

WAFER CASSETTE NIGHT VISION DEVICE

ABSTRACT OF THE DISCLOSURE

A wafer cassette night vision device includes a wafer cassette receiving a plurality of wafers arranged side by side therein, a plurality of gap portions, a wafer transfer apparatus, a robotic arm, and a night vision device. The night vision device includes an infrared emitting element, a radiation detecting element, and an image converting element that generates a visible light image. A status detection module and a control module are also included. Before the wafer transfer apparatus grips the wafers, the infrared emitting element first projects infrared light into the gap portions, and the radiation detecting element receives reflected light and the image converting element generates the visible light image, so that the status detection module determines the storage status of the wafers deep inside the gap portions, and finally, the control module determines action of the robotic arm to prevent the wafers from breaking caused by abnormal storage status.

FIG. 2