Fujitsu Iris Authentication Module - IR Camera Module & IR LED - Reverse Costing Analysis

Description: Biometric authentication for smartphones with fingerprint sensors has been introduced by Apple in 2013 and became de facto standard in 2015 for high-end smartphones. Fujitsu is the first to try to introduce iris scan as the next biometric technology. This move could pave the way for the future, as we recall Fujitsu as a first mover on the fingerprint wave.

The Fujitsu Arrows NX F-04G unlocks the device and allows web login by simply looking at the screen. It uses Delta ID’s ActiveIRIS™ Technology and has been developed with the concept of a quick and easy user experience. Iris authentication is a biometric authentication system that uses the pattern of the iris in the human eye. This technology allows the screen to be unlocked very fast, and eliminates the need for inputting passwords or patterns.

The iris recognition system is composed of two elements: an Infrared Camera Module & an Infrared LED. Compared to fingerprint sensors, Fujitsu claims that the solution features a faster, safer and more secure authentication. It is also a cost effective solution due to the reuse of standard CIS and LED components.

OSRAM is the IR LED manufacturer and has designed this 810nm LED exclusively for this iris scan application. Sunny is taking a big risk with the manufacturing of the IR camera module, and integrates a state-of-the-art CMOS image sensor using a BSI process with a surprising element!

This report describes the supply chain of all the system (Camera Module, CIS, LED), cost and price calculations for the IR camera and the IR LED are performed.

Contents: 1. Introduction

2. Company Profiles & Supply Chain

3. IR LED Physical Analysis
   - Physical Analysis Methodology
   - IR LED Package
   - Package Views & Dimensions
   - Package Disassembly
   - Package Cross-Section
   - IR LED Die
   - Die View & Dimensions
   - Die Cross-Section

4. IR LED Manufacturing Process
   - Global Overview
   - LED Die Process Flow
   - LED Die Fabrication Unit
   - Packaging Process
   - Packaging Assembly Unit

5. IR LED Cost Analysis
   - IR LED Die Cost
   - IR LED Packaging Cost
   - IR LED Component Cost
   - IR LED Estimated Selling Price

6. IR Camera Physical Analysis
   - Physical Analysis Methodology
   - Camera Module
   - Views & Dimensions
- Module Disassembly
- Module Cross-Section
- Image Sensor
- CIS View & Dimensions
- CIS Pixel Size & Resolution
- CIS Delayering
- CIS Technology Node
- CIS Cross-Section

7. IR Camera Module Manufacturing
- Global Overview
- CIS Front-End Process
- BSI Process Flow
- CIS Wafer Fabrication Unit

8. IR Camera Module Cost Analysis
- CMOS Image Sensor Cost
- Camera Module Assembly Cost
- IR Camera Cost
- IR Camera Estimated Selling Price

Ordering:
Order Online - [http://www.researchandmarkets.com/reports/3514090/](http://www.researchandmarkets.com/reports/3514090/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Fujitsu Iris Authentication Module - IR Camera Module & IR LED - Reverse Costing Analysis
Web Address: http://www.researchandmarkets.com/reports/3514090/
Office Code: SCH37WG3

Product Format
Please select the product format and quantity you require:

| Quantity | Electronic (PDF) - Enteprisewide: | USD 3838 |

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB89533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World