

Geospatial Modeling & Visualization

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Konica-Minota Vivid 9i

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The Konica-Minolta VIVID 9i is a short range, high resolution color scanning system. This instrument captures micron-level detail of small objects. Though the VIVID 9i has a small field of view, users can scan objects of unlimited size using specialized field techniques. This scanner features an on-board VGA digital camera allowing color textures to be mapped onto the 3D surface data. While it is best suited for use in a laboratory or indoor environment, with minor field modifications it can be used across a variety of on-site locations. An optional calibrated turntable, when used in conjunction with the VIVID 9i, serves to automate the scanning process and expands the utility of the instrument. The use of a professional lighting system is typically required to ensure accurate color capture with this instrument.

Technical specifications on the system are provided [here](#). More details on the system are available at the [Konica-Minolta web site](#).

Since the acquisition of this instrument by CAST, it has been used for a number of major projects, at locations around the U.S. and abroad:

[The Virtual Hampson Museum](#) - Visitors to this "virtual" on-line museum will be able to interact with 3D recreations of some of the most extraordinary examples of Native American pottery in North America, from the [Hampson Archaeological Museum State Park](#) in Wilson, Arkansas.

[Laser scanning at Tiwanaku](#) - In the summer of 2006, researchers from CAST continued 3D documentation of this UNESCO World Heritage site in Bolivia. The VIVID 9i was incorporated to scan artifacts and architectural details.

[The Amarna 3D scanning project](#) - Researchers from CAST, working with the Amarna Trust and the University of Cambridge, used the VIVID 9i to collect high-definition scans



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