

1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	34296
Monument/Object Description	Small clay mould with circular shank imprint
Survey Location	Amarna, Egypt
Survey Date(s)	23-Mar-2008
Survey Conditions	Indoors
Scanner Details	Konica Minolta VIVID 9i; mm; Serial No: 1001198
Company/Operator Name	Center for Advanced Spatial Technologies, Christopher Goodmaster, Katie Simon
Control data collected?	No
Turntable used?	No
RGB data capture. IF Yes, provide details.	Yes. The VIVID 9i uses internal RGB capture. No additional lighting was used to illuminate the scan artifacts. All additional lighting/color adjustments on the objects was performed during post-processing if necessary.
Estimated Data Resolution	0.168
Total Number of Scans in Project	7
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	34296_01.jpg, 34296_02.jpg, 34296_03.jpg, 34296_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)
34296_01	34296_mtrx_01	Yes	34296	23-Mar-2008	34465	NA	Triangulation	0.167786	Tele
34296_02	34296_mtrx_02	Yes	34296	23-Mar-2008	26286	NA	Triangulation	0.169049	Tele
34296_03	34296_mtrx_03	Yes	34296	23-Mar-2008	21855	NA	Triangulation	0.169422	Tele
34296_04	34296_mtrx_04	Yes	34296	23-Mar-2008	21712	NA	Triangulation	0.169554	Tele
34296_05	34296_mtrx_05	Yes	34296	23-Mar-2008	20505	NA	Triangulation	0.169668	Tele
34296_06	34296_mtrx_06	Yes	34296	23-Mar-2008	16184	NA	Triangulation	0.166648	Tele
34296_07	34296_mtrx_07	Yes	34296	23-Mar-2008	32868	NA	Triangulation	0.167004	Tele

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34296_GR.txt	0.022	173839
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	34296_GRE.txt	
Number of Points in File		91662
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	34296_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	N	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		133938
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software	
Additional processing notes	Color data was adjusted in Rapidform XOR.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	34296_lo.obj	
Total Original Triangle Count		133938
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
34296_01.jpg	NA	Image of Amarna Object 34296,small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster, Ka	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
34296_02.jpg	NA	Image of Amarna Object 34296,small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster, Ka	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
34296_03.jpg	NA	Image of Amarna Object 34296,small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster, Ka	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
34296_04.jpg	NA	Image of Amarna Object 34296,small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster, Ka	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt