Analysis of a seventeenth-century panel painting by reflection terahertz time-domain imaging (THz-TDI): Contribution of ultrafast optics to museum collections inspection

Terahertz time-domain imaging (THz-TDI) has been applied for nondestructive visualization of a hidden painting and other subsurface composition layers of a seventeenth-century panel painting belonging to the National Gallery of Denmark. Plan-type and cross-sectional scans realized by THz have been compared with images obtained by X-radiography, thus helping in a deep understanding of the strengths and limitations of this technique for art diagnostic purposes and in defining its role among the other complementary investigation tools for nondestructive inspection of art pieces.

General information
Publication status: Published
Organisations: Department of Photonics Engineering, Teraherts Technologies and Biophotonics, Statens Museum for Kunst
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Pages: 981-986
Publication date: 2015
Peer-reviewed: Yes

Publication Information
Volume: 121
Issue number: 3
ISSN (Print): 0947-8396
Ratings:
BFI (2015): BFI-level 1
Scopus rating (2015): CiteScore 1.38 SJR 0.1 SNIP 0
Web of Science (2015): Impact factor 1.444
Web of Science (2015): Indexed yes
Original language: English
DOIs: 10.1007/s00339-015-9303-0
Source: PublicationPreSubmission
Source-ID: 112200927
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review