

1-Project Description

Project Name	Virtual Amarna Project	
Name of monument, survey area, or object	NA	
Monument/Object Number		38819
Monument/Object Description	Wooden Head	
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?	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		0.381
Total Number of Scans in Project		24
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	38819_01.jpg, 38819_02.jpg, 38819_03.jpg, 38819_04.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)
38819_01	38819_mtrx_01	Yes	38819	4-Mar-2009	81933	NA	Triangulation	0.419244	Mid
38819_02	38819_mtrx_02	Yes	38819	4-Mar-2009	75265	NA	Triangulation	0.400809	Mid
38819_03	38819_mtrx_03	Yes	38819	4-Mar-2009	33546	NA	Triangulation	0.374617	Mid
38819_04	38819_mtrx_04	Yes	38819	4-Mar-2009	39256	NA	Triangulation	0.380286	Mid
38819_05	38819_mtrx_05	Yes	38819	4-Mar-2009	52356	NA	Triangulation	0.386205	Mid
38819_06	38819_mtrx_06	Yes	38819	4-Mar-2009	32620	NA	Triangulation	0.39213	Mid
38819_07	38819_mtrx_07	Yes	38819	4-Mar-2009	58923	NA	Triangulation	0.387373	Mid
38819_08	38819_mtrx_08	Yes	38819	4-Mar-2009	70513	NA	Triangulation	0.42404	Mid
38819_09	38819_mtrx_09	Yes	38819	4-Mar-2009	109572	NA	Triangulation	0.429086	Mid
38819_10	38819_mtrx_10	Yes	38819	4-Mar-2009	54134	NA	Triangulation	0.388318	Mid
38819_11	38819_mtrx_11	Yes	38819	4-Mar-2009	16715	NA	Triangulation	0.369868	Mid
38819_12	38819_mtrx_12	Yes	38819	4-Mar-2009	7007	NA	Triangulation	0.345472	Mid
38819_13	38819_mtrx_13	Yes	38819	4-Mar-2009	11283	NA	Triangulation	0.348435	Mid
38819_14	38819_mtrx_14	Yes	38819	4-Mar-2009	46926	NA	Triangulation	0.370104	Mid
38819_15	38819_mtrx_15	Yes	38819	4-Mar-2009	39410	NA	Triangulation	0.374125	Mid
38819_16	38819_mtrx_16	Yes	38819	4-Mar-2009	60374	NA	Triangulation	0.405429	Mid
38819_17	38819_mtrx_17	Yes	38819	4-Mar-2009	250830	NA	Triangulation	0.392463	Mid
38819_18	38819_mtrx_18	Yes	38819	4-Mar-2009	24940	NA	Triangulation	0.351181	Mid
38819_19	38819_mtrx_19	Yes	38819	4-Mar-2009	44608	NA	Triangulation	0.339304	Mid
38819_20	38819_mtrx_20	Yes	38819	4-Mar-2009	63943	NA	Triangulation	0.374975	Mid
38819_21	38819_mtrx_21	Yes	38819	4-Mar-2009	61481	NA	Triangulation	0.377957	Mid
38819_22	38819_mtrx_22	Yes	38819	4-Mar-2009	53465	NA	Triangulation	0.377468	Mid
38819_23	38819_mtrx_23	Yes	38819	4-Mar-2009	64059	NA	Triangulation	0.394047	Mid
38819_24	38819_mtrx_24	Yes	38819	4-Mar-2009	116695	NA	Triangulation	0.341323	Mid

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
38819_GR.txt	0.106	1469250

*** All Registration Information is REQUIRED.**

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	38819_GRE.txt	
Number of Points in File		1293195
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	38819_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	N	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		2135688
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	N	
CS Adjustment Matrix	NA	
Additional processing notes	NA	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	38819_lo.obj	
Total Original Triangle Count		2135688
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
38819_01.jpg	NA	Image of Amarna Object 38819, wooden head	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
38819_02.jpg	NA	Image of Amarna Object 38819, wooden head	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
38819_03.jpg	NA	Image of Amarna Object 38819, wooden head	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
38819_04.jpg	NA	Image of Amarna Object 38819, wooden head	Center for Advanced Spatial Technologies, Katie Simon	4-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt