## 1-Project Description

| Project Name | Virtual Amarna Project |
| :---: | :---: |
| Name of monument, survey area, or object | NA |
| Monument/Object Number | 50177 |
| Monument/Object Description | Pottery stand |
| Survey Location | Amarna, Egypt |
| Survey Date(s) | Unknown |
| 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 ( 5000 k ) flicker free fluorescent bulbs. A $2 / 2 / 2$ bulb configuration was used throughout the scanning process. |
| Estimated Data Resolution | 0.374 |
| Total Number of Scans in Project | 26 |
| 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 Resolution | Lense or FOV Details (Triangulation scans only) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 50177_01 | 50177_mtrx_01 | Yes | 50177 | Unknown | 98964 | NA | Triangulation | 0.368498 |  |
| 50177_02 | 50177_mtrx_02 | Yes | 50177 | Unknown | 92088 | NA | Triangulation | 0.36517 |  |
| 50177_03 | 50177_mtrx_03 | Yes | 50177 | Unknown | 90578 | NA | Triangulation | 0.364944 |  |
| 50177_04 | 50177_mtrx_04 | Yes | 50177 | Unknown | 91330 | NA | Triangulation | 0.364833 |  |
| 50177_05 | 50177_mtrx_05 | Yes | 50177 | Unknown | 104124 | NA | Triangulation | 0.366603 |  |
| 50177_06 | 50177_mtrx_06 | Yes | 50177 | Unknown | 103156 |  | Triangulation | 0.36829 |  |
| 50177_07 | 50177_mtrx_07 | Yes | 50177 | Unknown | 52449 | NA | Triangulation | 0.363142 |  |
| 50177_08 | 50177_mtrx_08 | Yes | 50177 | Unknown | 49680 | NA | Triangulation | 0.362505 |  |
| 50177_09 | 50177_mtrx_09 | Yes | 50177 | Unknown | 51900 | NA | Triangulation | 0.360788 |  |
| 50177_10 | 50177_mtrx_10 | Yes | 50177 | Unknown | 51156 | NA | Triangulation | 0.361238 |  |
| 50177_11 | 50177_mtrx_11 | Yes | 50177 | Unknown | 52524 | NA | Triangulation | 0.36695 |  |
| 50177_12 | 50177_mtrx_12 | Yes | 50177 | Unknown | 51265 | NA | Triangulation | 0.36902 |  |
| 50177_13 | 50177_mtrx_13 | Yes | 50177 | Unknown | 71593 | NA | Triangulation | 0.379269 |  |
| 50177_14 | 50177_mtrx_14 | Yes | 50177 | Unknown | 69818 |  | Triangulation | 0.372613 |  |
| 50177_15 | 50177_mtrx_15 | Yes | 50177 | Unknown | 55303 | NA | Triangulation | 0.367457 |  |
| 50177_16 | 50177_mtrx_16 | Yes | 50177 | Unknown | 61928 | NA | Triangulation | 0.36717 |  |
| 50177_17 | 50177_mtrx_17 | Yes | 50177 | Unknown | 62809 | NA | Triangulation | 0.372064 |  |
| 50177_18 | 50177_mtrx_18 | Yes | 50177 | Unknown | 59685 | NA | Triangulation | 0.377591 |  |
| 50177_19 | 50177_mtrx_19 | Yes | 50177 | Unknown | 57932 | NA | Triangulation | 0.357792 |  |
| 50177_20 | 50177_mtrx_20 | Yes | 50177 | Unknown | 155641 | NA | Triangulation | 0.399694 |  |
| 50177_21 | 50177_mtrx_21 | Yes | 50177 | Unknown | 12192 | NA | Triangulation | 0.395786 |  |
| 50177_22 | 50177_mtrx_22 | Yes | 50177 | Unknown | 29947 | NA | Triangulation | 0.398838 |  |
| 50177_23 | 50177_mtrx_23 | Yes | 50177 | Unknown | 14518 | NA | Triangulation | 0.405865 |  |
| 50177_24 | 50177_mtrx_24 | Yes | 50177 | Unknown | 10954 | NA | Triangulation | 0.403625 |  |
| 50177_25 | 50177_mtrx_25 | Yes | 50177 | Unknown | 21062 |  | Triangulation | 0.379035 |  |
| 50177_26 | 50177_mtrx_26 | Yes | 50177 | Unknown | 15252 | NA | Triangulation | 0.374126 | Mid |


| Name of Registered <br> Dataset | Global <br> Registration <br> Error in units | Total number of <br> points in final <br> registration |
| :--- | :--- | :--- |
| $50177 \_$GR.txt | 0.074 | 1587677 |
| * All Registration Information is REQUIRED. |  |  |

Pre-Meshing Metadata

| Name of Pre-Mesh Dataset | 50177_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 | 50177 _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 | NA |
| Additional processing notes |  |

Decimated Polygonal Mesh Metadata:

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

