

NEW TECHNOLOGIES SIG

TOM SHEPHERD



NEW TECH SIG UPDATE

Topic for April Meeting

LINUX

THURSDAY APRIL 15 - 3:30PM

NEW TECH SIG

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NEW TECHNOLOGIES SIG

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3RD THURSDAY 3:30

A forum for the open discussion of technologically advanced ideas and
experiences

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Today's Topic

**HIGHLIGHTS FROM THE 2021
CONSUMER ELECTRONICS SHOW**

**GADGETS AND GLIMPSES INTO
THE FUTURE**

AGENDA

Computer Chips

Phones

Drones

TVs

Appliances

Bathroom

Laptops and AMD: The 'Cezanne' Ryzen 5000 Line Looks Like a Disrupter

Plenty of laptop shoppers will want to consider AMD chips, as well, which in some cases may prove to be more capable than their Intel competitors.

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The new Ryzen 5000 series runs at speeds of up to 4.8GHz, faster than last year's 4.2GHz top speed. The chips are up to 16% faster than AMD's prior laptop offerings, the company noted. [AMD](#) said 150 new laptops with the new chips would hit the market in 2021, including models arriving in February from Asus, HP, and Lenovo.

Plenty of laptop shoppers will want to consider AMD chips, as well, which in some cases may prove to be more capable than their Intel competitors.

That looks to be the case with many of the AMD Ryzen 5000-series laptop processors that [AMD unveiled](#) at CES, which feature some gaudy core and thread counts, as well as what looks like improved power efficiency.

Most of these use AMD's Zen 3 architecture, the same underpinnings that brought the company's Ryzen desktop processors to the front of the line with [the most recent generation](#) late in 2020.

Favorable comments for AMD

New versions of the company's H-series for powerful laptops, code-named Tiger Lake, can pair with mobile graphics chips from Nvidia. The chips are also compatible with the very latest Wi-Fi standard known as Wi-Fi 6E that uses new airwave bands just made available by federal regulators. Intel showed a laptop with one of its new chips slightly outperforming AMD's latest laptop gaming chip while running Deep Silver's *Metro Exodus* game.

Updates re Intel

In a presentation that included an appearance by Chance the Rapper, Intel also unveiled chips aimed at low-cost Chromebooks and other devices for schools. The segment has boomed under COVID, as kids forced to study from home needed laptops. Intel said sales of PCs to schools jumped 37% last year. The company said the latest versions of its low-cost Pentium Silver and Celeron processors offer clearer video for [Zoom](#) conferences and include the recent upgrades to Wi-Fi, known as Wi-Fi 6, for faster connectivity.

More Intel news

Phones of CES 2021: Rollable phones, the Galaxy S21 lineup and more

The biggest non-Samsung announcement at CES 2021 was arguably LG's Rollable phone, followed closely by TCL's own foray into the nascent rollable category.


Karisa Langlo Feb. 10, 2021 11:00 p.m. PT




The LG Rollable phone with expandable display is real, and coming in 2021

The video that LG teased at its CES press conference of a phone with an expanding display isn't just a concept. We'll be able to buy it this year.



Roger Cheng  Jan. 12, 2021 7:44 a.m. PT



 **LISTEN** - 02:06



(Image credit: LG)

The screen rolls up/down like a garage door



Top Dude at LG Describing Rollable Phone



Here's another companie's version of rollable phone



And another

Samsung went beyond epic with the Galaxy S21 Ultra, and it shows

Samsung has announced the Galaxy S21 series at Unpacked, surprisingly at CES 2021. And the Galaxy S21 Ultra is worthy of getting our Best Of CES 2021 award this year, because it checks all of the boxes. It sports the highest-end specs, as well as a new and improved camera, and a bold new design.

Many believe that the Galaxy S21 Ultra is already a contender for smartphone of the year, and we are barely two weeks into the new year. Now that's saying something.

Samsung's new bold style on full display

Samsung extended it's S21 line of smartphones

The first smartphone in the US with the Snapdragon 888 5G

The Galaxy S21 Ultra (and the entire S21 series) is the first smartphone to release in the US, with the Snapdragon 888 5G chipset. That is the latest and greatest silicon from Qualcomm. It's a 5nm chipset, which is a first for Galaxy. That is going to provide better performance, while also offering up better power consumption. So that 5000mAh capacity battery can last even longer.

Sony Airpeak

Sony unveiled its previously hinted drone at CES 2021 with a sleek launch video. The only info we know on the drone is from this video for now. **The Airpeak drone** uses a dual battery system, has four motors, and uses a Gremsy gimbal to hold Sony's A7 series of cameras. The drone also has an obstacle avoidance system and an FPV camera for the pilot.

We can also see a custom-built controller in the video that allows two operators for improved footage. Other than that, Sony hasn't shared much info on the drone. It is currently looking for partners in the US and Japan to work with it on its next Airpeak project. The drone looks to compete with the Inspire series from DJI, so don't expect to purchase this if you are looking for a bit of flying fun.

Sony's new Airpeak drone is intended for professional photography and video creation



(Image credit: Sony)

The Airpeak features Sony's Alpha cameras



Here's a short video of the Airpeak

Cadillac VTOL passenger drone

The **VTOL drone** doesn't currently have a name but will be the first time Cadillac and GM explore the passenger drone market. The example used in the presentation is that you've been working at the office and need to make your way to a meeting quickly.

In GM's vision, there is a Vertiport on the roof of your office building where a drone is waiting for you. You hop inside the drone, and it takes you to the Vertiport closest to the meeting location. From there, an autonomous vehicle meets you at the landing pad and takes you to the meeting.



A Teaser of a video with few details

2021 will be the year of the huge TV (just like 2020 was)

"TVs keep getting bigger," says Baker. "The most remarkable trends this year are how quickly consumers saw value in bigger screens and how much they recognized the value in newer, more modern technology to support their entertainment needs." These two trends go hand in hand: As people replace aging TVs they often get newer ones that are bigger.

Here's how much sales of larger TVs have grown in the last couple of years.

SALES GROWTH BY SCREEN SIZE

	2020	2019
65-inch TVs	27%	39%
70-inch and larger TVs	82%	58%

Comments from c/net re TV trends

At CES 2021 four major TV makers announced models claiming to put out more light than ever. Raw brightness, which I measure in nits and compare in every review, is one of the most important ingredients to a good picture. It's what makes HDR video, from TV shows to movies to video games, outshine standard dynamic range video. It helps TVs look good in bright rooms. And more than any single aspect of image quality, it's what separates cheap TVs from high-end models.

Comments from c/net re TVs announced at CES 2021

That LG CX OLED was superb but I'm betting that the brighter LG G1, which uses a new Evo panel, looks appreciably better. Sony will also sell a brighter OLED TV in 2021 as part of its Master Series. Neither TV is likely to sacrifice the superb black levels, contrast, viewing angles and color that have allowed OLED TVs to trounce LCD-based models in my reviews for years.

More comments from c/net

New LCD TVs promise increased brightness too. In my measurements, current versions were two or three times as bright as OLED-based TVs, and new LCD-based sets like the Samsung Neo QLED, LG's unfortunately named QNED and TCL's best models use Mini-LED backlights. In my tests Mini-LEDs deliver improved brightness while still maintaining black levels and precision with full-array local dimming (sound familiar)?

And even more comments from c/net

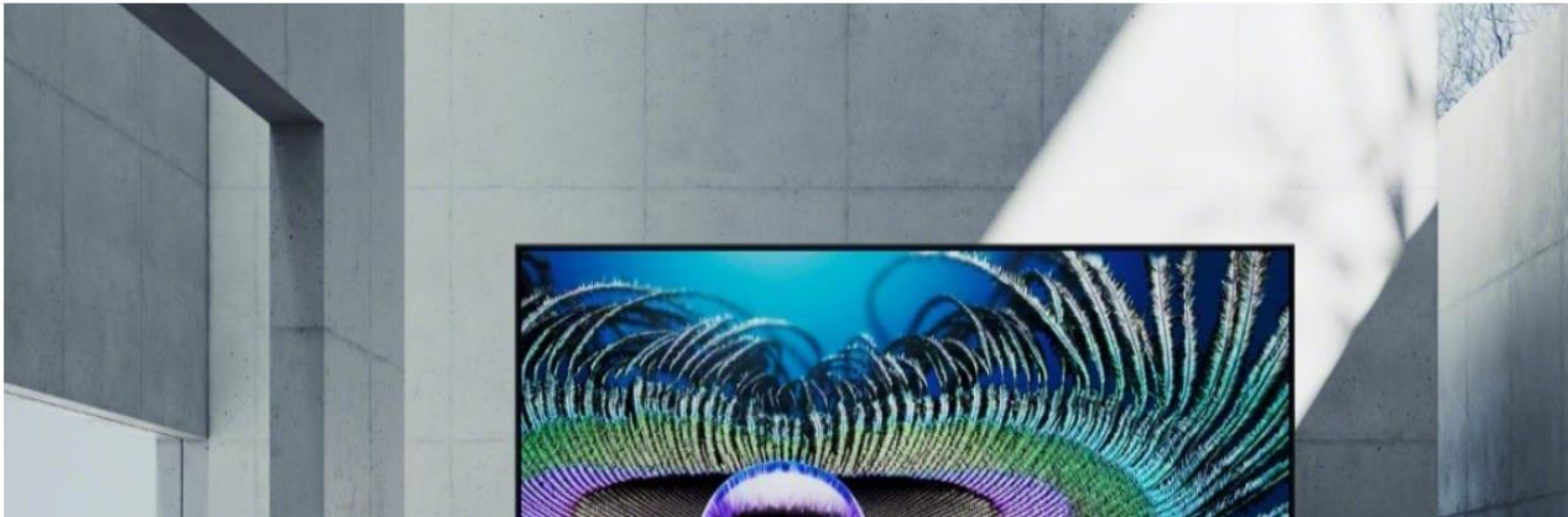
CES 2021: Affordable 8K TVs Are Coming, But You Shouldn't Buy One

8K TVs were introduced in abundance at this year's virtual CES, including models from traditionally budget-friendly manufacturer TCL, but that doesn't mean you should ditch your 4K TV just yet.



By [Will Greenwald](#)

January 14, 2021



BEST TV › LG G1 SERIES OLED

- ▶ **Price:** N/A
- ▶ **Availability:** Spring 2021

LG's incredibly elegant G1 Series 4K TVs are brighter than other OLED TVs, thanks to a display panel with an additional layer, and more emissive material used in its making. By having a higher maximum brightness, it can display even more vibrant colors than its already captivating predecessors.



Ranked by BestProducts.com

When LG announced its new Gallery design last year, we were impressed with the slim, wall-hugging TVs.

But the 2021 [LG Gallery G1 OLED TV](#) is set to outdo its predecessor thanks to LG OLED Evo, an enhanced OLED panel that produces more light per pixel, resulting in better brightness in color.

That boosted brightness should fix one of the only real problems with OLED — darker picture in the absence of a backlight — and make the best looking TVs on the market that much better.

Ranked by Tom's Guide

LG's OLED TVs aren't the only ones getting a big improvement; LG's LCD-based TVs are getting a boost thanks to a combination of mini-LED backlight for improved brightness and contrast, and a hybrid display panel that benefits from both quantum dot and Nanocell technology.

These dual nano-scale enhancements offer boosted brightness, thanks to quantum-dot's emissive qualities, and truer color, using Nanocell filtering.

More from Tom's Guide

Samsung Neo QLED



(Image credit: Samsung)

Samsung is jumping on the mini-LED bandwagon as well, pairing the micron-scale LED backlights with the latest refinements in QLED to create [Samsung Neo QLED](#), the new version of QLED coming to the 2021 8K QN900A and 4K QN90A


Even more from Tom's Guide

CNET editors pick the products and services we write about. When you buy through our links, we may get a commission.

Samsung Neo QLED TVs available for preorder starting at \$1,600

The company's 2021 4K and 8K TVs feature Mini-LED as well as new gaming, fitness and sustainability features including a solar-powered remote.



David Katzmaier  Feb. 8, 2021 11:17 a.m. PT



 **LISTEN** - 06:17

 CES 2021 INNOVATION AWARD PRODUCT

LG InstaView® ThinQ® Refrigerator with Voice Recognition

By LG Electronics Inc.



Best of Innovation

Home Appliances

On to appliances
You can open this frig with a voice command



You can see what's inside without opening the door

Another major highlight of the [CES 2021](#) event by Samsung was the [launch](#) of the JetBot 90 AI+ home cleaning bot.

The vacuum cleaner includes LiDAR and 3D sensors along with object recognition technology to identify and classify objects.

It also comes with a camera and is integrated with the SmartThings app to enable home monitoring.

Samsung JetBot 90

A.I.+

By Samsung Electronics America



JetBot



Honoree

Home Appliances

The Samsung JetBot 90 A.I.+ gives your floors an amazing clean—for minimal effort. Its cutting-edge object recognition technology enables it to navigate your home just like you do: avoiding furniture, dog droppings, and cables without missing any cleanable space. With a self-emptying Clean Station™ and a camera you can monitor from anywhere, the JetBot 90 A.I.+ is convenient in multiple ways. Its simple, sleek design has about the cleanest look you can imagine—



This Bot Handy is really cool

Who let the dogs out at CES 2021? The MyQ Pet Portal smart doggie door did

Let the dog in. Let the dog out. Let the cat in. Let the cat out. Your tedious pet routines are over thanks to MyQ's new \$3,000 pet door.



Molly Price  Jan. 13, 2021 2:06 p.m. PT



LISTEN - 01:49

If you've been around the smart home space in recent years, you're probably familiar with MyQ and its smart garage products. The folks at MyQ brought a new smart door to CES 2021. The MyQ Pet Door is aimed at pet owners who want to automate their daily routines.

You can control the MyQ Pet Door remotely, and it includes live video streaming and two-way audio through the MyQ Pet Portal app. A special custom collar system can trigger the door too, if you want to hand over control to your dog or cat while you're at work.

That's all very cutting-edge, but this door needs to be professionally installed and it starts at \$2,999 (about £2,200 or AU\$3,850). Then again, that comes out to roughly \$8 a day for one year, admittedly less than you'd pay a dog walker for a daily outing with your pooch.

Designed to replace an existing exterior door, the MyQ Pet Portal comes integrated in a select offering of Kolbe doors with multiple material and color options. In the bottom half of the standard door, you'll find the pet door, a panel that uses a smart, elevator-style mechanism to open and close.





Kohler certainly grabbed some attention with its \$16,000 Stillness Bath, which aims to recreate the experience of a traditional Japanese soaking tub. In addition to an aromatherapy and fog tower, the bath can automatically fill based on your instruction, to your preferred depth and temperature.



INSIDER



Toto

The Toto Wellness Toilet

It can analyze what's in and on the toilet — the skin in contact with the seat and the waste that's in the bowl — to get a sense of how your health is faring.

The WELLNESS TOILET uses multiple cutting-edge sensing technologies to support consumers' wellness by tracking and analyzing their mental and physical status. Each time the individual sits on the WELLNESS TOILET, it scans their body and its key outputs, then provides recommendations to improve their wellness. There is no additional action needed, so people can easily check their wellness throughout their daily routine, every time they take a bathroom break. They will see their current wellness status and receive wellness-improvement recommendations on a dashboard in an app on their smartphones.

What is more than one person uses the Wellness Toilet ?

No Problem

It has an anus recognition feature to identify each person

QUESTIONS ?