

United States Automotive Camera Module Market by Manufacturers, States, Type and Application, Forecast to 2022

<https://marketpublishers.com/r/U4EEE708C42EN.html>

Date: June 2017

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: U4EEE708C42EN

Abstracts

Automotive Camera Module is defined as a housing containing an image sensor, a processor, a lens, a buffer, and connector points; in addition, some system specific software and any other elements may be required before the camera module can be installed in a space defined by the vehicle manufacturer.

Scope of the Report:

This report focuses on the Automotive Camera Module in United States market, to split the market based on manufacturers, states, type and application.

Market Segment by Manufacturers, this report covers

LG Innotek

SEMCO

Sharp

Sunny Optical

Partron

ZF TRW

MCNEX

CAMMSYS

Powerlogic

BYD

Tung Thih

STMicroelectronics

Market Segment by States, covering

California

Texas

New York

Florida

Illinois

Market Segment by Type, covers

Back-up Camera

Black Box Camera

Others

Market Segment by Applications, can be divided into

Sedan

SUV

Other

There are 17 Chapters to deeply display the United States Automotive Camera Module market.

Chapter 1, to describe Automotive Camera Module Introduction, product type and application, market overview, market analysis by States, market opportunities, market risk, market driving force;

Chapter 2, to analyze the manufacturers of Automotive Camera Module, with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the United States market by States, covering California, New York, Texas, Illinois and Florida, with sales, price, revenue and market share of Automotive Camera Module, for each state, from 2012 to 2017;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue, market share and growth rate by type, application, from 2012 to 2017;

Chapter 7, 8, 9, 10 and 11, to analyze the key States by Type and Application, covering California, New York, Texas, Illinois and Florida, with sales, revenue and market share by types and applications;

Chapter 12, Automotive Camera Module market forecast, by States, type and application, with sales, price, revenue and growth rate forecast, from 2017 to 2022;

Chapter 13, to analyze the manufacturing cost, key raw materials and manufacturing process etc.

Chapter 14, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 15, to describe sales channel, distributors, traders, dealers etc.

Chapter 16 and 17, to describe Automotive Camera Module Research Findings and Conclusion, Appendix, methodology and data source.

Contents

1 MARKET OVERVIEW

- 1.1 Automotive Camera Module Introduction
- 1.2 Market Analysis by Type
 - 1.2.1 Back-up Camera
 - 1.2.2 Black Box Camera
 - 1.2.3 Others
- 1.3 Market Analysis by Applications
 - 1.3.1 Sedan
 - 1.3.2 SUV
 - 1.3.3 Other
- 1.4 Market Analysis by States
 - 1.4.1 California Status and Prospect (2012-2022)
 - 1.4.2 Texas Status and Prospect (2012-2022)
 - 1.4.3 New York Status and Prospect (2012-2022)
 - 1.4.4 Florida Status and Prospect (2012-2022)
 - 1.4.5 Illinois Status and Prospect (2012-2022)
- 1.5 Market Dynamics
 - 1.5.1 Market Opportunities
 - 1.5.2 Market Risk
 - 1.5.3 Market Driving Force

2 MANUFACTURERS PROFILES

- 2.1 LG Innotek
 - 2.1.1 Profile
 - 2.1.2 Automotive Camera Module Type and Applications
 - 2.1.2.1 Type
 - 2.1.2.2 Type
 - 2.1.3 LG Innotek Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.1.4 Business Overview
 - 2.1.5 LG Innotek News
- 2.2 SEMCO
 - 2.2.1 Profile
 - 2.2.2 Automotive Camera Module Type and Applications
 - 2.2.2.1 Type

- 2.2.2.2 Type
- 2.2.3 SEMCO Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2.4 Business Overview
- 2.2.5 SEMCO News
- 2.3 Sharp
 - 2.3.1 Profile
 - 2.3.2 Automotive Camera Module Type and Applications
 - 2.3.2.1 Type
 - 2.3.2.2 Type
 - 2.3.3 Sharp Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.3.4 Business Overview
 - 2.3.5 Sharp News
- 2.4 Sunny Optical
 - 2.4.1 Profile
 - 2.4.2 Automotive Camera Module Type and Applications
 - 2.4.2.1 Type
 - 2.4.2.2 Type
 - 2.4.3 Sunny Optical Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.4.4 Business Overview
 - 2.4.5 Sunny Optical News
- 2.5 Partron
 - 2.5.1 Profile
 - 2.5.2 Automotive Camera Module Type and Applications
 - 2.5.2.1 Type
 - 2.5.2.2 Type
 - 2.5.3 Partron Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.5.4 Business Overview
 - 2.5.5 Partron News
- 2.6 ZF TRW
 - 2.6.1 Profile
 - 2.6.2 Automotive Camera Module Type and Applications
 - 2.6.2.1 Type
 - 2.6.2.2 Type
 - 2.6.3 ZF TRW Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

