For Immediate Release

International Radiation Detectors, Inc. (IRD) Introduces Absolute X-ray Photodiodes

January , 2009 – Torrance, CA – International Radiation Detectors, Inc. (IRD), the premier manufacturer of semiconductor radiation sensors for detecting photons and other particles, announces the AXUV100GX Absolute X-ray Photodiode. The x-ray detector possesses known active silicon thicknesses and 100% internal quantum efficiency, making possible absolute measurement of x-ray flux with energies 100 keV and beyond.

IRD’s AXUV 100GX photodiodes feature 10 mm x 10 mm square active area with room temperature operations and small detector footprint. AXUV 100GX is simple to use as, unlike other x-ray detectors, no external voltage is needed for operation. Nitrided oxide front window of the AXUV 100GX diode provides up to a Gigarad (SiO2) of radiation hardness, 10,000 times greater than that of commonly available PIN silicon photodiodes. Photodiodes with directly deposited thin metallic filters are available for reducing response to visible light by several orders of magnitude.

IRD’s advanced sensors are being used by synchrotron scientists all over the world, and by the space scientist for the solar spectrum studies. IRD’s AXUV 100GX silicon photodiodes are available now.

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International Radiation Detectors, Inc. (IRD) www.ird-inc.com – Based in Torrance, CA, IRD is a leader in the design and manufacture of semiconductor radiation devices that detect photons and other particles. Since 1991, International Radiation Detectors has specialized in radiation sensors for the measurement of visible, ultraviolet, extreme ultraviolet (XUV, also known as EUV) and soft x-ray photons. IRD offers the most advanced, long-operational-life photodiodes available with extremely high quantum efficiency and radiation hardness. IRD is the only NIST-approved vendor for silicon photodiode transfer standards in the 5 nm to 250 nm spectral region. For more information, please visit: www.ird-inc.com.
AXUV100 Housing, to Scale
(Chip not to scale)

Dimensions in mm [inches]

- Glass
- Epoxy on wirebonds
- Cathode
- Anode
- Silicon chip without back gold

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES DECADES
ANGULAR DRAWING TO SCALE

DRAWN J. SPRUNCK DATE 12/12/06
CHECKED

International Radiation Detectors
Proprietary Information.