1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	34147_14
Monument/Object Description	One fragment (#14) 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	0.238419
Total Number of Scans in Project	13
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_14_01	34147_14_mtrx_01	Yes	34147_14	5-Mar-2009	81285	NA	Triangulation	0.242041	Tele
34147_14_02	34147_14_mtrx_02	Yes	34147_14	5-Mar-2009	45726	NA	Triangulation	0.238384	Tele
34147_14_03	34147_14_mtrx_03	Yes	34147_14	5-Mar-2009	33207	NA	Triangulation	0.23685	Tele
34147_14_04	34147_14_mtrx_04	Yes	34147_14	5-Mar-2009	80007	NA	Triangulation	0.239901	Tele
34147_14_05	34147_14_mtrx_05	Yes	34147_14	5-Mar-2009	28636	NA	Triangulation	0.236911	Tele
34147_14_06	34147_14_mtrx_06	Yes	34147_14	5-Mar-2009	33065	NA	Triangulation	0.237267	Tele
34147_14_07	34147_14_mtrx_07	Yes	34147_14	5-Mar-2009	82083	NA	Triangulation	0.241318	Tele
34147_14_08	34147_14_mtrx_08	Yes	34147_14	5-Mar-2009	51660	NA	Triangulation	0.234735	Tele
34147_14_09	34147_14_mtrx_09	Yes	34147_14	5-Mar-2009	19664	NA	Triangulation	0.228556	Tele
34147_14_10	34147_14_mtrx_10	Yes	34147_14	5-Mar-2009	79759	NA	Triangulation	0.239022	Tele
34147_14_11	34147_14_mtrx_11	Yes	34147_14	5-Mar-2009	38245	NA	Triangulation	0.245731	Tele
34147_14_12	34147_14_mtrx_12	Yes	34147_14	5-Mar-2009	48025	NA	Triangulation	0.245732	Tele
34147_14_13	34147_14_mtrx_13	Yes	34147_14	5-Mar-2009	19311	NA	Triangulation	0.232998	Tele

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_14_GR.txt	0.0326333	640578

* All Registration Information is REQUIRED.

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	34147_14_GRE.txt
Number of Points in File	406450
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_14_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	N
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	567884
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_14_lo.obj
Total Original Triangle Count	567884
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