- 2.6.4 Business Overview
- 2.6.5 ZF TRW News
- 2.7 MCNEX
 - 2.7.1 Profile
 - 2.7.2 Automotive Camera Module Type and Applications
 - 2.7.2.1 Type
 - 2.7.2.2 Type
 - 2.7.3 MCNEX Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.7.4 Business Overview
 - 2.7.5 MCNEX News
- 2.8 CAMMSYS
 - 2.8.1 Profile
 - 2.8.2 Automotive Camera Module Type and Applications
 - 2.8.2.1 Type
 - 2.8.2.2 Type
 - 2.8.3 CAMMSYS Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.8.4 Business Overview
 - 2.8.5 CAMMSYS News
- 2.9 Powerlogic
 - 2.9.1 Profile
 - 2.9.2 Automotive Camera Module Type and Applications
 - 2.9.2.1 Type
 - 2.9.2.2 Type
 - 2.9.3 Powerlogic Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.9.4 Business Overview
 - 2.9.5 Powerlogic News
- 2.10 BYD
 - 2.10.1 Profile
 - 2.10.2 Automotive Camera Module Type and Applications
 - 2.10.2.1 Type
 - 2.10.2.2 Type
 - 2.10.3 BYD Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.10.4 Business Overview
 - 2.10.5 BYD News
- 2.11 Tung Thih

- 2.11.1 Profile
- 2.11.2 Automotive Camera Module Type and Applications
 - 2.11.2.1 Type
 - 2.11.2.2 Type
- 2.11.3 Tung Thih Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.11.4 Business Overview
- 2.11.5 Tung Thih News
- 2.12 STMicroelectronics
 - 2.12.1 Profile
 - 2.12.2 Automotive Camera Module Type and Applications
 - 2.12.2.1 Type
 - 2.12.2.2 Type
 - 2.12.3 STMicroelectronics Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
 - 2.12.4 Business Overview
 - 2.12.5 STMicroelectronics News

3 UNITED STATES AUTOMOTIVE CAMERA MODULE MARKET COMPETITION, BY MANUFACTURER

- 3.1 United States Automotive Camera Module Sales and Market Share by Manufacturer (2016-2017)
- 3.2 United States Automotive Camera Module Revenue and Market Share by Manufacturer (2016-2017)
- 3.3 United States Automotive Camera Module Price by Manufacturers (2016-2017)
- 3.4 Market Concentration Rate
 - 3.4.1 Top 3 Automotive Camera Module Manufacturer Market Share
 - 3.4.2 Top 5 Automotive Camera Module Manufacturer Market Share
- 3.5 Market Competition Trend

4 UNITED STATES AUTOMOTIVE CAMERA MODULE MARKET ANALYSIS BY STATES

- 4.1 United States Automotive Camera Module Sales Market Share by States
- 4.2 United States Automotive Camera Module Sales by States (2012-2017)
- 4.3 United States Automotive Camera Module Revenue (Value) by States (2012-2017)

5 UNITED STATES MARKET SEGMENTATION AUTOMOTIVE CAMERA MODULE

BY TYPE

5.1 United States Automotive Camera Module Sales, Revenue and Market Share by Type (2012-2017)

5.1.1 United States Automotive Camera Module Sales and Market Share by Type (2012-2017)

5.1.2 United States Automotive Camera Module Revenue and Market Share by Type (2012-2017)

5.2 Back-up Camera Sales Growth and Price

5.2.1 United States Back-up Camera Sales Growth (2012-2017)

5.2.2 United States Back-up Camera Price (2012-2017)

5.3 Black Box Camera Sales Growth and Price

5.3.1 United States Black Box Camera Sales Growth (2012-2017)

5.3.2 United States Black Box Camera Price (2012-2017)

5.4 Others Sales Growth and Price

5.4.1 United States Others Sales Growth (2012-2017)

5.4.2 United States Others Price (2012-2017)

6 UNITED STATES MARKET SEGMENTATION AUTOMOTIVE CAMERA MODULE BY APPLICATION

6.1 United States Automotive Camera Module Sales Market Share by Application (2012-2017)

6.2 Sedan Sales Growth (2012-2017)

6.3 SUV Sales Growth (2012-2017)

6.4 Other Sales Growth (2012-2017)

7 CALIFORNIA AUTOMOTIVE CAMERA MODULE SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

7.1 California Automotive Camera Module Revenue, Sales and Growth Rate (2012-2017)

7.2 California Automotive Camera Module Sales and Market Share by Type

7.3 California Automotive Camera Module Sales by Application (2012-2017)

8 NEW YORK AUTOMOTIVE CAMERA MODULE SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

8.1 New York Automotive Camera Module Revenue, Sales and Growth Rate

(2012-2017)

8.2 New York Automotive Camera Module Sales and Market Share by Type

8.3 New York Automotive Camera Module Sales by Application (2012-2017)

9 TEXAS AUTOMOTIVE CAMERA MODULE SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

9.1 Texas Automotive Camera Module Revenue, Sales and Growth Rate (2012-2017)

9.2 Texas Automotive Camera Module Sales and Market Share by Type

9.3 Texas Automotive Camera Module Sales by Application (2012-2017)

10 FLORIDA AUTOMOTIVE CAMERA MODULE SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

10.1 Florida Automotive Camera Module Revenue, Sales and Growth Rate (2012-2017)

10.2 Florida Automotive Camera Module Sales and Market Share by Type

10.3 Florida Automotive Camera Module Sales by Application (2012-2017)

11 ILLINOIS AUTOMOTIVE CAMERA MODULE SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

11.1 Illinois Automotive Camera Module Revenue, Sales and Growth Rate (2012-2017)

11.2 Illinois Automotive Camera Module Sales and Market Share by Type

11.3 Illinois Automotive Camera Module Sales by Application (2012-2017)

12 AUTOMOTIVE CAMERA MODULE MARKET FORECAST (2017-2022)

12.1 United States Automotive Camera Module Sales, Revenue and Growth Rate (2017-2022)

12.2 Automotive Camera Module Market Forecast by States (2017-2022)

12.3 Automotive Camera Module Market Forecast by Type (2017-2022)

12.4 Automotive Camera Module Market Forecast by Application (2017-2022)

13 AUTOMOTIVE CAMERA MODULE MANUFACTURING COST ANALYSIS

13.1 Automotive Camera Module Key Raw Materials Analysis

13.1.1 Key Raw Materials

13.1.2 Price Trend of Key Raw Materials

13.1.3 Key Suppliers of Raw Materials

- 13.1.4 Market Concentration Rate of Raw Materials
- 13.2 Proportion of Manufacturing Cost Structure
 - 13.2.1 Raw Materials
 - 13.2.2 Labor Cost
 - 13.2.3 Manufacturing Expenses
- 13.3 Manufacturing Process Analysis of Automotive Camera Module

14 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS

- 14.1 Automotive Camera Module Industrial Chain Analysis
- 14.2 Upstream Raw Materials Sourcing
- 14.3 Raw Materials Sources of Automotive Camera Module Major Manufacturers in 2016
- 14.4 Downstream Buyers

15 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS

- 15.1 Sales Channel
 - 15.1.1 Direct Marketing
 - 15.1.2 Indirect Marketing
 - 15.1.3 Marketing Channel Future Trend
- 15.2 Distributors, Traders and Dealers

16 RESEARCH FINDINGS AND CONCLUSION

17 APPENDIX

- 17.1 Methodology
- 17.2 Analyst Introduction
- 17.3 Data Source

List Of Tables

LIST OF TABLES AND FIGURES

Figure Automotive Camera Module Picture

Table Product Specifications of Automotive Camera Module

Figure United States Sales Market Share of Automotive Camera Module by Types in 2016

Table Types of Automotive Camera Module

Figure Back-up Camera Picture

Table Major Manufacturers of Back-up Camera

Figure Black Box Camera Picture

Table Major Manufacturers of Black Box Camera

Figure Others Picture

Table Major Manufacturers of Others

Table United States Automotive Camera Module Sales Market Share by Applications in 2016

