1-Project Description

Project Name	Virtual Amarna Museum
Name of monument, survey area, or object	NA
Monument/Object Number	5968
Monument/Object Description	stone stele
Survey Location	Amarna, Egypt
Survey Date(s)	4-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?	Yes
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	0.425
Total Number of Scans in Project	14
Description of final datasets for archive	Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset, images
Planimetric map of scan coverage areas	No
Additional project notes	NA
Images from survey	5968_01.jpg, 5968_02.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	First or Last Return (TOF scans only)	Frequency Settings (Phase scans only)	Noise Settings (Phase scans only)	Camera Exposure Settings (If RGB acquired)(Phase scans only)	Lense or FOV Details (Triangulation scans only)
5968_01	5968_mtrx_01	Yes	5968	4-Mar-2009	138064	NA	Triangulation	0.417528					Mid
5968_02	5968_mtrx_02	Yes	5968	4-Mar-2009	56706	NA	Triangulation	0.396359					Mid
5968_03	5968_mtrx_03	Yes	5968	4-Mar-2009	57392	NA	Triangulation	0.390649					Mid
5968_04	5968_mtrx_04	Yes	5968	4-Mar-2009	133202	NA	Triangulation	0.411294					Mid
5968_05	5968_mtrx_05	Yes	5968	4-Mar-2009	42984	NA	Triangulation	0.400581					Mid
5968_06	5968_mtrx_06	Yes	5968	4-Mar-2009	54659	NA	Triangulation	0.401801					Mid
5968_07	5968_mtrx_07	Yes	5968	4-Mar-2009	150974	NA	Triangulation	0.417121					Mid
5968_08	5968_mtrx_08	Yes	5968	4-Mar-2009	62716	NA	Triangulation	0.395274					Mid
5968_09	5968_mtrx_09	Yes	5968	4-Mar-2009	43724	NA	Triangulation	0.383763					Mid
5968_10	5968_mtrx_10	Yes	5968	4-Mar-2009	141453	NA	Triangulation	0.406887					Mid
5968_11	5968_mtrx_11	Yes	5968	4-Mar-2009	30137	NA	Triangulation	0.387572					Mid
5968_12	5968_mtrx_12	Yes	5968	4-Mar-2009	89795	NA	Triangulation	0.410272					Mid
5968_13	5968_mtrx_13	Yes	5968	4-Mar-2009	21835	NA	Triangulation	0.353555					Mid
5968_14	5968_mtrx_14	Yes	5968	4-Mar-2009	36501	NA	Triangulation	0.357751					Mid

***Starred fields are REQUIRED. All others are strongly advised.**

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
5968_GR.txt	0.061	1060082

*** All Registration Information is REQUIRED.**

Pre-Meshing Metadata (ALL IS REQUIRED):

Name of Pre-Mesh Dataset	5968_GRE.txt
Number of Points in File	611998
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 (ALL IS REQUIRED):

Name of Mesh Dataset	5968_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	Y
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	648206
RGB Color Included	Y
Data Reduction	N
Coordinate System Adjustment	Y
CS Adjustment Matrix	Cannot export from software
Additional processing notes	Individual scans were color corrected in Rapidform XOR and then combined to create a mesh.

Decimated Polygonal Mesh Metadata(ALL IS REQUIRED):

Name of Decimated Mesh Dataset	5968_lo.obj
Total Original Triangle Count	648206
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
5968_01.jpg	NA	Image of Amarna Object 5968, a stele	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
5968_02.jpg	NA	Image of Amarna Object 5968, a stele	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt

*** All Image Information is REQUIRED.**