

# Vanadium (V)

Vanadium Oxide (Vox) is the most widely used material for IR-detectors. To accommodate the growing demand Vital Thin Film Materials (VTFM) now offers high-purity Vanadium in a wide range of geometries to accommodate most commercially available PVD systems. As IR sensors gain mass-adoption economies of scale are realized; that is where Vital comes in. Our targets make your systems run better.

An infrared (IR) detector is a detector that provides a measurable response to radiant energy in the infrared. Two primary types of IR detectors are photodetectors and thermal detectors. Requirements for additional security within public settings such as airports, offices, hotels and hospitals have fueled growth within the IR detector market.

In parallel, rising demand from consumer electronics applications such as smart TVs, tablets and smartphones is also expected to boost the sale of IR detectors. As with every technology cycle, continuous improvements to maximize SWaP (Size, Weight and Power) characteristics will inevitably enable new markets and applications for IR detectors.

Purity	Density	O <sub>2</sub> Content	Max Size
≥4N5 (99.995%)	≥ 99.5% of th. density	≤300ppm	Ø360mm

VTFM is ISO9001, ISO14001, ISO14021 and OHSAS18001 certified.