Table Applications of Automotive Camera Module

Figure Sedan Picture

Figure SUV Picture

Figure Other Picture

Figure California Automotive Camera Module Revenue (Million USD) and Growth Rate (2012-2022)

Figure Texas Automotive Camera Module Revenue (Million USD) and Growth Rate (2012-2022)

Figure New York Automotive Camera Module Revenue (Million USD) and Growth Rate (2012-2022)

Figure Florida Automotive Camera Module Revenue (Million USD) and Growth Rate (2012-2022)

Figure Illinois Automotive Camera Module Revenue (Million USD) and Growth Rate (2012-2022)

Table LG Innotek Basic Information, Manufacturing Base and Competitors

Table LG Innotek Automotive Camera Module Type and Applications

Table LG Innotek Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table SEMCO Basic Information, Manufacturing Base and Competitors

Table SEMCO Automotive Camera Module Type and Applications

Table SEMCO Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Sharp Basic Information, Manufacturing Base and Competitors

Table Sharp Automotive Camera Module Type and Applications

Table Sharp Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Sunny Optical Basic Information, Manufacturing Base and Competitors

Table Sunny Optical Automotive Camera Module Type and Applications

Table Sunny Optical Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Partron Basic Information, Manufacturing Base and Competitors

Table Partron Automotive Camera Module Type and Applications

Table Partron Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table ZF TRW Basic Information, Manufacturing Base and Competitors

Table ZF TRW Automotive Camera Module Type and Applications

Table ZF TRW Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table MCNEX Basic Information, Manufacturing Base and Competitors

Table MCNEX Automotive Camera Module Type and Applications

Table MCNEX Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table CAMMSYS Basic Information, Manufacturing Base and Competitors

Table CAMMSYS Automotive Camera Module Type and Applications

Table CAMMSYS Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Powerlogic Basic Information, Manufacturing Base and Competitors

Table Powerlogic Automotive Camera Module Type and Applications

Table Powerlogic Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table BYD Basic Information, Manufacturing Base and Competitors

Table BYD Automotive Camera Module Type and Applications

Table BYD Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Tung Thih Basic Information, Manufacturing Base and Competitors

Table Tung Thih Automotive Camera Module Type and Applications

Table Tung Thih Automotive Camera Module Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table STMicroelectronics Automotive Camera Module Type and Applications

Table STMicroelectronics Automotive Camera Module Sales, Price, Revenue, Gross

Margin and Market Share (2016-2017)

Table United States Automotive Camera Module Sales by Manufacturer (2016-2017)

Figure United States Automotive Camera Module Sales Market Share by Manufacturer in 2016

Figure United States Automotive Camera Module Sales Market Share by Manufacturer in 2017

Table United States Automotive Camera Module Revenue by Manufacturer (2016-2017)

Figure United States Automotive Camera Module Revenue Market Share by Manufacturer in 2015

Figure United States Automotive Camera Module Revenue Market Share by Manufacturer in 2016

Table United States Automotive Camera Module Price by Manufacturers (2016-2017)

Figure Top 3 Automotive Camera Module Manufacturer Market Share in 2016

Figure Top 3 Automotive Camera Module Manufacturer Market Share in 2017

Figure Top 5 Automotive Camera Module Manufacturer Market Share in 2016

Figure Top 5 Automotive Camera Module Manufacturer Market Share in 2017

Figure United States Automotive Camera Module Sales and Growth (2012-2017)

Table United States Automotive Camera Module Sales by States (2012-2017)

Table United States Automotive Camera Module Sales Market Share by States (2012-2017)

Figure United States 2012 Automotive Camera Module Sales Market Share by States

Figure United States 2016 Automotive Camera Module Sales Market Share by States

Figure United States Automotive Camera Module Revenue and Growth (2012-2017)

Table United States Automotive Camera Module Revenue by States (2012-2017)

Table United States Automotive Camera Module Revenue Market Share by States (2012-2017)

Table United States 2012 Automotive Camera Module Revenue Market Share by States

Table United States 2016 Automotive Camera Module Revenue Market Share by States

Table United States Automotive Camera Module Sales by Type (2012-2017)

Table United States Automotive Camera Module Sales Share by Type (2012-2017)

Table United States Automotive Camera Module Revenue by Type (2012-2017)

