Tele
34147_15_07	34147_15_mtrx_07	Yes	34147_15	5-Mar-2009	100571	NA	Triangulation	0.239116	Tele
34147_15_08	34147_15_mtrx_08	Yes	34147_15	5-Mar-2009	65604	NA	Triangulation	0.236126	Tele
34147_15_09	34147_15_mtrx_09	Yes	34147_15	5-Mar-2009	26510	NA	Triangulation	0.235476	Tele
34147_15_10	34147_15_mtrx_10	Yes	34147_15	5-Mar-2009	91690	NA	Triangulation	0.238855	Tele
34147_15_11	34147_15_mtrx_11	Yes	34147_15	5-Mar-2009	54840	NA	Triangulation	0.238906	Tele
34147_15_12	34147_15_mtrx_12	Yes	34147_15	5-Mar-2009	36859	NA	Triangulation	0.239621	Tele

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_15_GR.txt	0.033	765897

*** All Registration Information is REQUIRED.**

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_15_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	N
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	509326
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_15_lo.obj
Total Original Triangle Count	509326
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