**Part 2 - Task 1 (P4)**

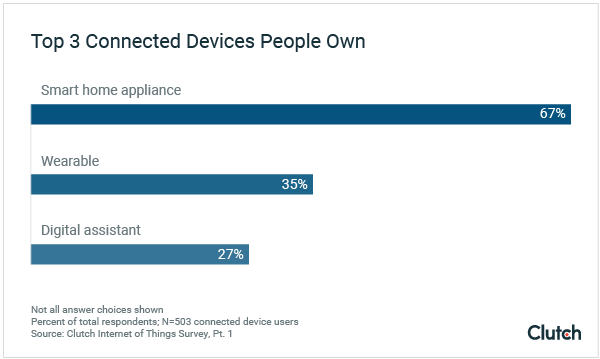
**List of resources which have been consulted and gathered the data from -**

**How the Home Security Market Uses AI to Keep You Safe**

When it comes to home security, artificial intelligence could be a game-changing technology. Artificial intelligence (AI), a term that broadly refers to technologies that mimic neural networks and “learning” behaviors, is unlocking new and exciting doors for home security companies.

**Shaw, A. (2019). *Is AI Evolving the Home Security Industry Fast Enough?*. [online] TechSpective. Available at: https://techspective.net/2018/08/13/is-ai-evolving-the-home-security-industry-fast-enough/ [Accessed 5 Feb. 2019].**

**Smart home appliances the most popular IoT solutions**

**According to the latest research on the state of the Internet of Things (IoT), adoption is rising, albeit moderately. Of the solutions that are picking up steam, smart home appliances are the most popular. In a survey by B2B research firm Clutch, 67% of IoT users own a smart home appliance such as a Nest thermostat, smart lock, or smart TV.**

**Truta, F. (2019). *bitdefender*. [online] https://www.bitdefender.com/box/blog/cars/tools-unlocking-modern-cars-easy-get/. Available at: https://www.bitdefender.com/box/blog/family/machine-learning-artificial-intelligence-now-central-smart-home-security/ [Accessed 5 Feb. 2019].**

**How Artificial Intelligence Is Revolutionizing Home Security**

If you would like to protect your home and family from the unthinkable, it's time for you to learn how artificial intelligence is changing home security. According to the U.S. Department of Justice, 3.7 million burglaries take place each year on average. You are likely looking to the latest home security technology so that you can safeguard yourself from the threat.

**Gardner, K. (2019). *How Artificial Intelligence Is Revolutionizing Home Security*. [online] Datafloq.com. Available at: https://datafloq.com/read/how-ai-is-revolutionizing-home-security/4899 [Accessed 5 Feb. 2019].**

**AI is making smart homes safer**

Smart home and AI devices aren’t just convenient — they can also make your home a safer place. And thanks to the proliferating internet of things (IoT), good security practices are becoming less of a chore.

**Bay, S. (2019). *AI is making smart homes safer*. [online] VentureBeat. Available at: https://venturebeat.com/2017/10/27/ai-is-making-smart-homes-safer/ [Accessed 5 Feb. 2019].**

**How security experts manage their own ‘smart’ homes**

Raj Samani jokingly describes himself as the least popular person in his own home. At work, he is chief scientist at IT security company McAfee, a special adviser to the European Cybercrime Centre in The Hague, and the author of several books on cyber security.

**Twentyman, J. (2019). *How security experts manage their own ‘smart’ homes | Financial Times*. [online] Ft.com. Available at: https://www.ft.com/content/7cc695dc-aba0-11e8-8253-48106866cd8a [Accessed 5 Feb. 2019].**

**From drone patrols to AI surveillance: 15 home security innovations from CES 2019**

1. Aerial home monitoring courtesy of Sunflower Labs’ drone service

2. Keyhero

3. Deep Sentinel Smart Home Surveillance System

4. BlackBerry Secure for IoT cybersecurity

5. Maximus Answer smart doorbell

**International, F. (2019). *From drone patrols to AI surveillance: 15 home security innovations from CES 2019 - IFSEC Global | Security and Fire News and Resources*. [online] IFSEC Global | Security and Fire News and Resources. Available at: https://www.ifsecglobal.com/smart-home/drone-patrols-ai-surveillance-15-home-security-innovations-ces-2019/ [Accessed 5 Feb. 2019].**

## What is a smart home security system?

A smart home security system is a set of an internet-connected security gadgets, which typically include a combination of wireless security cameras, sirens, motion detectors, door locks, and sensors that detect when a door or window has been opened.

The specific gadgets bundled together to make a security system vary between the different kits and brands, but most manufacturers offer a range of different kits, plus the option to buy additional compatible gadgets separately.

All smart home security systems are driven by a central internet-connected ‘hub’, which wirelessly connects to and communicates with a smartphone app and the other components of the system. Using the app on your smartphone or tablet, you can monitor your home by receiving alerts, viewing photos or video taken by a security camera and, in some cases, control bits of your home such as lighting, heating or appliances.

**Which?. (2019). *How To Buy The Best Smart Home Security System - Which?*. [online] Available at: https://www.which.co.uk/reviews/smart-home-security-systems/article/how-to-buy-the-best-smart-home-security-system [Accessed 13 Mar. 2019].**

# **Smart home security: 10 hacks to protect your home from hackers**

Did you hear about the FaceTime bug that allowed users to eavesdrop on one another? How about the US family convinced by their Nest Camera that a nuclear attack was imminent?

IoT devices are now a top target for brazen cyber criminals eager to take advantage of anything in order to get their hands on someone else’s personal details.

Yet despite the dramatic headlines, there’s no need to unplug altogether. Instead, there are several simple and easy hacks that you can do to add an extra layer of security to your smart home devices.

Walton, P. (2019). *Smart home security: 10 hacks to protect your home from hackers*. [online] TechRadar. Available at: https://www.techradar.com/news/smart-home-security-10-hacks-to-protect-your-home-from-hackers [Accessed 14 Mar. 2019].

# **The US Is the Undisputed Leader in Smart Homes**

When one compares the US with China these days, the balance always seems to be tipping toward Chinese dominance. But there's one area of technology in which the States are crushing it—smart homes.

Statista Digital Market Outlook (DMO) on smart homes reveals the numbers. $5.474 billion was spent on smart homes in the US alone in 2018; China, in comparison, reached just a measly $1.083 billion. But Statista notes that number is only about 1 percent of the potential market for China.

The DMO forecast for the US smart home market in 2019 is $27.240 billion; China will go to $11.6 billion. Worldwide, the 2019 market will be $71.6 billion total. It expects the market to hit $151.9 billion by the year 2023—that's a 20.7 percent annual growth rate.

UK, P., Sound, F., Griffith, E. and Griffith, E. (2019). *The US Is the Undisputed Leader in Smart Homes*. [online] PCMag UK. Available at: https://uk.pcmag.com/first-alert-onelink-safe-sound/120078/the-us-is-the-undisputed-leader-in-smart-homeshttps://uk.pcmag.com/first-alert-onelink-safe-sound/120078/the-us-is-the-undisputed-leader-in-smart-homeshttps://uk.pcmag.com/first-alert-onelink-safe-sound/120078/the-us-is-the-undisputed-leader-in-smart-homes [Accessed 14 Mar. 2019].

# **Global Smart Home Security Market, 2019-2023: Smart Alarms, Smart Camera & Monitoring System, Smart Locks & Sensors, and Smart Detectors - ResearchAndMarkets.com**

The report assesses the global smart home security market for the historical period of 2013-2017 and the forecast period of 2018-2023. According to the report, the market is projected to display a robust growth represented by a CAGR of 15.56% during 2018-2023.

Smart Cameras and Monitoring system market segment is expected to witness growth at a noteworthy rate in the forecast period on account of increasing adoption of Smart Home Security due to growing criminal activities especially property crime coupled with increasing safety and security concerns among consumers, availability of DIY home security solutions with ease of installation and usage etc. is anticipated to propel thrust in the sales of Smart Home Security in the future.

During 2018-2023, Smart Home Security Market is anticipated to grow at an increased rate due to the evolving consumer safety and security preferences, up surge in the penetration of connected homes, growing high net worth population increasing consolidation of market players across the globe.

Amongst the regions, North America accounts for the largest regional share in the global Smart Home Security market in 2018. Key factors driving the robust growth rate of North America region include emergence of Internet of things globally backed with escalating discretionary spending of consumers in recent years and growing tech savvy population especially millennials are a significant factor backing the market of Smart Home Security in the region.

The report has covered and analysed the potential of Global Smart Home Security market and provides statistics and information on market size, shares and growth factors. The report intends to provide cutting-edge market intelligence and help decision makers take sound investment evaluation.

Besides, the report also identifies and analyses the emerging trends along with major drivers, challenges, opportunities and competitive analysis in the global Smart Home Security market. Additionally, the report also highlights market entry strategies for various companies across the globe.

**Scope of the Report**

Global Smart Home Security Market (Actual Period: 2013-2017, Forecast Period: 2018-2023)

* Smart Home Security Market, By Value
* By Product Type - Smart Alarms, Smart Camera and Monitoring System, Smart Locks and Sensors, Smart Detectors

Regional Markets - North America, Europe, Asia-Pacific and Rest of the World (Actual Period: 2013-2017, Forecast Period: 2018-2023)

* Smart Home Security Market, By Value
* By Product Type - Smart Alarms, Smart Camera and Monitoring System, Smart Locks and Sensors, Smart Detectors

Country Analysis - U.S., Canada, United Kingdom, Germany, Spain, France, India, China, Japan and South Korea (Actual Period: 2013-2017, Forecast Period: 2018-2023)

* Smart Home Security Market, By Value
* By Product Type - Smart Alarms, Smart Camera and Monitoring System, Smart Locks and Sensors, Smart Detectors

WIRE, B. (2019). *Global Smart Home Security Market, 2019-2023: Smart Alarms, Smart Camera & Monitoring System, Smart Locks & Sensors, and Smart Detectors - ResearchAndMarkets.com*. [online] Businesswire.com. Available at: https://www.businesswire.com/news/home/20190312005795/en/Global-Smart-Home-Security-Market-2019-2023-Smart [Accessed 14 Mar. 2019].