Table United States Automotive Camera Module Revenue Share by Type (2012-2017)

Figure United States Back-up Camera Sales Growth (2012-2017)

Figure United States Back-up Camera Price (2012-2017)

Figure United States Black Box Camera Sales Growth (2012-2017)

Figure United States Black Box Camera Price (2012-2017)

Figure United States Others Sales Growth (2012-2017)

Figure United States Others Price (2012-2017)

Table United States Automotive Camera Module Sales by Application (2012-2017)

Table United States Automotive Camera Module Sales Share by Application (2012-2017)

Figure United States Sedan Sales Growth (2012-2017)

Figure United States SUV Sales Growth (2012-2017)

Figure United States Other Sales Growth (2012-2017)

Figure California Automotive Camera Module Revenue and Growth (2012-2017)

Figure California Automotive Camera Module Sales and Growth (2012-2017)

Table California Automotive Camera Module Sales by Type (2012-2017)

Table California Automotive Camera Module Sales Market Share by Type (2012-2017)

Table California Automotive Camera Module Sales by Application (2012-2017)

Table California Automotive Camera Module Sales Market Share by Application (2012-2017)

Figure New York Automotive Camera Module Revenue and Growth (2012-2017)

Figure New York Automotive Camera Module Sales and Growth (2012-2017)

Table New York Automotive Camera Module Sales by Type (2012-2017)

Table New York Automotive Camera Module Sales Market Share by Type (2012-2017)

Table New York Automotive Camera Module Sales by Application (2012-2017)

Table New York Automotive Camera Module Sales Market Share by Application (2012-2017)

Figure Texas Automotive Camera Module Revenue and Growth (2012-2017)

Figure Texas Automotive Camera Module Sales and Growth (2012-2017)

Table Texas Automotive Camera Module Sales by Type (2012-2017)

Table Texas Automotive Camera Module Sales Market Share by Type (2012-2017)

Table Texas Automotive Camera Module Sales by Application (2012-2017)

Table Texas Automotive Camera Module Sales Market Share by Application (2012-2017)

Figure Florida Automotive Camera Module Revenue and Growth (2012-2017)

Figure Florida Automotive Camera Module Sales and Growth (2012-2017)

Table Florida Automotive Camera Module Sales by Type (2012-2017)

Table Florida Automotive Camera Module Sales Market Share by Type (2012-2017)

Table Florida Automotive Camera Module Sales by Application (2012-2017)

Table Florida Automotive Camera Module Sales Market Share by Application (2012-2017)

Figure Illinois Automotive Camera Module Revenue and Growth (2012-2017)

Figure Illinois Automotive Camera Module Sales and Growth (2012-2017)

Table Illinois Automotive Camera Module Sales by Type (2012-2017)

Table Illinois Automotive Camera Module Sales Market Share by Type (2012-2017)

Table Illinois Automotive Camera Module Sales by Application (2012-2017)

Table Illinois Automotive Camera Module Sales Market Share by Application

(2012-2017)

Figure United States Automotive Camera Module Sales, Revenue and Growth Rate

(2017-2022)

Table United States Automotive Camera Module Sales Forecast by States (2017-2022)

Table United States Automotive Camera Module Market Share Forecast by States

(2017-2022)

Table United States Automotive Camera Module Sales Forecast by Type (2017-2022)

Table United States Automotive Camera Module Market Share Forecast by Type

(2017-2022)

Table United States Automotive Camera Module Sales Forecast by Application

(2017-2022)

Table United States Automotive Camera Module Market Share Forecast by Application

(2017-2022)

Table Sales Base and Market Concentration Rate of Raw Material

Figure Price Trend of Key Raw Materials

Table Key Suppliers of Raw Materials

Figure Manufacturing Cost Structure of Automotive Camera Module

Figure Manufacturing Process Analysis of Automotive Camera Module

Figure Automotive Camera Module Industrial Chain Analysis

Table Raw Materials Sources of Automotive Camera Module Major Manufacturers in 2016

Table Major Buyers of Automotive Camera Module

Table Distributors/Traders/ Dealers List

I would like to order

Product name: United States Automotive Camera Module Market by Manufacturers, States, Type and Application, Forecast to 2022

Product link: <https://marketpublishers.com/r/U4EEE708C42EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/U4EEE708C42EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

