## 1-Project Description

| Project Name | Virtual Amarna Museum |
| :---: | :---: |
| Name of monument, survey area, or object | NA |
| Monument/Object Number | 34147_38 |
| Monument/Object Description | One fragment (\#38) of a series that form a door jamb |
| 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 ( 5000 k ) flicker free fluorescent bulbs. A $2 / 2 / 2$ bulb configuration was used throughout the scanning process. |
| Estimated Data Resolution | 0.239 |
| Total Number of Scans in Project | 12 |
| Description of final datasets for archive | Original scans, registered dataset, premesh dataset. mesh dataset, decimated mesh dataset, image |
| Planimetric map of scan coverage areas | No |
| Additional project notes | NA |
| Images from survey | 34147_all.jpg |

* 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 Scan Notes | * Scanner Technology | Data Resolution | Lense or FOV Details (Triangulation scans only) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 34147_38_01 | 34147_38_mtrx_01 | Yes | 34147_38 | 5-Mar-2009 | 61390 | NA | Triangulation | 0.241557 |  |
| 34147_38_02 | 34147_38_mtrx_02 | Yes | 34147_38 | 5-Mar-2009 | 47609 | NA | Triangulation | 0.238387 | Tele |
| 34147_38_03 | 34147_38_mtrx_03 | Yes | 34147_38 | 5-Mar-2009 | 13700 | NA | Triangulation | 0.235539 | Tele |
| 34147_38_04 | 34147_38_mtrx_04 | Yes | 34147_38 | 5-Mar-2009 | 55108 | NA | Triangulation | 0.239351 | Tele |
| 34147_38_05 | 34147_38_mtrx_05 | Yes | 34147_38 | 5-Mar-2009 | 39344 | NA | Triangulation | 0.238012 | Tele |
| 34147_38_06 | 34147_38_mtrx_06 | Yes | 34147_38 | 5-Mar-2009 | 21382 | NA | Triangulation | 0.238514 | Tele |
| 34147_38_07 | 34147_38_mtrx_07 | Yes | 34147_38 | 5-Mar-2009 | 66686 | NA | Triangulation | 0.242194 | Tele |
| 34147_38_08 | 34147_38_mtrx_08 | Yes | 34147_38 | 5-Mar-2009 | 38406 | NA | Triangulation | 0.237106 | Tele |
| 34147_38_09 | 34147_38_mtrx_09 | Yes | 34147_38 | 5-Mar-2009 | 17405 | NA | Triangulation | 0.238216 | Tele |
| 34147_38_10 | 34147_38_mtrx_10 | Yes | 34147_38 | 5-Mar-2009 | 55062 | NA | Triangulation | 0.239223 | Tele |
| 34147_38_11 | 34147_38_mtrx_11 | Yes | 34147_38 | 5-Mar-2009 | 17009 | NA | Triangulation | 0.236684 | Tele |
| 34147_38_12 | 34147_38_mtrx_12 | Yes | 34147_38 | 5-Mar-2009 | 28049 | NA | Triangulation | 0.239336 | Tele |


| Name of Registered | Global <br> Registration <br> Error in units | Total number of <br> points in final <br> registration |
| :--- | :--- | :--- |
| $34147 \_38 \_G R . t x t$ | 0.034 | 461080 |
| * All Registration Information is REQUIRED. |  |  |

Pre-Meshing Metadata

| Name of Pre-Mesh Dataset | $34147 \_38 \_$GRE.txt |
| :--- | :--- |
| Number of Points in File |  |
| 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 | $34147 \_38 \_$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 | Y |
| Coordinate System Adjustment | Cannot export from software |
| CS Adjustment Matrix | NA |
| Additional processing notes | 479264 |

Decimated Polygonal Mesh Metadata:

| Name of Decimated Mesh Dataset | 34147_38_lo.obj |
| :--- | :--- |
| Total Original Triangle Count |  |
| Decimated Triangle Count |  |
| RGB Color Preserved from original |  |
| dataset |  |

