

标题: Terahertz Gray-Scale Imaging Using Spatial Frequency Domain Analysis

作者: Lv, ZH (Lv, Zhihui); Sun, L (Sun, Lin); Zhang, DW (Zhang, Dongwen); Yuan, JM (Yuan, Jianmin)

编者: Yao J; Zhang XC; Yan D; Liu J

来源出版物: PHOTONICS AND OPTOELECTRONICS MEETINGS (POEM) 2011: LASER AND TERAHERTZ SCIENCE AND TECHNOLOGY??丛书: Proceedings of SPIE??卷: 8330??

文献号: 83301A??DOI: 10.1117/12.920468??出版年: 2012??

在 Web of Science 中的被引频次: 0

被引频次合计: 0

引用的参考文献数: 4

摘要: We reported a technology of gray-scale imaging using broadband terahertz pulse. Utilizing the spatial distribution of different frequency content, image information can be acquired from the terahertz frequency domain analysis. Unlike CCDs(charge-coupled devices) or spot scanning technology are used in conversional method, a single-pixels detector with single measurement can meet the demand of our scheme. And high SNR terahertz imaging with fast velocity is believed.

入藏号: WOS:000304667100043

语种: English

文献类型: Proceedings Paper

会议名称: 4th International Photonics and Optoelectronics Meetings (POEM) - Laser and Terahertz Science and Technology/10th International Conference on Photonics and Imaging in Biology and Medicine (PIBM)

会议日期: NOV 02-05, 2011

会议地点: Wuhan, PEOPLES R CHINA

会议赞助商 : Wuhan Natl Lab Optoelect, Huazhong Univ Sci & Technol, China Hubei Prov Sci & Technol Dept, Wuhan E Lake Natl Innovat Model Zone (Opt Valley China, OVC), Opt Soc, Hubei Prov Foreign Experts Affairs Bur, Natl Nat Sci Fdn Comm (NNSFC)

作者关键词: terahertz imaging; gray scale; spatial frequency Domain analysis

地址: [Lv, Zhihui; Sun, Lin; Zhang, Dongwen; Yuan, Jianmin] Natl Univ Def Technol, Coll Sci, Changsha 410073, Hunan, Peoples R China

通讯作者地址: Lv, ZH (通讯作者),Natl Univ Def Technol, Coll Sci, Changsha 410073, Hunan, Peoples R China

电子邮件地址: lucky.lzh@gmail.com

出版商: SPIE-INT SOC OPTICAL ENGINEERING

出版商地址: 1000 20TH ST, PO BOX 10, BELLINGHAM, WA 98227-0010 USA

Web of Science 分类: Optics

学科类别: Optics

IDS 号: BAM23

ISSN: 0277-786X

ISBN: 978-0-8194-8987-6

29 字符的来源出版物名称缩写: PROC SPIE

来源出版物页码计数: 6