

4K Display Resolution Market by Product Types (Digital Camera, Monitor, Projectors, Smart TV, Smartphone and Tablets), by Resolution, by Application (Aerospace & Defense, Business & Education, Consumer Electronics, and Entertainment), and by Geography - Analysis & Forecast to 2014 - 2020

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Abstracts

4K represents a way by which the resolution can be measured. 4K resolution provides more pixel density which makes the image clearer, crisper, and better. This resolution provides the horizontal resolution close to 4,000 pixels and vertical resolution close to 2000 pixels. There are many standards of 4K resolution which are used for television system broadcasting and for cinemas. This resolution presents implausible and great images. This standard is being used in a number of applications such as business, consumer electronics, aerospace & defense, entertainment, and retail. The Digital Cinema Initiatives (D.C.I.) group has setup standards for 4K digital cinema. DCI which was formed in March 2002 is a combined venture of Sony Picture Entertainment (Japan), The Walt Disney Company (U.S.), Paramount Pictures (U.S.), and Warner Bros Entertainment Inc. (U.S.). Many established companies such as Sony Corporation (Japan), Samsung Electronics Co., Ltd. (South Korea), and LG Electronics (South Korea) are coming up with 4K products.

Currently, North America is the region which has captured the 4K market and according to the forecast, the next emerging region which will move their position upwards up to 2020 will be APAC. Japan and Korea are primarily in broadcasting system industry. China and Brazil will also show growth and boost in profits. Currently, 4096x2160 resolutions is being employed in smart phones and computer devices having touch



screen displays. So, it is expected that it will bring a widely used platform for 4K. Lot of companies are including 4096x2160 resolution in their devices like cameras, camcorders, TVs, smartphones, and broadcasting systems. The various formats of are H.284, H.286, VP9, and H.28.

The main driver of 4K growth is the consumer interest towards big screen TVs with excellent image quality and resolution. This resolution provides around four times resolution than that of High Definition (HD) which results in more meticulous videos, grand precise pictures, and clarity. People want home theatre-like experience with high quality pictures. 4K products are becoming less expensive so people are interested in buying them. The restraints are mainly the large bandwidth, mismatched resolution and signal reliability issues. 4K files are larger than High Definition (HD) so it requires more memory to store such files.

Digital Cinema Industry is employing 4K cameras to improve the video quality and to give better experience to the viewers.



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