## 1-Project Description

| Project Name | Virtual Amarna Project |
| :---: | :---: |
| Name of monument, survey area, or object | NA |
| Monument/Object Number | 56217 |
| Monument/Object Description | Pottery stand |
| Survey Location | Amarna, Egypt |
| Survey Date(s) | 5-Mar-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? | No |
| RGB data capture. IF Yes, provide details. | 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. |
| Estimated Data Resolution | 0.419 |
| Total Number of Scans in Project | 30 |
| Description of final datasets for archive | Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset |
| Planimetric map of scan coverage areas | No |
| Additional project notes | NA |
| Images from survey | None Available |

* All Project Information is REQUIRED.

| *Scan Filename | Scan Transformation Matrix | Matrix Applied to Scans? | * Name of monument/object area | * Survey Date | Number of Points in Scan | Additional <br> Scan Notes | * Scanner Technology | Data <br> Resolution | Lense or FOV Details <br> (Triangulation scans only) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 56217_01 | 56217_mtrx_01 | Yes | 56217 | 5-Mar-2009 | 194349 | NA | Triangulation | 0.383653 | Mid |
| 56217_02 | 56217_mtrx_02 | Yes | 56217 | 5-Mar-2009 | 214825 |  | Triangulation | 0.381313 |  |
| 56217_03 | 56217_mtrx_03 | Yes | 56217 | 5-Mar-2009 | 2051 |  | Triangulation | 0.443862 |  |
| 56217_04 | 56217_mtrx_04 | Yes | 56217 | 5-Mar-2009 | 199444 |  | Triangulation | 0.379852 |  |
| 5621705 | 56217 mtrx 05 | Yes | 56217 | 5-Mar-2009 | 187702 |  | Triangulation | 0.384862 |  |
| 56217_06 | 56217_mtrx_06 | Yes | 56217 | 5-Mar-2009 | 183266 |  | Triangulation | 0.419798 |  |
| 56217_07 | 56217_mtrx_07 | Yes | 56217 | 5-Mar-2009 | 174788 |  | Triangulation | 0.421265 |  |
| 56217_08 | 56217_mtrx_08 | Yes | 56217 | 5-Mar-2009 | 170598 |  | Triangulation | 0.41953 |  |
| 56217_09 | 56217_mtrx_09 | Yes | 56217 | 5-Mar-2009 | 188026 |  | Triangulation | 0.419413 |  |
| 56217_10 | 56217_mtrx_10 | Yes | 56217 | 5-Mar-2009 | 188745 |  | Triangulation | 0.427336 |  |
| 56217_11 | 56217_mtrx_11 | Yes | 56217 | 5-Mar-2009 | 186425 |  | Triangulation | 0.425684 |  |
| 56217_12 | 56217_mtrx_12 | Yes | 56217 | 5-Mar-2009 | 100828 |  | Triangulation | 0.437622 |  |
| 56217_13 | 56217_mtrx_13 | Yes | 56217 | 5-Mar-2009 | 100291 |  | Triangulation | 0.435742 |  |
| 56217_14 | 56217_mtrx_14 | Yes | 56217 | 5-Mar-2009 | 88746 |  | Triangulation | 0.435789 |  |
| 56217_15 | 56217_mtrx_15 | Yes | 56217 | 5-Mar-2009 | 97617 |  | Triangulation | 0.436957 |  |
| 56217_16 | 56217_mtrx_16 | Yes | 56217 | 5-Mar-2009 | 101319 |  | Triangulation | 0.445524 |  |
| 56217_17 | 56217_mtrx_17 | Yes | 56217 | 5-Mar-2009 | 102250 |  | Triangulation | 0.446391 |  |
| 56217_18 | 56217_mtrx_18 | Yes | 56217 | 5-Mar-2009 | 217001 |  | Triangulation | 0.467516 |  |
| 56217_19 | 56217_mtrx_19 | Yes | 56217 | 5-Mar-2009 | 112389 |  | Triangulation | 0.451928 |  |
| 56217_20 | 56217_mtrx_20 | Yes | 56217 | 5-Mar-2009 | 207585 |  | Triangulation | 0.425719 |  |
| 56217_21 | 56217_mtrx_21 | Yes | 56217 | 5-Mar-2009 | 186089 |  | Triangulation | 0.459614 |  |
| 56217_22 | 56217_mtrx_22 | Yes | 56217 | 5-Mar-2009 | 216839 |  | Triangulation | 0.461038 |  |
| 56217_23 | 56217_mtrx_23 | Yes | 56217 | 5-Mar-2009 | 184977 |  | Triangulation | 0.483404 |  |
| 56217_24 | 56217_mtrx_24 | Yes | 56217 | 5-Mar-2009 | 207813 |  | Triangulation | 0.453321 |  |
| 56217_25 | 56217_mtrx_25 | Yes | 56217 | 5-Mar-2009 | 35172 |  | Triangulation | 0.329053 |  |
| 56217_26 | 56217_mtrx_26 | Yes | 56217 | 5-Mar-2009 | 15653 |  | Triangulation | 0.340895 |  |
| 56217_27 | 56217_mtrx_27 | Yes | 56217 | 5-Mar-2009 | 22682 |  | Triangulation | 0.348639 |  |
| 56217_28 | 56217_mtrx_28 | Yes | 56217 | 5-Mar-2009 | 22261 |  | Triangulation | 0.3522 |  |
| 56217_29 | 56217_mtrx_29 | Yes | 56217 | 5-Mar-2009 | 75501 |  | Triangulation | 0.416503 |  |
| 56217_30 | 56217_mtrx_30 | Yes | 56217 | 5-Mar-2009 | 60095 |  | Triangulation | 0.433281 |  |


| Name of Registered <br> Dataset | Global <br> Registration <br> Error in units | Total number of <br> points in final <br> registration |
| :--- | :--- | :--- |
| $56217 \_$GR.txt | 0.084 | 4044975 |
| * All Registration Information is REQUIRED. |  |  |

Pre-Meshing Metadata

| Name of Pre-Mesh Dataset | 56217_GRE.txt |
| :--- | :--- |
| Number of Points in File | Y |
| Overlap Reduction | N |
| Smoothing | N |
| Subsampling | N |
| Color Editions | 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 | 56217 _hi.obj |
| :--- | :--- |
| Holes Filled | Y |
| Smoothing | Y |
| Color Editions | N |
| Healing/despiking | Y |
| Total Triangle Count (post editing, |  |
| predecimation) | Y |
| RGB Color Included | N |
| Data Reduction | N |
| Coordinate System Adjustment | NA |
| CS Adjustment Matrix | Data were color corrected, meshed, and edited in Rapidform XOR. |
| Additional processing notes |  |

Decimated Polygonal Mesh Metadata:

| Name of Decimated Mesh Dataset | 56217_lo.obj |
| :--- | :--- |
| Total Original Triangle Count |  |
| Decimated Triangle Count <br> RGB Color Preserved from original <br> dataset |  |

