

1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	8761
Monument/Object Description	Small clay mould - Tututkamun
Survey Location	Amarna, Egypt
Survey Date(s)	17-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	0.153
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	8761_01.jpg, 8761_02.jpg, 8761_03.jpg, 8761_04.jpg, , ,

* All Project Information is REQUIRED.

2-Scan Metadata

										Frequency		Camera Exposure	Lense or FOV
Scan Transformation			* Name of monument/object		Number of	Additional	* Scanner	Data	First or Last Return (TOF	Settings (Phase	Noise Settings (Phase scans	Settings (If RGB acquired)(Phase	Details (Triangulation
*Scan Filename	Matrix	Matrix Applied to Scans?	area	* Survey Date	Points in Scan	Scan Notes	Technology	Resolution	scans only)	scans only)	only)	scans only)	scans only)
8761_01	8761_mtrx_01	Yes		8761	17-Mar-2008	20792 NA	Triangulation	0.152934					Tele
8761_02	8761_mtrx_02	Yes		8761	17-Mar-2008	5977 NA	Triangulation	0.152755					Tele
8761_03	8761_mtrx_03	Yes		8761	17-Mar-2008	4790 NA	Triangulation	0.153928					Tele
8761_04	8761_mtrx_04	Yes		8761	17-Mar-2008	8769 NA	Triangulation	0.153187					Tele
8761_05	8761_mtrx_05	Yes		8761	17-Mar-2008	8319 NA	Triangulation	0.152889					Tele
8761_06	8761_mtrx_06	Yes		8761	17-Mar-2008	21484 NA	Triangulation	0.151461					Tele
8761_07	8761_mtrx_07	Yes		8761	17-Mar-2008	19764 NA	Triangulation	0.153492					Tele
8761_08	8761_mtrx_08	Yes		8761	17-Mar-2008	20164 NA	Triangulation	0.153556					Tele

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
8761_GR.txt	0.018	110045
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	8761_GRE.txt	
Number of Points in File		53032
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	8761_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	Y	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		120848
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software	
Additional processing notes	Mesh was color corrected in Rapidform XOR.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	8761_lo.obj	
Total Original Triangle Count		120848
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
8761_01.jpg	NA	Image of Amarna Object 8761, a small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	17-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
8761_02.jpg	NA	Image of Amarna Object 8761, a small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	17-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
8761_03.jpg	NA	Image of Amarna Object 8761, a small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	17-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
8761_04.jpg	NA	Image of Amarna Object 8761, a small clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	17-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt