

1-Project Description

Project Name	Virtual Amarna Project	
Name of monument, survey area, or object	NA	
Monument/Object Number		5239
Monument/Object Description	Wooden artifact	
Survey Location	Amarna, Egypt	
Survey Date(s)		12-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		0.208
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	5239_01.jpg, 5239_02.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	First or Last Return (TOF scans only)	Frequency Settings (Phase scans only)	Noise Settings (Phase scans only)	Camera Exposure Settings (If RGB acquired)(Phase scans only)	Lense or FOV Details (Triangulation scans only)
5239_01	5239_mtrx_01	Yes	5239	12-Mar-2008	207457	NA	Triangulation	0.210156					Mid
5239_02	5239_mtrx_02	Yes	5239	12-Mar-2008	208579	NA	Triangulation	0.210343					Mid
5239_03	5239_mtrx_03	Yes	5239	12-Mar-2008	66146	NA	Triangulation	0.208848					Mid
5239_04	5239_mtrx_04	Yes	5239	12-Mar-2008	74753	NA	Triangulation	0.211533					Mid
5239_05	5239_mtrx_05	Yes	5239	12-Mar-2008	34571	NA	Triangulation	0.207699					Mid
5239_06	5239_mtrx_06	Yes	5239	12-Mar-2008	35213	NA	Triangulation	0.206206					Mid
5239_07	5239_mtrx_07	Yes	5239	12-Mar-2008	42966	NA	Triangulation	0.206519					Mid
5239_08	5239_mtrx_08	Yes	5239	12-Mar-2008	11172	NA	Triangulation	0.205124					Mid

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
5239_GR.txt	0.04	680758

*** All Registration Information is REQUIRED.**

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	5239_GRE.txt	
Number of Points in File		502726
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	5239_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	Y	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		584964
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	Y	
CS Adjustment Matrix	Cannot export from software	
Additional processing notes	Mesh was post processed and color corrected in Rapidform XOR.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	5239_lo.obj	
Total Original Triangle Count		584964
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
5239_01.jpg	NA	Image of Amarna Object 5239, wooden artifact	Center for Advanced Spatial Technologies,Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
5239_02.jpg	NA	Image of Amarna Object 5239, wooden artifact	Center for Advanced Spatial Technologies,Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt