While Digital Still Cameras commonly use optical image stabilization, it was not included in smartphones. The Nokia Lumia 920 is the first smartphone featuring an OIS function.

To perform Optical Image Stabilization, the camera module includes a floating lens technology which consists in moving the 5-elements lens module in perfect synchronization with the camera movement.

The camera movement is measured with a dual-core 3-axis gyroscope from STMicroelectronics included in the camera module. Instead of using two dedicated sensors, Nokia chose to integrate a single gyroscope for both gesture recognition and camera image stabilization, allowing cost and board space savings.

The camera module of the Nokia Lumia 920 also provides true 16:9/4:3 aspect ratios by the use of a custom CMOS Image Sensor (CIS) manufactured by Sony. The CIS features a 8.7 megapixel resolution, 1.4µm pixel size, and uses a Back-Side Illuminated (BSI) technology.

This report provides a complete teardown of the camera module with:

- Detailed photos
- Material analysis
- Schematic assembly description
- Manufacturing Process Flow
- In-depth manufacturing cost analysis
- Supply chain evaluation
- Selling price estimation
Please process my order for “Nokia 920 Camera Module” Reverse Costing Analysis:

Ref.: RP119

☐ Multi-User License Price: EURO 2,990*

*For price in dollars please use the day’s exchange rate

*All reports are delivered electronically in pdf format

*For French customer, add 19.6 % for VAT

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