

## The hottest gadgets of CES: 3-D printers to 4K TVs

January 13 2014, by Peter Svensson

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Juergen Boyny, of Germany, watches a video clip with a personal viewing device at the Sony booth at the International Consumer Electronics Show(CES) on Thursday, Jan. 9, 2014, in Las Vegas. (AP Photo/Jae C. Hong)

The biggest gadget trade show in the Americas wrapped up on Friday in Las Vegas after swamping the city with 150,000 attendees. This year, "wearable" computing was big, along with various 3-D technologies, especially 3-D printing.

Wearable devices in the shape of smartwatches and head-mounted displays have been a staple of the show for a long time, but manufacturers were excited this year because the field is finally gaining traction with consumers. Fitness bands were a breakout hit last year. The 3-D printing section bustled with activity, and it was clear that even though most people won't be buying a printer any time soon, they may be enjoying 3-D printed products, such as jewelry, wedding cakes and dental braces, in the near future. Meanwhile, TV makers were heartened by the support they received for their new ultra-high-definition TV sets.

Here are some of the most notable products and services revealed at the show:

**DRIVERLESS CARS**—The state of the art in [car electronics](#) is in systems that eliminate or ease the task of driving. French company Induct demonstrated its Navia driverless shuttle, which putts along at 12.5 miles (20 kilometers) per hour on a pre-programmed route. It's intended for university campuses, airports and other locales with enclosed roads.

What about road safety? When a staffer walked slowly in front of the Navia, the vehicle slowed down, rather than coming to a full stop, because it recognized that the pedestrian ahead was moving, too.



This photo provided by Anki shows the toy race-car company's new iPhone-controlled car game. At the International CES gadget show in Las Vegas, Anki gave onlookers hands-on time with its high-tech game, Anki Drive, where several players control different toy cars on a plastic track that can roll up and go anywhere (AP Photo/Anki)

Then there was Audi's automated parking demonstration. With a press of a button on a smartphone app, the German automaker's computer-equipped car squeezed into a tight space between two other cars, a situation that would give many drivers pause. The car has multiple cameras and ultrasonic sensors, giving it a 360-degree view. It puts rubber-necking and looking through the side-view mirror to shame. The car executed a three-point turn flawlessly —and the driver didn't have to worry about dinging other cars' doors, because he had already exited the car.

UV-SENSING WRISTBAND—The [wearable computing](#) trend has unleashed a lot of creativity. One example is a wristband with a "gemstone" that measures exposure to ultraviolet light, the kind that causes tanning and skin cancers. Using Bluetooth wireless technology, the Netatmo June sends readings to the owners' smartphones, warning, for instance, when they're approaching their daily limit of UV exposure. The battery lasts for six weeks. Netatmo, a French company, hopes to sell the device in the U.S. for \$99, starting in the second quarter of this year.



The FLIR ONE thermal imager for the iPhone is demonstrated at the International Consumer Electronics Show, Thursday, Jan. 9, 2014, in Las Vegas. The imager attaches to the back of an iPhone 5 or 5s and translates heat data into color images on the phone's screen. (AP Photo/Julie Jacobson)

**ULTRA-HIGH-DEF NETFLIX**—Netflix demonstrated ultra-high-definition, or 4K, video streaming. The company will offer relatively easy access to shows that take full advantage of the 4K TVs set to go on sale later this year. (The 4K TVs on the market today don't have the chips necessary to decode the picture.) Netflix's 4K content will stream at 15.6 megabits per second, so viewers will need a relatively fast Internet connection.

**ENVELOPING PHOTO BOOTH**—At the Nikon exhibit, Los Angeles-based photographer Alexx Henry set up a small tent with 68 inward-

facing, off-the-shelf Nikon cameras. When a subject steps inside the xxArray photo booth, an operator triggers the cameras simultaneously, yielding an image of the subject from all angles. Computers then process the images and create a 3-D rendition of the subject, which can then be posed in the computer as if it were an action figure. The 3-D model can also be imported into a game. So instead of playing with a generic game avatar, you may someday see yourself running around, blasting bad guys.

Industry-watchers expect setups like the xxArray to become more common and coupled to 3-D printers. In a few years, when you go to a photo studio, you might come home with a statue of yourself.



A show attendee looks at the Ultra HD 4K displays at the Toshiba booth at the International Consumer Electronics Show on Thursday, Jan. 9, 2014, in Las Vegas. (AP Photo/Jae C. Hong)



**SUGAR PRINTER**—A company called 3D Systems showed off the ChefJet, the first restaurant-approved food printer. The device uses water to melt sugar into shapes as complicated as the mind can imagine. The company's booth featured a wedding cake held up by an edible lattice-work tower that would have been nearly impossible to create by other means. The ChefJet can print complex works in chocolate, too. Unfortunately, the samples the company handed out didn't taste very good, but party planners and restaurateurs will likely be excited about the possibilities culinary 3-D printing opens up.

**SONY'S HEAD-MOUNTED DISPLAY**—Sony's head-mounted display looks like an enormous pair of glasses. When you strap it on, you take on the perspective of a motorcycle driver racing through the English countryside. Looking down shows the pavement speeding by, looking up shows the clouds. When you swivel your head to the right or left, you may feel like waving to the crowds along the road. All this is enabled by a sensor attached to a strap that tracks your head movements and adjusts the wide-angle picture accordingly.



Trade show attendees examine centerpiece confections made with a ChefJet Pro 3D food printer on display at the International Consumer Electronics Show, Thursday, Jan. 9, 2014, in Las Vegas. The candies are made with sugar, food coloring and a single flavor. (AP Photo/Julie Jacobson)

Although there were a few kinks that marred the illusion, the demonstration gave a taste of what's possible when "wearable" displays and computers combine with movement sensors.

**HEAT SENSING IPHONE**—FLIR Systems Inc., the leading maker of professional imagers that "see" heat, is bringing out its first consumer-level product: a jacket for the iPhone that contains a heat camera. Temperature differences show up in different colors on the screen of the phone. For instance, you can set it to show hotter things in yellow, medium-hot in red and cold in purple. It can discern temperature differences as small as one tenth of a degree. The FLIR One will cost \$349, which compares with \$995 and up for FLIR's professional thermal imagers. Practical applications for the camera include identifying leaky insulation and moisture. Fun applications include spotting wildlife, high-tech hide-and-seek, and crazy party pictures. ("Everyone was so hot!")



Audi's autonomous car drives on stage during the Audi keynote at the International Consumer Electronics Show, Monday, Jan. 6, 2014, in Las Vegas. (AP Photo/Jack Dempsey)

**ANKI DRIVE RACING GAME**— In this very high-tech update to Scalextric slot racers, your iPhone doubles as a controller for cars that zip around on a track painted with an infrared pattern the cars see with small cameras on their undersides.

Somehow, the cars fly around without rails, unless you do something really crazy. You can shoot imaginary weapons with rapid-fire tapping on your screen, disabling cars in front of you so you can race ahead. For kids, the game is a mind-blower that could inspire them to create their own gadgets, the way Erector Sets once did.

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Citation: The hottest gadgets of CES: 3-D printers to 4K TVs (2014, January 13) retrieved 26 June 2024 from <https://phys.org/news/2014-01-hottest-gadgets-ces-d-printers.html>

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