

## 1-Project Description

<b>Project Name</b>	Virtual Amarna Project
<b>Name of monument, survey area, or object</b>	NA
<b>Monument/Object Number</b>	36178
<b>Monument/Object Description</b>	clay mould
<b>Survey Location</b>	Amarna, Egypt
<b>Survey Date(s)</b>	22-Mar-2008
<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,Christopher Goodmaster
<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. 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.
<b>Estimated Data Resolution</b>	0.175
<b>Total Number of Scans in Project</b>	5
<b>Description of final datasets for archive</b>	Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset, images
<b>Planimetric map of scan coverage areas</b>	No
<b>Additional project notes</b>	NA
<b>Images from survey</b>	36178_01.jpg, 36178_02.jpg, 36178_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)
36178_01	36178_mtrx_01	Yes	36178	22-Mar-2008	32379	NA	Triangulation	0.176027	Tele
36178_02	36178_mtrx_02	Yes	36178	22-Mar-2008	34129	NA	Triangulation	0.175993	Tele
36178_03	36178_mtrx_03	Yes	36178	22-Mar-2008	27512	NA	Triangulation	0.174912	Tele
36178_04	36178_mtrx_04	Yes	36178	22-Mar-2008	28570	NA	Triangulation	0.17457	Tele
36178_05	36178_mtrx_05	Yes	36178	22-Mar-2008	37438	NA	Triangulation	0.175969	Tele

### 3-Registration Metadata

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
36178_GR.txt	0.049	160017
* All Registration Information is REQUIRED.		

#### 4-Mesh Metadata

##### Pre-Meshing Metadata

<b>Name of Pre-Mesh Dataset</b>	36178_GRE.txt	
<b>Number of Points in File</b>		97711
<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>	36178_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>		62460
<b>RGB Color Included</b>	N	
<b>Data Reduction</b>	N	
<b>Coordinate System Adjustment</b>	Y	
<b>CS Adjustment Matrix</b>	Matrix cannot be exported from software	
<b>Additional processing notes</b>	Color information was removed from final mesh product due to poor color quality.	

##### Decimated Polygonal Mesh Metadata:

<b>Name of Decimated Mesh Dataset</b>	36178_lo.obj	
<b>Total Original Triangle Count</b>		62460
<b>Decimated Triangle Count</b>		25000
<b>RGB Color Preserved from original dataset</b>	N - Color information removed from object.	

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
36178_01.jpg	NA	Image of Amarna Object 36178, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	22-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
36178_02.jpg	NA	Image of Amarna Object 36178, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	22-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
36178_03.jpg	NA	Image of Amarna Object 36178, clay mould	Center for Advanced Spatial Technologies,Christopher Goodmaster	22-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt