

1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	short_whorl
Monument/Object Description	spindle whorl
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	0.221
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	short_whorl_01.jpg, short_whorl_02.jpg, short_whorl_03.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)
short_whorl_01	short_whorl_mtrx_01	Yes	short_whorl	12-Mar-2008	37022	NA	Triangulation	0.220763	mid
short_whorl_02	short_whorl_mtrx_02	Yes	short_whorl	12-Mar-2008	37806	NA	Triangulation	0.220758	mid
short_whorl_03	short_whorl_mtrx_03	Yes	short_whorl	12-Mar-2008	36268	NA	Triangulation	0.220869	mid
short_whorl_04	short_whorl_mtrx_04	Yes	short_whorl	12-Mar-2008	36978	NA	Triangulation	0.220817	mid
short_whorl_05	short_whorl_mtrx_05	Yes	short_whorl	12-Mar-2008	26686	NA	Triangulation	0.221859	mid
short_whorl_06	short_whorl_mtrx_06	Yes	short_whorl	12-Mar-2008	27663	NA	Triangulation	0.222008	mid
short_whorl_07	short_whorl_mtrx_07	Yes	short_whorl	12-Mar-2008	27304	NA	Triangulation	0.221634	mid

3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
short_whorl_GR.txt	0.045	229707
* All Registration Information is REQUIRED.		

4-Mesh Metadata

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	short_whorl_GRE.txt	
Number of Points in File		174301
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	short_whorl_hi.obj	
Holes Filled	Y	
Smoothing	Y	
Color Editions	Y	
Healing/despiking	Y	
Total Triangle Count (post editing, predecimation)		148170
RGB Color Included	Y	
Data Reduction	N	
Coordinate System Adjustment	N	
CS Adjustment Matrix	NA	
Additional processing notes	Data were color corrected, meshed, and edited in Rapidform XOR.	

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	short_whorl_lo.obj	
Total Original Triangle Count		148170
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
short_whorl_01.jpg	NA	Image of Amarna Object short_whorl, spindle whorl (shorter spindle in image)	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
short_whorl_02.jpg	NA	Image of Amarna Object short_whorl, spindle whorl (shorter spindle in image)	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
short_whorl_03.jpg	NA	Image of Amarna Object short_whorl, spindle whorl (shorter spindle in image)	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt