

1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	35582
Monument/Object Description	clay mould
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
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	0.177
Total Number of Scans in Project	8
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	35582_01.jpg, 35582_02.jpg, 35582_03.jpg, 35582_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)
35582_01	35582_mtrx_01	Yes	35582	23-Mar-2008	16423	NA	Triangulation	0.176166	Tele
35582_02	35582_mtrx_02	Yes	35582	23-Mar-2008	15989	NA	Triangulation	0.17635	Tele
35582_03	35582_mtrx_03	Yes	35582	23-Mar-2008	14384	NA	Triangulation	0.177116	Tele
35582_04	35582_mtrx_04	Yes	35582	23-Mar-2008	10705	NA	Triangulation	0.17822	Tele
35582_05	35582_mtrx_05	Yes	35582	23-Mar-2008	12552	NA	Triangulation	0.177884	Tele
35582_06	35582_mtrx_06	Yes	35582	23-Mar-2008	11337	NA	Triangulation	0.177899	Tele
35582_07	35582_mtrx_07	Yes	35582	23-Mar-2008	18058	NA	Triangulation	0.177761	Tele
35582_08	35582_mtrx_08	Yes	35582	23-Mar-2008	17747	NA	Triangulation	0.17786	Tele

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
35582_GR.txt	0.019	117188
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	35582_GRE.txt	
Number of Points in File		57748
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	35582_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	Y	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		87628
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software.	
Additional processing notes	Data were color corrected and post processed (hole-filled, smoothed, etc...) in Rapidform XOR.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	35582_lo.obj	
Total Original Triangle Count		87628
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
35582_01.jpg	NA	Image of Amarna Object 35582, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35582_02.jpg	NA	Image of Amarna Object 35582, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35582_03.jpg	NA	Image of Amarna Object 35582, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
35582_04.jpg	NA	Image of Amarna Object 35582, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	23-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt