

1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	35335
Monument/Object Description	Clay mould
Survey Location	Amarna, Egypt
Survey Date(s)	24-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
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	0.171
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	35335_01.jpg, 35335_02.jpg, 35335_03.jpg, 35335_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)
35335_01	35335_mtrx_01	Yes	35335	24-Mar-2008	9820	NA	Triangulation	0.169946	Tele
35335_02	35335_mtrx_02	Yes	35335	24-Mar-2008	7628	NA	Triangulation	0.171482	Tele
35335_03	35335_mtrx_03	Yes	35335	24-Mar-2008	5866	NA	Triangulation	0.170618	Tele
35335_04	35335_mtrx_04	Yes	35335	24-Mar-2008	10008	NA	Triangulation	0.169829	Tele
35335_05	35335_mtrx_05	Yes	35335	24-Mar-2008	6856	NA	Triangulation	0.170615	Tele
35335_06	35335_mtrx_06	Yes	35335	24-Mar-2008	6709	NA	Triangulation	0.170683	Tele
35335_07	35335_mtrx_07	Yes	35335	24-Mar-2008	7571	NA	Triangulation	0.170549	Tele

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
35335_GR.txt	0.033	54449
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	35335_GRE.txt	
Number of Points in File		39281
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	35335_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	Y	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		44576
RGB Color Included	N	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software.	
Additional processing notes	Color information was removed from model due to poor color quality.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	35335_lo.obj	
Total Original Triangle Count		44576
Decimated Triangle Count		25000
RGB Color Preserved from original dataset	N	

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
35335_01.jpg	NA	Image of Amarna Object 35335, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	24-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35335_02.jpg	NA	Image of Amarna Object 35335, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	24-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35335_03.jpg	NA	Image of Amarna Object 35335, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	24-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35335_04.jpg	NA	Image of Amarna Object 35335, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	24-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt