

Global 3D Laser Scanners Market Data Survey Report 2015-2025

https://marketpublishers.com/r/GEE69AB67AF1EN.html

Date: December 2019

Pages: 89

Price: US\$ 1,500.00 (Single User License)

ID: GEE69AB67AF1EN

Abstracts

SUMMARY

3D Laser Scanning is a non-contact, non-destructive technology that digitally captures the shape of physical objects using a line of laser light. 3D laser scanners create "point clouds" of data from the surface of an object. In other words, 3D laser scanning is a way to capture a physical object's exact size and shape into the computer world as a digital 3-dimensional representation.

The global 3D Laser Scanners market will reach xxx Million USD in 2020 with CAGR xx% 2020-2025. The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import Key manufacturers profile, products & services, sales data of business Global market size by Major End-Use Global market size by Major Type

Key manufacturers are included based on company profile, sales data and product specifications etc.:

Faro			
Trimble			
Topcon			

Global 3D Laser Scanners Market Data Survey Report 2015-2025

Hexagon



Nikon Metrology

Creaform (AMETEK)		
Teledyne Optech		
Z+F GmbH		
Maptek		
Kreon Technologies		
Shapegrabber		
Surphaser		
Riegl		
3D Digital		
Carl Zeiss		
Holon 3D		
Hi-target		
Vishot		
Shining 3D		
Hangzhou Scan Technology		
Major applications as follows:		

Aerospace and Defense

Medical and Healthcare



Architecture and Engineering
Oil and gas, Energy and Power
Automotive and Transportation
Manufacturing and Others
Major Type as follows:
Handheld
Tripod Mounted
Automated & CMM-based
Desktop & Stationary
Regional market size, production data and export & import:
Asia-Pacific
North America
Europe
South America
Middle East & Africa



Contents

1 GLOBAL MARKET OVERVIEW

- 1.1 Scope of Statistics
 - 1.1.1 Scope of Products
 - 1.1.2 Scope of Manufacturers
 - 1.1.3 Scope of End-Use
 - 1.1.4 Scope of Product Type
 - 1.1.5 Scope of Regions/Countries
- 1.2 Global Market Size
- Fig Global 3D Laser Scanners Market Size and CAGR 2015-2019 (Million USD)
- Fig Global 3D Laser Scanners Market Size and CAGR 2015-2019 (Volume)
- Fig Global 3D Laser Scanners Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Global 3D Laser Scanners Market Forecast and CAGR 2020-2025 (Volume)

2 REGIONAL MARKET

2.1 Regional Sales

Tab Regional Sales Revenue 2015-2019 (Million USD)

Tab Regional Sales Volume 2015-2019 (Volume)

2.2 Regional Demand

Tab Regional Demand and CAGR List 2015-2019 (Million USD)

Tab Regional Demand and CAGR List 2015-2019 (Volume)

Tab Regional Demand Forecast and CAGR 2020-2025 (Million USD)

Tab Regional Demand Forecast and CAGR 2020-2025 (Volume)

2.3 Regional Trade

Tab Regional Export 2015-2019 (Million USD)

Tab Regional Export 2015-2019 (Volume)

Tab Regional Import 2015-2019 (Million USD)

Tab Regional Import 2015-2019 (Volume)

3 KEY MANUFACTURERS

- 3.1 Faro
 - 3.1.1 Company Information

Tab Company Profile List of Faro

- 3.1.2 Product & Services
- 3.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)



Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Faro

3.1.4 Recent Development

3.2 Trimble

3.2.1 Company Information

Tab Company Profile List of Trimble

3.2.2 Product & Services

3.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Trimble

3.2.4 Recent Development

3.3 Topcon

3.3.1 Company Information

Tab Company Profile List of Topcon

3.3.2 Product & Services

3.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Topcon

3.3.4 Recent Development

3.4 Hexagon

3.4.1 Company Information

Tab Company Profile List of Hexagon

3.4.2 Product & Services

3.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hexagon

3.4.4 Recent Development

3.5 Nikon Metrology

3.5.1 Company Information

Tab Company Profile List of Nikon Metrology

3.5.2 Product & Services

3.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Nikon Metrology

3.5.4 Recent Development

3.6 Creaform (AMETEK)

3.6.1 Company Information

Tab Company Profile List of Creaform (AMETEK)

3.6.2 Product & Services

3.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Creaform (AMETEK)

3.6.4 Recent Development

3.7 Teledyne Optech

3.7.1 Company Information



Tab Company Profile List of Teledyne Optech

- 3.7.2 Product & Services
- 3.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Teledyne Optech

- 3.7.4 Recent Development
- 3.8 Z+F GmbH
 - 3.8.1 Company Information

Tab Company Profile List of Z+F GmbH

- 3.8.2 Product & Services
- 3.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Z+F GmbH

- 3.8.4 Recent Development
- 3.9 Maptek
 - 3.9.1 Company Information

Tab Company Profile List of Maptek

- 3.9.2 Product & Services
- 3.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Maptek

- 3.9.4 Recent Development
- 3.10 Kreon Technologies
 - 3.10.1 Company Information

Tab Company Profile List of Kreon Technologies

- 3.10.2 Product & Services
- 3.10.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Kreon Technologies

- 3.10.4 Recent Development
- 3.11 Shapegrabber
 - 3.11.1 Company Information

Tab Company Profile List of Shapegrabber

- 3.11.2 Product & Services
- 3.11.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Shapegrabber

- 3.11.4 Recent Development
- 3.12 Surphaser
 - 3.12.1 Company Information

Tab Company Profile List of Surphaser

- 3.12.2 Product & Services
- 3.12.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Surphaser



- 3.12.4 Recent Development
- 3.13 Riegl
 - 3.13.1 Company Information
- Tab Company Profile List of Riegl
 - 3.13.2 Product & Services
 - 3.13.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Riegl
 - 3.13.4 Recent Development
- 3.14 3D Digital
 - 3.14.1 Company Information
- Tab Company Profile List of 3D Digital
 - 3.14.2 Product & Services
 - 3.14.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- Tab Sales Revenue, Sales Volume, Price, Cost and Margin of 3D Digital
 - 3.14.4 Recent Development
- 3.15 Carl Zeiss
 - 3.15.1 Company Information
- Tab Company Profile List of Carl Zeiss
 - 3.15.2 Product & Services
 - 3.15.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Carl Zeiss
 - 3.15.4 Recent Development
- 3.16 Holon 3D
 - 3.16.1 Company Information
- Tab Company Profile List of Holon 3D
 - 3.16.2 Product & Services
 - 3.16.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Holon 3D
 - 3.16.4 Recent Development
- 3.17 Hi-target
 - 3.17.1 Company Information
- Tab Company Profile List of Hi-target
 - 3.17.2 Product & Services
 - 3.17.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hi-target
 - 3.17.4 Recent Development
- 3.18 Vishot
 - 3.18.1 Company Information
- Tab Company Profile List of Vishot



- 3.18.2 Product & Services
- 3.18.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Vishot

- 3.18.4 Recent Development
- 3.19 Shining 3D
 - 3.19.1 Company Information

Tab Company Profile List of Shining 3D

- 3.19.2 Product & Services
- 3.19.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Shining 3D

- 3.20 Hangzhou Scan Technology
 - 3.20.1 Company Information

Tab Company Profile List of Hangzhou Scan Technology

- 3.20.2 Product & Services
- 3.20.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hangzhou Scan Technology

4 MAJOR END-USE

- 4.1 Aerospace and Defense
 - 4.1.1 Overview

Tab Summary of Consumption Distribution of Aerospace and Defense

- 4.1.2 Aerospace and Defense Market Size and Forecast
- Fig Aerospace and Defense Market Size and CAGR 2015-2019 (Million USD)
- Fig Aerospace and Defense Market Size and CAGR 2015-2019 (Volume)
- Fig Aerospace and Defense Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Aerospace and Defense Market Forecast and CAGR 2020-2025 (Volume)
- 4.2 Medical and Healthcare
 - 4.2.1 Overview

