

Global 3D Imaging in Smartphone Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Imaging in Smartphone market size is expected to reach \$ 26720 million by 2032, rising at a market growth of 26.5% CAGR during the forecast period (2026-2032).

3D Imaging in Smartphone utilizes near-infrared (commonly 850/940 nm) active light sources (such as VCSEL dot/flood) in collaboration with a receiver (ToF depth sensor or infrared camera) to acquire scene depth information through methods such as structured light or time-of-flight (iToF/dToF), thereby enabling functions such as face recognition, AR measurement/mapping, background blur, spatial video, and gesture interaction.

Driven by Apple's scale-up in facial recognition, 3D Imaging in Smartphone has rapidly expanded from structured light to front- and rear-mounted iToF and dToF applications, and is evolving towards under-display solutions and lower power consumption. A comprehensive ecosystem has emerged: transmitter - light control optics - modules/lenses - receiver/CMOS - and algorithms. On the transmitter side, Lumentum, Coherent (formerly II-VI, including Finisar assets), ams OSRAM, TRUMPF Photonic Components, and Vertilite offer VCSEL/dot matrix/flood illuminator solutions for mobile phones, meeting the demands of the mainstream 940nm wavelength band, higher dot counts, and power/cost ratios. In the light control and filtering stages, VIAVI offers low-angle drift (LAS) near-infrared narrowband filters to enhance ToF/structured light immunity, Alluxa provides ultra-narrowband hard-coated filters to improve signal-to-noise ratio (SNR), and RPC Photonics uses engineered diffusers for VCSEL dot matrix/flood illuminator shaping and consistent output. These factors contribute to system efficiency, eye safety, and imaging stability. On the module and lens side, Sunny Optical and OFILM are mass-producing 3D sensing/ToF camera modules. Largan maintains its leading position in high-end mobile phone lenses, a key factor in

3D camera image quality and yield. On the receiver side and silicon chip side, STMicroelectronics' VL53 series ToF sensors are widely used in mobile phones, and Texas Instruments provides ToF imaging chipsets and reference designs, driving adoption and cost optimization for the Android ecosystem. Meanwhile, the industry chain is undergoing consolidation and upgrading: ams acquired Heptagon to strengthen its micro-optics/packaging capabilities, and Coherent integrated Finisar/II-VI assets to strengthen its VCSEL capabilities, resulting in tighter device-package-system synergy and faster product iterations. Overall, with the penetration of AR/spatial video, gesture interaction, and higher-level focus/depth of field applications, 3D imaging is evolving from a flagship product to a standard feature in the mid-to-high-end market. The technological advancements and supply guarantees of these companies across various segments are driving the continued expansion and expansion of this market in the coming years.

This report studies the global 3D Imaging in Smartphone demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Imaging in Smartphone, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 3D Imaging in Smartphone that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Imaging in Smartphone total market, 2021-2032, (USD Million)

Global 3D Imaging in Smartphone total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: 3D Imaging in Smartphone total market, key domestic companies, and share, (USD Million)

Global 3D Imaging in Smartphone revenue by player, revenue and market share 2021-2026, (USD Million)

Global 3D Imaging in Smartphone total market by Type, CAGR, 2021-2032, (USD Million)

Global 3D Imaging in Smartphone total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global 3D Imaging in Smartphone market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Viavi Solutions Inc, RPC Photonic Inc, CDA, Heptagon,

Finisar, STMicroelectronics, Lumentum, Texas Instruments, Sunny Optical, Coherent, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world 3D Imaging in Smartphone market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 3D Imaging in Smartphone Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Imaging in Smartphone Market, Segmentation by Type:

VCSEL

Camera Module

Narrow Band Filter

Lens

Infrared Receiver

CMOS

Others

Global 3D Imaging in Smartphone Market, Segmentation by Application:

Android

iPhone

Companies Profiled:

Viavi Solutions Inc

RPC Photonic Inc

CDA

Heptagon

Finisar

STMicroelectronics

Lumentum

Texas Instruments

Sunny Optical

Coherent

ams OSRAM

TRUMPF Photonic Components

Vertilite

Alluxa

OFILM

Largan

Key Questions Answered

1. How big is the global 3D Imaging in Smartphone market?
2. What is the demand of the global 3D Imaging in Smartphone market?
3. What is the year over year growth of the global 3D Imaging in Smartphone market?
4. What is the total value of the global 3D Imaging in Smartphone market?
5. Who are the Major Players in the global 3D Imaging in Smartphone market?
6. What are the growth factors driving the market demand?

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