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Barcode Detector Camera Mounting Fixture Assembly

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Abstract: *The project focuses on the design and installation of a mounting device for camera with barcode detector, intended to provide an efficient and stable platform for barcode scanning systems. The main objective is to create a mounting solution that guarantees that the camera remains fixed in an optimal position to capture high quality barcode images, minimizing distortions and errors in the scan. This project involves the design of a robust and adjustable luminaire, using materials that can offer durability while maintaining ease of use. The assembly process will involve the integration of various mechanical components, such as adjustable supports, stabilizers and positioning supports, to adapt to different models of cameras and environments. This will test the device in terms of its stability, ability to adjust and precision in scanning barcodes, which will guarantee a perfect functioning for inventory management, retail sales and other applications driven by barcodes. The final design will prioritize ease of installation, cost-effectiveness and the ability to handle a wide range of operating environments, providing an essential tool for efficient barcode detection systems.*

Keywords: Barcode scanning, Camera mounting fixture, Barcode detection system, Adjustable camera mount Industrial automation, Scanning accuracy

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