Tab Summary of Consumption Distribution of Medical and Healthcare

- 4.2.2 Medical and Healthcare Market Size and Forecast
- Fig Medical and Healthcare Market Size and CAGR 2015-2019 (Million USD)
- Fig Medical and Healthcare Market Size and CAGR 2015-2019 (Volume)
- Fig Medical and Healthcare Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Medical and Healthcare Market Forecast and CAGR 2020-2025 (Volume)
- 4.3 Architecture and Engineering
 - 4.3.1 Overview

Tab Summary of Consumption Distribution of Architecture and Engineering



4.3.2 Architecture and Engineering Market Size and Forecast

Fig Architecture and Engineering Market Size and CAGR 2015-2019 (Million USD)

Fig Architecture and Engineering Market Size and CAGR 2015-2019 (Volume)

Fig Architecture and Engineering Market Forecast and CAGR 2020-2025 (Million USD)

Fig Architecture and Engineering Market Forecast and CAGR 2020-2025 (Volume)

4.4 Oil and gas, Energy and Power

4.4.1 Overview

Tab Summary of Consumption Distribution of Oil and gas, Energy and Power

4.4.2 Oil and gas, Energy and Power Market Size and Forecast

Fig Oil and gas, Energy and Power Market Size and CAGR 2015-2019 (Million USD)

Fig Oil and gas, Energy and Power Market Size and CAGR 2015-2019 (Volume)

Fig Oil and gas, Energy and Power Market Forecast and CAGR 2020-2025 (Million USD)

Fig Oil and gas, Energy and Power Market Forecast and CAGR 2020-2025 (Volume)

4.5 Automotive and Transportation

4.5.1 Overview

Tab Summary of Consumption Distribution of Automotive and Transportation

4.5.2 Automotive and Transportation Market Size and Forecast

Fig Automotive and Transportation Market Size and CAGR 2015-2019 (Million USD)

Fig Automotive and Transportation Market Size and CAGR 2015-2019 (Volume)

Fig Automotive and Transportation Market Forecast and CAGR 2020-2025 (Million USD)

Fig Automotive and Transportation Market Forecast and CAGR 2020-2025 (Volume)

4.6 Manufacturing and Others

4.6.1 Overview

Tab Summary of Consumption Distribution of Manufacturing and Others

4.6.2 Manufacturing and Others Market Size and Forecast

Fig Manufacturing and Others Market Size and CAGR 2015-2019 (Million USD)

Fig Manufacturing and Others Market Size and CAGR 2015-2019 (Volume)

Fig Manufacturing and Others Market Forecast and CAGR 2020-2025 (Million USD)

Fig Manufacturing and Others Market Forecast and CAGR 2020-2025 (Volume)

5 MARKET BY TYPE

5.1 Handheld

5.1.1 Overview

Tab Product Overview of Handheld

5.1.2 Handheld Market Size and Forecast

Fig Handheld Market Size and CAGR 2015-2019 (Million USD)



Fig Handheld Market Size and CAGR 2015-2019 (Volume)

Fig Handheld Market Forecast and CAGR 2020-2025 (Million USD)

Fig Handheld Market Forecast and CAGR 2020-2025 (Volume)

5.2 Tripod Mounted

5.2.1 Overview

Tab Product Overview of Tripod Mounted

5.2.2 Tripod Mounted Market Size and Forecast

Fig Tripod Mounted Market Size and CAGR 2015-2019 (Million USD)

Fig Tripod Mounted Market Size and CAGR 2015-2019 (Volume)

Fig Tripod Mounted Market Forecast and CAGR 2020-2025 (Million USD)

Fig Tripod Mounted Market Forecast and CAGR 2020-2025 (Volume)

5.3 Automated & CMM-based

5.3.1 Overview

Tab Product Overview of Automated & CMM-based

5.3.2 Automated & CMM-based Market Size and Forecast

Fig Automated & CMM-based Market Size and CAGR 2015-2019 (Million USD)

Fig Automated & CMM-based Market Size and CAGR 2015-2019 (Volume)

Fig Automated & CMM-based Market Forecast and CAGR 2020-2025 (Million USD)

Fig Automated & CMM-based Market Forecast and CAGR 2020-2025 (Volume)

5.4 Desktop & Stationary

5.4.1 Overview

Tab Product Overview of Desktop & Stationary

5.4.2 Desktop & Stationary Market Size and Forecast

Fig Desktop & Stationary Market Size and CAGR 2015-2019 (Million USD)

Fig Desktop & Stationary Market Size and CAGR 2015-2019 (Volume)

Fig Desktop & Stationary Market Forecast and CAGR 2020-2025 (Million USD)

Fig Desktop & Stationary Market Forecast and CAGR 2020-2025 (Volume)

6 PRICE OVERVIEW

6.1 Price by Manufacturers

Tab Different Products Prices List of Major Manufacturers

6.2 Price by End-Use

Tab Different Products Prices List of End-Use

6.3 Price by Type

Tab Different Products Prices List of Produt Type

7 CONCLUSION



List Of Tables

LIST OF TABLES

Tab Regional Sales Revenue 2015-2019 (Million USD)

Tab Regional Sales Volume 2015-2019 (Volume)

Tab Regional Demand and CAGR List 2015-2019 (Million USD)

Tab Regional Demand and CAGR List 2015-2019 (Volume)

Tab Regional Demand Forecast and CAGR 2020-2025 (Million USD)

Tab Regional Demand Forecast and CAGR 2020-2025 (Volume)

Tab Regional Export 2015-2019 (Million USD)

Tab Regional Export 2015-2019 (Volume)

Tab Regional Import 2015-2019 (Million USD)

Tab Regional Import 2015-2019 (Volume)

Tab Company Profile List of Faro

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Faro

Tab Company Profile List of Trimble

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Trimble

Tab Company Profile List of Topcon

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Topcon

Tab Company Profile List of Hexagon

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hexagon

Tab Company Profile List of Nikon Metrology

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Nikon Metrology

Tab Company Profile List of Creaform (AMETEK)

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Creaform (AMETEK)

Tab Company Profile List of Teledyne Optech

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Teledyne Optech

Tab Company Profile List of Z+F GmbH

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Z+F GmbH

Tab Company Profile List of Maptek

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Maptek

Tab Company Profile List of Kreon Technologies

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Kreon Technologies

Tab Company Profile List of Shapegrabber

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Shapegrabber

Tab Company Profile List of Surphaser

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Surphaser

Tab Company Profile List of Riegl



Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Riegl

Tab Company Profile List of 3D Digital

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of 3D Digital

Tab Company Profile List of Carl Zeiss

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Carl Zeiss

Tab Company Profile List of Holon 3D

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Holon 3D

Tab Company Profile List of Hi-target

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hi-target

Tab Company Profile List of Vishot

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Vishot

Tab Company Profile List of Shining 3D

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Shining 3D

Tab Company Profile List of Hangzhou Scan Technology

Tab Sales Revenue, Sales Volume, Price, Cost and Margin of Hangzhou Scan Technology

Tab Summary of Consumption Distribution of Aerospace and Defense

Tab Summary of Consumption Distribution of Medical and Healthcare

Tab Summary of Consumption Distribution of Architecture and Engineering

Tab Summary of Consumption Distribution of Oil and gas, Energy and Power

Tab Summary of Consumption Distribution of Automotive and Transportation

Tab Summary of Consumption Distribution of Manufacturing and Others

Tab Product Overview of Handheld

Tab Product Overview of Tripod Mounted

Tab Product Overview of Automated & CMM-based

Tab Product Overview of Desktop & Stationary

Tab Different Products Prices List of Major Manufacturers

Tab Different Products Prices List of End-Use

Tab Different Products Prices List of Produt Type



List Of Figures

LIST OF FIGURES

Fig Global 3D Laser Scanners Market Size and CAGR 2015-2019 (Million USD)

Fig Global 3D Laser Scanners Market Size and CAGR 2015-2019 (Volume)

Fig Global 3D Laser Scanners Market Forecast and CAGR 2020-2025 (Million USD)

Fig Global 3D Laser Scanners Market Forecast and CAGR 2020-2025 (Volume)

Fig Aerospace and Defense Market Size and CAGR 2015-2019 (Million USD)

Fig Aerospace and Defense Market Size and CAGR 2015-2019 (Volume)

Fig Aerospace and Defense Market Forecast and CAGR 2020-2025 (Million USD)

Fig Aerospace and Defense Market Forecast and CAGR 2020-2025 (Volume)

Fig Medical and Healthcare Market Size and CAGR 2015-2019 (Million USD)

Fig Medical and Healthcare Market Size and CAGR 2015-2019 (Volume)

Fig Medical and Healthcare Market Forecast and CAGR 2020-2025 (Million USD)

Fig Medical and Healthcare Market Forecast and CAGR 2020-2025 (Volume)

Fig Architecture and Engineering Market Size and CAGR 2015-2019 (Million USD)

Fig Architecture and Engineering Market Size and CAGR 2015-2019 (Volume)

Fig Architecture and Engineering Market Forecast and CAGR 2020-2025 (Million USD)

Fig Architecture and Engineering Market Forecast and CAGR 2020-2025 (Volume)

Fig Oil and gas, Energy and Power Market Size and CAGR 2015-2019 (Million USD)

Fig Oil and gas, Energy and Power Market Size and CAGR 2015-2019 (Volume)

Fig Oil and gas, Energy and Power Market Forecast and CAGR 2020-2025 (Million USD)

Fig Oil and gas, Energy and Power Market Forecast and CAGR 2020-2025 (Volume)

Fig Automotive and Transportation Market Size and CAGR 2015-2019 (Million USD)

Fig Automotive and Transportation Market Size and CAGR 2015-2019 (Volume)

Fig Automotive and Transportation Market Forecast and CAGR 2020-2025 (Million USD)

Fig Automotive and Transportation Market Forecast and CAGR 2020-2025 (Volume)

Fig Manufacturing and Others Market Size and CAGR 2015-2019 (Million USD)

Fig Manufacturing and Others Market Size and CAGR 2015-2019 (Volume)

Fig Manufacturing and Others Market Forecast and CAGR 2020-2025 (Million USD)

Fig Manufacturing and Others Market Forecast and CAGR 2020-2025 (Volume)

Fig Handheld Market Size and CAGR 2015-2019 (Million USD)

Fig Handheld Market Size and CAGR 2015-2019 (Volume)

Fig Handheld Market Forecast and CAGR 2020-2025 (Million USD)

Fig Handheld Market Forecast and CAGR 2020-2025 (Volume)

Fig Tripod Mounted Market Size and CAGR 2015-2019 (Million USD)



- Fig Tripod Mounted Market Size and CAGR 2015-2019 (Volume)
- Fig Tripod Mounted Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Tripod Mounted Market Forecast and CAGR 2020-2025 (Volume)
- Fig Automated & CMM-based Market Size and CAGR 2015-2019 (Million USD)
- Fig Automated & CMM-based Market Size and CAGR 2015-2019 (Volume)
- Fig Automated & CMM-based Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Automated & CMM-based Market Forecast and CAGR 2020-2025 (Volume)
- Fig Desktop & Stationary Market Size and CAGR 2015-2019 (Million USD)
- Fig Desktop & Stationary Market Size and CAGR 2015-2019 (Volume)
- Fig Desktop & Stationary Market Forecast and CAGR 2020-2025 (Million USD)
- Fig Desktop & Stationary Market Forecast and CAGR 2020-2025 (Volume)



I would like to order

Product name: Global 3D Laser Scanners Market Data Survey Report 2015-2025

Product link: https://marketpublishers.com/r/GEE69AB67AF1EN.html

Price: US\$ 1,500.00 (Single User License / Electronic Delivery)

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

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GEE69AB67AF1EN.html

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

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature
	Custumer 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