Title (en)

ULTRAVIOLET, INFRARED, AND NEAR-INFRARED LIDAR SYSTEM AND METHOD

Title (de)

ULTRAVIOLETT-, INFRAROT- UND NAHINFRAROT-LIDAR-SYSTEM UND -VERFAHREN

Title (fr)

PROCEDE ET SYSTEME LIDAR PROCHE INFRAROUGE, INRAROUGE ET ULTRAVIOLET

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004065984A1] Pushbroom and flash lidar operations outside the visible spectrum, most preferably in near-IR but also in IR and UV, are enabled by inserting - ahead of a generally conventional lidar receiver front end - a device that receives light scattered from objects and in response forms corresponding light of a different wavelength from the scattered light. Detailed implementations using arrays of discrete COTS components - most preferably PIN diodes and VCSELs, with intervening semicustom amplifiers - are discussed, as is use of a known monolithic converter. Differential and ratioing multispectral measurements, particularly including UV data, are enabled through either spatial-sharing (e.g. plural-slit) or time-sharing.

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G01S 7/486; G01S 17/89

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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