

## 1-Project Description

<b>Project Name</b>	Virtual Amarna Museum
<b>Name of monument, survey area, or object</b>	NA
<b>Monument/Object Number</b>	34147_23_24
<b>Monument/Object Description</b>	One fragment (#23_24) of a series that form a door jamb
<b>Survey Location</b>	Amarna, Egypt
<b>Survey Date(s)</b>	5-Mar-2009
<b>Survey Conditions</b>	Indoors
<b>Scanner Details</b>	Konica Minolta VIVID 9i; mm; Serial No: 1001198
<b>Company/Operator Name</b>	Center for Advanced Spatial Technologies, Katie Simon
<b>Control data collected?</b>	No
<b>Turntable used?</b>	No
<b>RGB data capture. IF Yes, provide details.</b>	Yes. The VIVID 9i uses internal RGB capture. A three point lighting system was used to illuminate the object from the top and from both sides; this minimized shadows on the object. Each light in the system had 1-3 white light (5000k) flicker free fluorescent bulbs. A 2/2/2 bulb configuration was used throughout the scanning process.
<b>Estimated Data Resolution</b>	0.367
<b>Total Number of Scans in Project</b>	8
<b>Description of final datasets for archive</b>	Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset, image
<b>Planimetric map of scan coverage areas</b>	No
<b>Additional project notes</b>	NA
<b>Images from survey</b>	34147_all.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)
34147_23_24_01	34147_23_24_mtrx_01	Yes	34147_23_24	5-Mar-2009	103884	NA	Triangulation	0.424056	Tele
34147_23_24_02	34147_23_24_mtrx_02	Yes	34147_23_24	5-Mar-2009	59736	NA	Triangulation	0.409465	Tele
34147_23_24_03	34147_23_24_mtrx_03	Yes	34147_23_24	5-Mar-2009	31017	NA	Triangulation	0.403144	Tele
34147_23_24_04	34147_23_24_mtrx_04	Yes	34147_23_24	5-Mar-2009	35663	NA	Triangulation	0.416693	Tele
34147_23_24_05	34147_23_24_mtrx_05	Yes	34147_23_24	5-Mar-2009	104821	NA	Triangulation	0.428025	Tele
34147_23_24_06	34147_23_24_mtrx_06	Yes	34147_23_24	5-Mar-2009	6553	NA	Triangulation	0.429973	Tele
34147_23_24_07	34147_23_24_mtrx_07	Yes	34147_23_24	5-Mar-2009	11480	NA	Triangulation	0.221826	Tele
34147_23_24_08	34147_23_24_mtrx_08	Yes	34147_23_24	5-Mar-2009	14853	NA	Triangulation	0.204124	Tele

### 3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
34147_23_24_GR.txt	0.061	367963
* All Registration Information is REQUIRED.		

#### 4-Mesh Metadata

##### Pre-Meshing Metadata

<b>Name of Pre-Mesh Dataset</b>	34147_23_24_GRE.txt	
<b>Number of Points in File</b>		305059
<b>Overlap Reduction</b>	Y	
<b>Smoothing</b>	N	
<b>Subsampling</b>	N	
<b>Color Editions</b>	N	
<b>Point Deletion Summary</b>	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:

<b>Name of Mesh Dataset</b>	34147_23_24_hi.obj	
<b>Holes Filled</b>	Y	
<b>Smoothing</b>	Y	
<b>Color Editions</b>	N	
<b>Healing/despiking</b>	Y	
<b>Total Triangle Count (post editing, predecimation)</b>		517546
<b>RGB Color Included</b>	Y	
<b>Data Reduction</b>	N	
<b>Coordinate System Adjustment</b>	Y	
<b>CS Adjustment Matrix</b>	Cannot export from software	
<b>Additional processing notes</b>	NA	

##### Decimated Polygonal Mesh Metadata:

<b>Name of Decimated Mesh Dataset</b>	34147_23_24_lo.obj	
<b>Total Original Triangle Count</b>		517546
<b>Decimated Triangle Count</b>		25000
<b>RGB Color Preserved from original dataset</b>		

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
34147_all.jpg	NA	Image of all door jamb pieces	Center for Advanced Spatial Technologies, Katie Simon	5-Mar-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt