Project Name	Virtual Amarna Project
	NA
Monument/Object Number	22
Monument/Object Description	Large offering table
Survey Location	Amarna, Egypt
Survey Date(s)	27-Feb-2009
Survey Conditions	Indoors
Scanner Details	Konica Minolta VIVID 9i; mm; Serial No: 1001198
Company/Operator Name	Center for Advanced Spatial Technologies, Katie Simon
Control data collected?	No
Turntable used?	Not recorded
	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
RGB data capture. IF Yes, provide details.	scanning process.
Estimated Data Resolution	0.62
Total Number of Scans in Project	14
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	22_01.jpg, 22_02.jpg, 22_03.jpg, 22_04.jpg, , ,

\* All Project Information is REQUIRED.

## 2-Scan Metadata

Matrix App       rx_01     Yes       rx_02     Yes       rx_03     Yes       rx_04     Yes       rx_05     Yes	22 22 22 22 22 22			<mark>Scan Notes</mark> JA JA JA		First or Last Data Return (TOF Resolution scans only) 0.639792 0.614618 0.560574	(Phase	(Phase scans	Settings (If RGB acquired)(Phase scans only)	Details (Triangulation scans only) Mid Mid
rx_01 Yes rx_02 Yes rx_03 Yes rx_04 Yes	22 22 22 22 22 22	27-Feb-2009 27-Feb-2009 27-Feb-2009	175501 N 126080 N 39128 N	AI AI AI	Triangulation Triangulation	0.639792 0.614618	scans only)	only)	scans only)	Mid Mid
rx_02 Yes rx_03 Yes rx_04 Yes	22 22 22	27-Feb-2009 27-Feb-2009	126080 N. 39128 N.	IA A	Triangulation	0.614618				Mid
rx_03 Yes rx_04 Yes		27-Feb-2009	39128 N	A	•					
_ rx_04 Yes					Triangulation	0.560574				A 41 1
-		27-Feb-2009	124075 N							Mid
ry 05 Ves			12497311	A	Triangulation	0.609716				Mid
1/_00	22	27-Feb-2009	159583 N	A	Triangulation	0.628261				Mid
rx_06 Yes	22	27-Feb-2009	58837 N	A	Triangulation	0.588267				Mid
rx_07 Yes	22	27-Feb-2009	43055 N	A	Triangulation	0.569033				Mid
rx_08 Yes	22	27-Feb-2009	124546 N	A	Triangulation	0.641471				Mid
rx_09 Yes	22	27-Feb-2009	35556 N	A	Triangulation	0.540393				Mid
rx_10 Yes	22	27-Feb-2009	56316 N	A	Triangulation	0.540069				Mid
rx_11 Yes	22	27-Feb-2009	64494 N	A	Triangulation	0.524878				Mid
rx_12 Yes	22	27-Feb-2009	49045 N	A	Triangulation	0.529271				Mid
rx_13 Yes	22	27-Feb-2009	66893 N	A	Triangulation	0.546366				Mid
rx_14 Yes	22	27-Feb-2009	75472 N	A	Triangulation	0.529228				Mid
n n n n	-     -       x_06     Yes       x_07     Yes       x_08     Yes       x_09     Yes       x_10     Yes       x_11     Yes       x_12     Yes       x_13     Yes	- -   x_00 Yes   x_07 Yes   x_08 Yes   x_09 Yes   x_10 Yes   x_11 Yes   x_12 Yes   x_13 Yes	- -   x_06 Yes   22 27-Feb-2009   x_07 Yes   22 27-Feb-2009   x_08 Yes   22 27-Feb-2009   x_09 Yes   22 27-Feb-2009   x_10 Yes   22 27-Feb-2009   x_11 Yes   22 27-Feb-2009   x_12 Yes   23 27-Feb-2009   x_13 Yes   24 27-Feb-2009	- - - - -   x_06 Yes 22 27-Feb-2009 58837 M   x_07 Yes 22 27-Feb-2009 43055 M   x_08 Yes 22 27-Feb-2009 124546 M   x_09 Yes 22 27-Feb-2009 35556 M   x_10 Yes 22 27-Feb-2009 56316 M   x_11 Yes 22 27-Feb-2009 66494 M   x_12 Yes 22 27-Feb-2009 49045 M   x_13 Yes 22 27-Feb-2009 66893 M	-   -   22   27-Feb-2009   58837 NA     x_007   Yes   22   27-Feb-2009   43055 NA     x_008   Yes   22   27-Feb-2009   124546 NA     x_009   Yes   22   27-Feb-2009   35556 NA     x_10   Yes   22   27-Feb-2009   56316 NA     x_11   Yes   22   27-Feb-2009   64494 NA     x_12   Yes   22   27-Feb-2009   49045 NA     x_13   Yes   22   27-Feb-2009   66893 NA	x_06     Yes     22     27-Feb-2009     58837 NA     Triangulation       x_07     Yes     22     27-Feb-2009     43055 NA     Triangulation       x_08     Yes     22     27-Feb-2009     43055 NA     Triangulation       x_08     Yes     22     27-Feb-2009     124546 NA     Triangulation       x_09     Yes     22     27-Feb-2009     35556 NA     Triangulation       x_10     Yes     22     27-Feb-2009     56316 NA     Triangulation       x_11     Yes     22     27-Feb-2009     64494 NA     Triangulation       x_12     Yes     22     27-Feb-2009     64494 NA     Triangulation       x_13     Yes     22     27-Feb-2009     66893 NA     Triangulation	x_06   Yes   22   27-Feb-2009   58837 NA   Triangulation   0.588267     x_07   Yes   22   27-Feb-2009   43055 NA   Triangulation   0.569033     x_08   Yes   22   27-Feb-2009   124546 NA   Triangulation   0.641471     x_09   Yes   22   27-Feb-2009   35556 NA   Triangulation   0.540393     x_10   Yes   22   27-Feb-2009   56316 NA   Triangulation   0.540069     x_11   Yes   22   27-Feb-2009   64494 NA   Triangulation   0.524878     x_12   Yes   22   27-Feb-2009   49045 NA   Triangulation   0.529271     x_13   Yes   22   27-Feb-2009   66893 NA   Triangulation   0.546366	x_06   Yes   22   27-Feb-2009   58837 NA   Triangulation   0.588267     x_07   Yes   22   27-Feb-2009   43055 NA   Triangulation   0.569033     x_08   Yes   22   27-Feb-2009   124546 NA   Triangulation   0.641471     x_09   Yes   22   27-Feb-2009   35556 NA   Triangulation   0.540393     x_10   Yes   22   27-Feb-2009   56316 NA   Triangulation   0.540069     x_11   Yes   22   27-Feb-2009   64494 NA   Triangulation   0.524878     x_12   Yes   22   27-Feb-2009   49045 NA   Triangulation   0.529271     x_13   Yes   22   27-Feb-2009   66893 NA   Triangulation   0.546366	x26Yes2227-Feb-200958837 NATriangulation0.588267x_07Yes2227-Feb-200943055 NATriangulation0.569033x_08Yes2227-Feb-2009124546 NATriangulation0.641471x_09Yes2227-Feb-200935556 NATriangulation0.540393x_10Yes2227-Feb-200956316 NATriangulation0.540069x_11Yes2227-Feb-200964494 NATriangulation0.524878x_12Yes2227-Feb-200966893 NATriangulation0.529271x_13Yes2227-Feb-200966893 NATriangulation0.546366	x227-Feb-200958837 NATriangulation0.588267x07Yes2227-Feb-200943055 NATriangulation0.569033x08Yes2227-Feb-2009124546 NATriangulation0.641471x09Yes2227-Feb-200935556 NATriangulation0.540393x10Yes2227-Feb-200956316 NATriangulation0.540069x11Yes2227-Feb-200964494 NATriangulation0.524878x12Yes2227-Feb-200966893 NATriangulation0.529271x13Yes2227-Feb-200966893 NATriangulation0.546366

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
22_GR.txt	0.012	1199300

\* All Registration Information is REQUIRED.

## 4-Mesh Metadata

Pre-Meshing Metadata	
Name of Pre-Mesh Dataset	22_GRE.txt
Number of Points in File	701980
Overlap Reduction	Y
Smoothing	Ν
Subsampling	Ν
Color Editions	Ν
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	22_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	Ν
Healing/despiking	Y
Total Triangle Count (post editing,	
predecimation)	1697676
RGB Color Included	Y
Data Reduction	Ν
Coordinate System Adjustment	Y
CS Adjustment Matrix	Cannot export from software
Additional processing notes	Mesh was post processed (including hole filling and smoothing operations) in Rapidform XOR.

Decimated Polygonal Mesh Metadata:							
Name of Decimated Mesh Dataset	22_lo.obj						
Total Original Triangle Count	1697676						
Decimated Triangle Count	25000						
RGB Color Preserved from original							
dataset	Y						

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
22_01.jpg	NA	Image of Amarna Object 22, a large offering table	Center for Advanced Spatial Technologies, Katie Simon	27-Feb-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
22_02.jpg	NA	Image of Amarna Object 22, a large offering table	Center for Advanced Spatial Technologies, Katie Simon	27-Feb-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
22_03.jpg	NA	Image of Amarna Object 22, a large offering table	Center for Advanced Spatial Technologies, Katie Simon	27-Feb-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
22_04.jpg	NA	Image of Amarna Object 22, a large offering table	Center for Advanced Spatial Technologies, Katie Simon	27-Feb-2009	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt