Welcome to the 2020 #HPATechRetreat both the 25th Tech Retreat & the 25th anniversary

which, thanks to everyone, is

Sold Out, Again!

these slides are already at bit.ly/hpa2020-intro



- Week of February 22 through 25, 2021
- Here: Westin Mission Hills, Rancho Mirage, CA
- Submit proposals as soon as you'd like; deadline is October 30, 2020:
 - TVMark@EarthLink.Net or Media.Mark.Schubin@GMail.Com
 - if you don't hear from me, I probably haven't received your proposal



The Basics





The schedule <u>rules</u>

download the app or check online; there might have been changes

Power available in all table rows, Wi-Fi in room

SSID: Westin_CONFERENCE Code: TECH2020

Innovation Zone open to 8:30 pm today, tomorrow 8:30 am to 2 pm

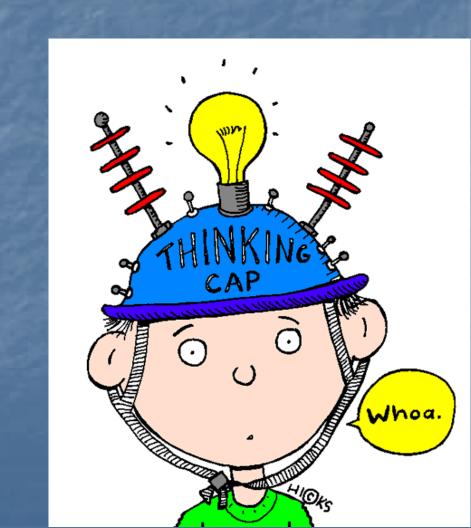
- Breakfast roundtables in Oasis Ballroom
 - topic lists will be physically posted
 - breakfast roundtables are Liberty Hall; if you don't like one, move
 - slots still available; if you'd like to moderate one, please let me know
- 25th-Retreat After Party: Pinz & Pints 9 pm to 1 am tonight

for the app (also at HPA Tech Retreat registration)

The Basics – Part II

Quizzes:

- all are eligible (except me); <u>any</u> research is ok; cheating is <u>not</u> possible (so go ahead & try)
 - answers *can* be found online (if you know where to look)
- place entries in bowl by session end (quiz #4 by last refreshment break)
- have name and quiz # on entry
- no penalty for wrong answers
- win at least a sticker or pin!



2020 Active Quizzes

- Quiz 0: Why did the player taken off the HPA Tech Retreat softball field in an ambulance check himself out of the hospital very early the next morning?
- Quiz 1: 1st Tech Retreat was 1995; why is 2020 25th?
- Quiz 4: On January 3, 2003, HPA Exec. Dir. Eileen Kramer called Mark Schubin to say, "Don't worry, but...." What was he not supposed to worry about?







The Basics – Part III

- Speakers: Send presentations or give to Max for posting (optional)
- No recording please (except for personal use)
- Be nice!
 - computer sounds muted
 - communications devices on vibrate or silent
 - _ ALL calls and conversations outside the room
- WiFi: Again, SSID: Westin_CONFERENCE Code: TECH2020
- Please fill out evaluations
 - app or https://hpaonline.com/form/2020-tech-retreat-survey/





HPA TECH RETREAT

HPA AWARDS

PROGRAMS

EVENTS

MEMBERSHIP

NEWS & PRESS

ABOUT

HPA Tech Retro







- HPA Tech Retreat 2020
- Women In Post HPA Tech Retreat Lunch
- NET March Lunch

Past Events

Program Presentations

Event Photo Galleries

password: techretreat25

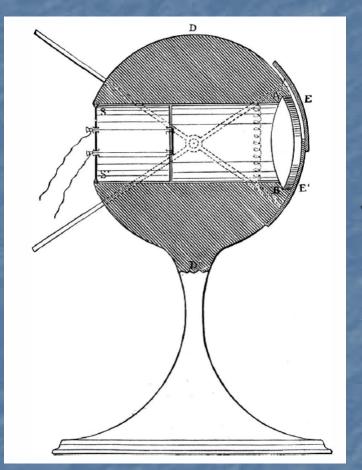
A Tech Retreat
ary 17-20, 2020

out!

There will not be any onsite registra available. Please email events@hpa

https://hpaonline.com/events/program-presentations/2020-program-presentations/

The Technology Year in Review: Wasn't the Future Wonderful?



"Here we have then an artificial eye which is sensible to light"
Dr. C. William Siemens

Proceedings of the Royal
Institution February 18, 1876

144th year of the future of motion imaging





Black Mirror: Bandersnatch

2018 TV-MA 1h 30m Dramas

In 1984, a young programmer begins to question reality as he adapts a dark fantasy novel into a video game. A mind-bending tale with multiple endings.

Starring: Fionn Whitehead, Will Poulter, Craig Parkinson









US 2019 digital media entertainment spending top \$25BN

Joseph O'Halloran | 15 January 2020

Led by subscription streaming, and an annual rise total of 18% on digital formats, digital media entertainment spending in the US leapt 8.4% in 2019 to a record \$25.2 billion according to data from the Digital Entertainment Group (DEG).



Rush to cord-cutting, online video exaggerated claims VAB study

Joseph O'Halloran | 08 October 2019

The principal myth debunked is that everyone is cutting the cord and moving away from cable for other video substitutes and subscription, yet VAB says that the reality is the vast majority of US households today have a multichannel video programming distributor (MVPD) subscription (82 million) and it's is still by far the leading video distribution access point for consumers, followed by over-the-air (OTA) -only delivery (18.4 million); over the top (OTT) -only (16.4 million); and virtual MVPD delivery (9.3 million). VAB noted that in 2020, projections estimate there will be four times more households with MVPD subscriptions (78.8 million) than OTT-only households (18.3 million) and seven times more than virtual MVPD households (10.8 million).









Hollywood

FEBRUARY 03, 2020

10:41am PT by Rick Porter

TV Ratings: Super Bowl LIV Draws 100M Viewers, Up Slightly vs. 2019













FEBRUARY 03, 2020

10:41am PT by Rick Porter

TV Ratings: Super Bowl LIV Draws 100M Viewers, Up

Super Bowl LIV drew an average of 99.9 million viewers and a 41.6 household ratings, both slight upticks from CBS' broadcast of Super Bowl LIII in 2019 (98.2 million, 41.1). Per Fox Sports, a Spanish-language simulcast on Fox Deportes and streaming on Fox, NFL and Verizon platforms boosted the average viewership to 102 million, a very small increase on last year's multiplatform audience of 101.7 million.













CMO TODAY

The Super Bowl Is Still TV's Ballgame, With Streaming Far Behind

Fox's streaming-only ads for the Super Bowl were priced between \$300,000 and \$400,000 for 30 seconds of ad time

TV beat streaming?













The Super Bowl Is Still TV's Ballgame, With Streaming Far Behind

Fox's streaming-only ads for the Super Bowl were priced between \$300,000 and \$400,000 for 30 seconds of ad time

100M viewers - \$5.6M/30 seconds = 5.6 cents/viewer

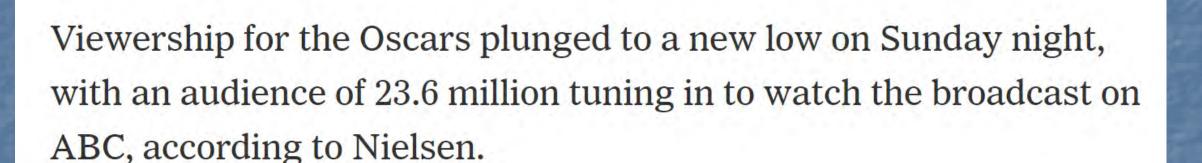
2M(?) viewers - \$400k/30 seconds = 20 cents/viewer

2020 Oscars Broadcast Hits a New Ratings Low



By John Koblin

Feb. 10, 2020

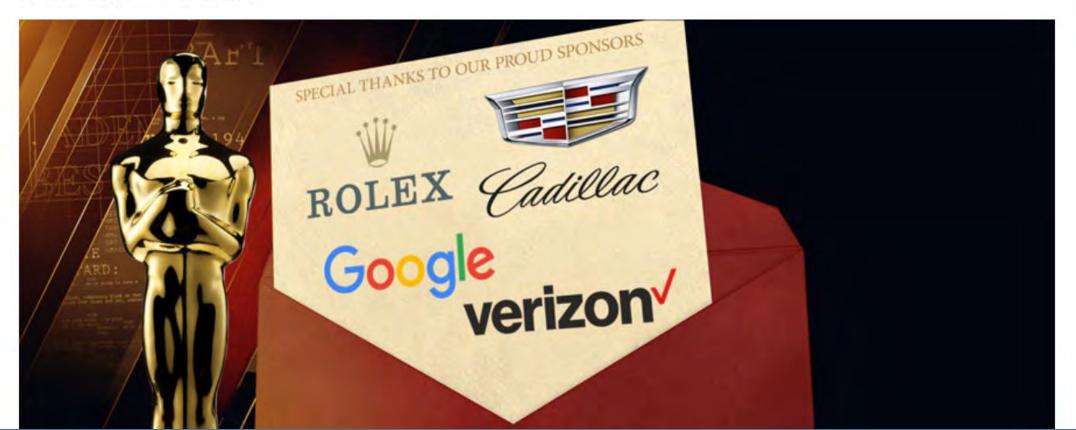


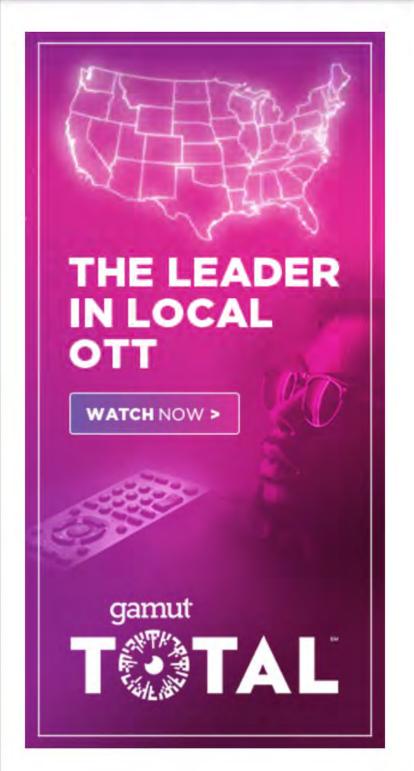
That's a 20 percent drop from last year, and roughly three million fewer than the number of people who tuned in for the 2018 ceremony, the previous low. Those numbers do not include viewers who watched the broadcast on streaming platforms.

ABC Sells Out Oscars Ad Inventory, With 30-Second Spots Going for Up to \$2.8 Million

One week after the Super Bowl, advertisers again create custom ads for a big TV audience

By Jason Lynch | 3 days ago









SMARTER LIVING

The New York Times

How to Navigate a Flood of Streaming TV Subscriptions

We wanted à la carte television, and now we have it — and it costs more than cable. Here's how to watch your favorite shows without overpaying for a dozen apps.

By Eric Ravenscraft

Jan. 14, 2020



















CLOUD

INNOVATION

SECURITY

NEWSLETTERS

Thousands of hacked Disney+ accounts are already for sale on hacking forums

Hackers began hijacking accounts hours after Disney+ launched earlier this week.













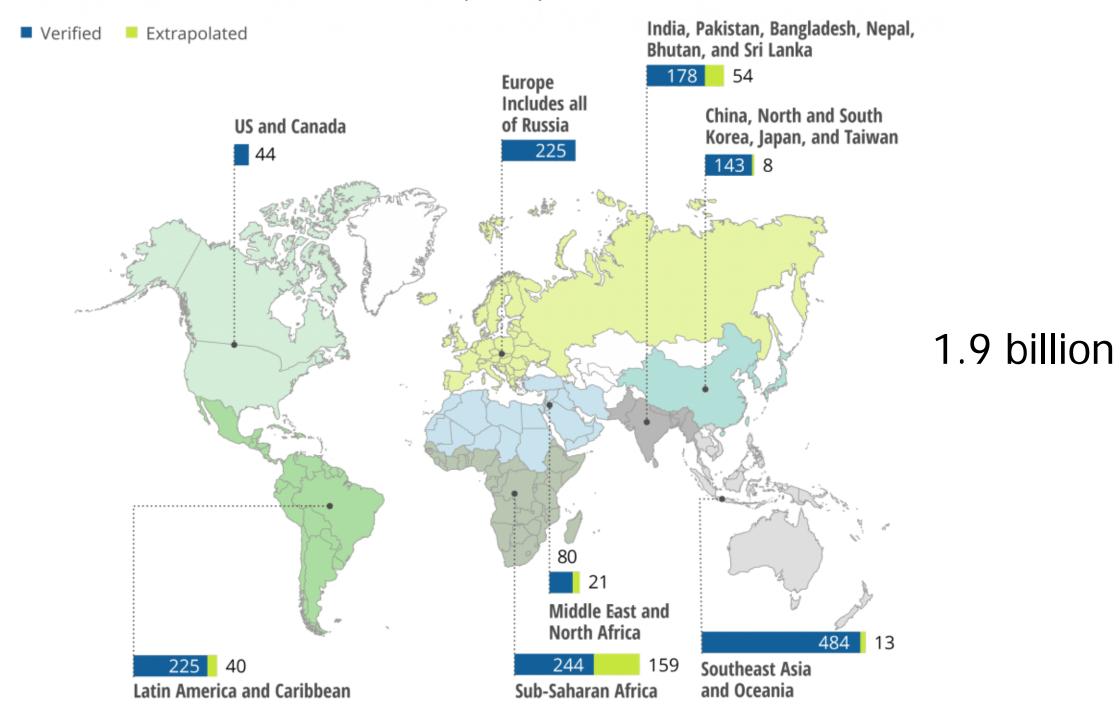


By Catalin Cimpanu for Zero Day November 16, 2019 -- 08:00 GMT (00:00 PST) | Topic: Security



Rumors of antenna TV's death have been greatly exaggerated

Predicted number of antenna TV viewers in 2020 (millions)



Source: Deloitte analysis of public data.



JANUARY 29, 2020 6:17pm PT by Carolyn Giardina

Studios Re-up Kodak Deals to Keep Celluloid Film Alive

The five major studios — Disney, NBCUniversal, Paramount, Sony and Warner Bros. — have inked new deals with Kodak, the film manufacturer said Wednesday, committing to buying undisclosed amounts of motion picture celluloid and thus guaranteeing its continued use for the foreseeable future.

The first such pacts between Kodak and the studios were struck in early 2015, roughly 18 months after the film manufacturer emerged from bankruptcy protection. At the time, its film sales had plummeted as the use of digital imaging









Celluloid Junkie BNEWS





Record Breaking Year for European Cinema Attendance





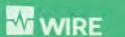














Theater Owners Celebrate A Robust 2019 Box Office And Note Strength Of Upcoming Films

2019 second-highest box office ever

Movies grossing under \$100 million grossed the same in 2018; unaffected by streaming

Despite the focus on the share of the top 10 movies in 2019, movies grossing over \$100 million actually accounted for the same share of the total box office in 2019 as in 2018 (63.8% v 63.9%). More significantly, titles grossing under \$100 million accounted for essentially the same revenue at the box office in 2019 as in 2018 (\$4.41 billion v \$4. 43 billion). These are the exact type of movies that streaming is said to be harming.



HOME > DIGITAL > NEWS

DECEMBER 5, 2018 7:52AM PT

Tom Cruise Explains Why HDTV 'Motion Smoothing' Is Terrible, Urges Movie Fans to Disable It















PRESS RELEASES 1 hour ago

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UHDA's Filmmaker Mode Recognized by DGA, ASC, ICG and the Film Foundation as Preferred Way to Deliver Creative Intent for Home Viewing









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While Filmmaker mode received a lot of promotion at CES, I am not a fan. That's because Filmmaker mode turns off all the picture processing (motion, noise, sharpness) to theoretically recreate what the content creator intended. But TVs don't behave like grading monitors. As a result, high-contrast scenes in HDR content can exhibit increased judder especially on larger TV screens, in addition to sometimes objectionable motion blur and noise. When SDR content is viewed in Filmmaker mode, the full screen luminance is capped at 100 nits and the gamma is set to 2.4. This is much closer to what the colorist sees in the grading suite, but it is likely to look too dark to most consumers. Both of these issues – lower brightness with SDR and increased judder with HDR may make many consumers want to turn off Filmmaker mode.

LG and Panasonic recognize these concerns. Panasonic specifically announced what they call "Intelligent Sensing" designed to work with both SDR and non-Dolby Vision HDR content when operating in Filmmaker mode. It uses the light sensor to adjust the picture, but details of how it works were not revealed. (Philips has also highlighted in its 2020 European launch that it is using AI to detect different types of content and optimise appropriately - Editor)

< → C







DISPLAY DAILY 7 months ago

Games of Thrones: The Very Dark Night - What went wrong (and how can WE fix it)?















Hollywood

Friday, December 8, 2019

5G Rescues Kittens & Puppi

Hollywood, HPA News Service

After firefighters declared the five-alarm fire burning at a warehouse at Hollywood & Vine to be hopelessly out of control, the owner said there was a crate of cute kittens & puppies in his office. Fire chief Etaoin Shrdlu said he was very sorry, but there was no way he could rescue them.

leaping over barriers and smashing through walls with record speed. The gathered crowd gasped but cheered and applauded moments later when 5G emerged, holding all of the cute kittens and puppies, which were completely unharmed.

The mayor said 5G deserves a medal and will be given the key to the city at the next HPA Awards ceremony.

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5G



Was!

5G Solves Climate

By I. P. DALEY

Geneva (TVN): Scientists at the International Summit on Climate Change were astonished to discover that 5G had completely solved the climate crisis. Conference leader Professor Sanjay Mehta of Mumbai Institute of Technology said he was skeptical at first.

"I enlisted all of the facilities of the Worldwide Climate Modeling Group," Professor Mehta reported, "and we ran the numbers ten times

Just then, 5G showed up,

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Mag

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A Real 5G Exhibit at CES



Forbes

204,879 views | Jan 10, 2020, 05:13pm

Somebody Snuck A Potato Into CES 2020 To Make A Scathing **Point About Useless Smart Gadgets**



Pete Pachal Contributor ①

Pete Pachal is a veteran tech journalist and the former Tech Editor of Mashable.











SUBSCRIBE



ONE MORE G, BUT NO MORE SPEED -

At launch, AT&T's real 5G will only be as fast as its fake 5G

5G on low-band spectrum will be similar to LTE-Advanced until further upgrades.

JON BRODKIN - 11/22/2019, 12:50 PM







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5G Underwhelms in Its First Big Test

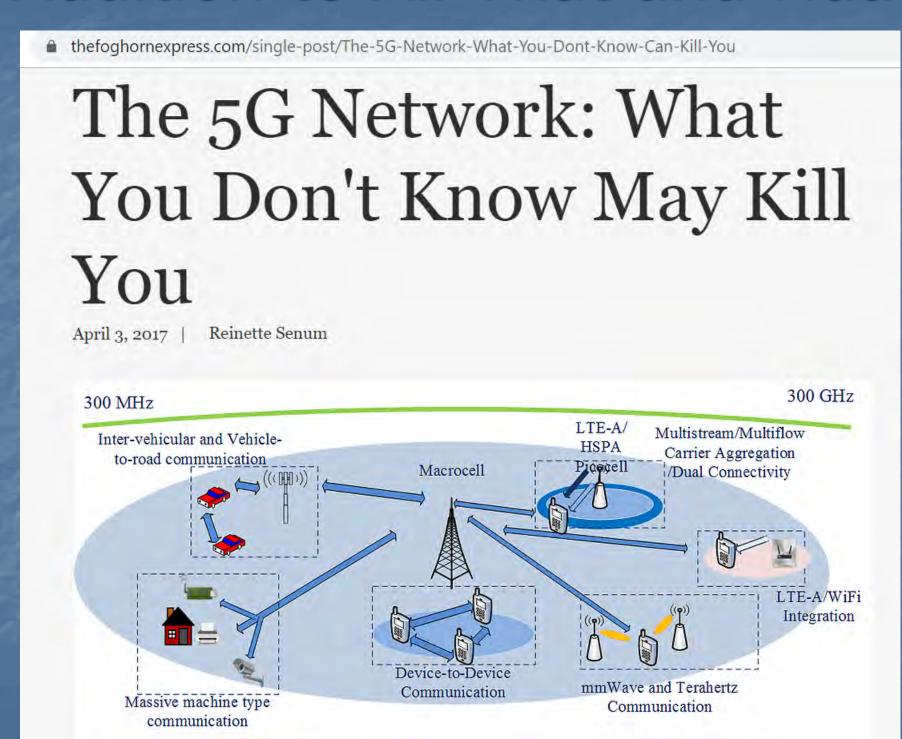
In South Korea, where the next-generation wireless network has been rolled out widely, download speeds have risen but many users aren't impressed





SHELTER ISLAND

In Addition to All That and Huawei





DIGITAL TRENDS

Home Theater

Super Bowl 2020: The madness and magic behind the game's first 4K HDR broadcast

By Caleb Denison January 30, 2020 10:43AM PST









DIGITAL TRENDS

Home Theater

Super Eewi 2020: The madness and magic behind the game's first 4K HDR broadcast W.

By Caleb Den son January 30, 2020 10:43AM PST







Thanks to
Pete Putman
for the term
"Faux K"



Search

Consumers Top Cable Data Limits by Streaming 4K Video

By Debra Kaufman August 19, 2019

Some consumers who binge on Netflix shows and other streaming programs in Ultra HD are beginning to feel the financial pinch. The 4K content quickly eats up users' data caps — and costs them extra money for more high-speed Internet access. The number of such "power users" has reportedly doubled in the past year, and shows no sign of decreasing as more companies are unveiling new streaming video services. Consumers who

also sometimes insufficient bandwidth (tip o' the hat to Craig Todd)



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DISPLAY DAILY 2 hours ago

Your Display's Night Mode Could Keep You Awake







Home » Archive » DFL tests world's first football broadcast in 9:16 format

DFL tests world's first football broadcast in 9:16 format







U.S.







PLAY THE CROSSWORD

Account v

Epilepsy Foundation Was Targeted in Mass Strobe Cyberattack

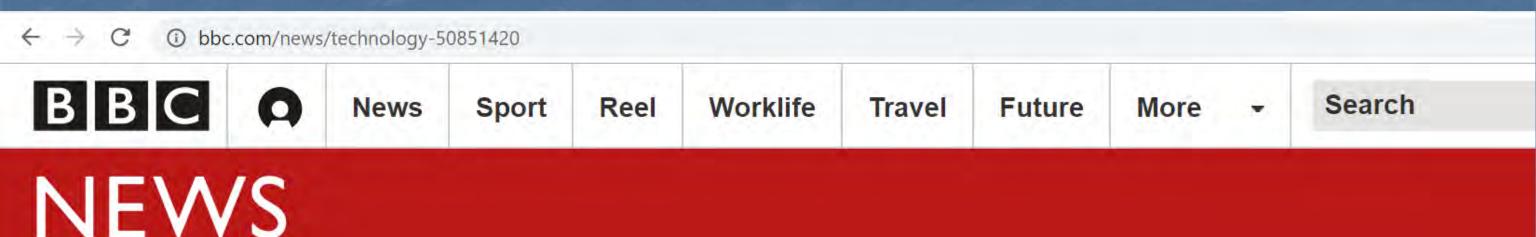
Hackers sent images of flashing strobe lights to the foundation's thousands of Twitter followers in several attacks.



image trimmed

The journalist Kurt Eichenwald was sent a strobing image over Twitter that caused him to have an epileptic seizure. Brandon Thibodeaux for The New York Times

Resiliency



Technology

Google goes offline after fibre cables cut

0 19 December 2019



Eastern Europe & Middle East

Security



Opinion | THE PRIVACY PROJECT

Jeff Bezos' Phone Hack Should Terrify Everyone

Those with the most to lose don't always safeguard their privacy very well. You can do better.



By Charlie Warzel
Mr. Warzel is an opinion writer at large

Jan. 24, 2020















Week's top

Latest news

Home / Hardware Home / Engineering







6.9K

58

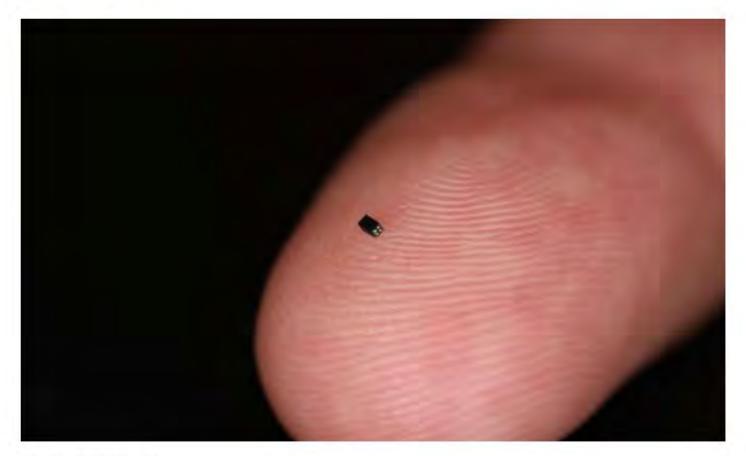
∠ Email

Share

① OCTOBER 29, 2019 (REPORT)

OmniVision announces world record for smallest image sensor

by Bob Yirka, Tech Xplore

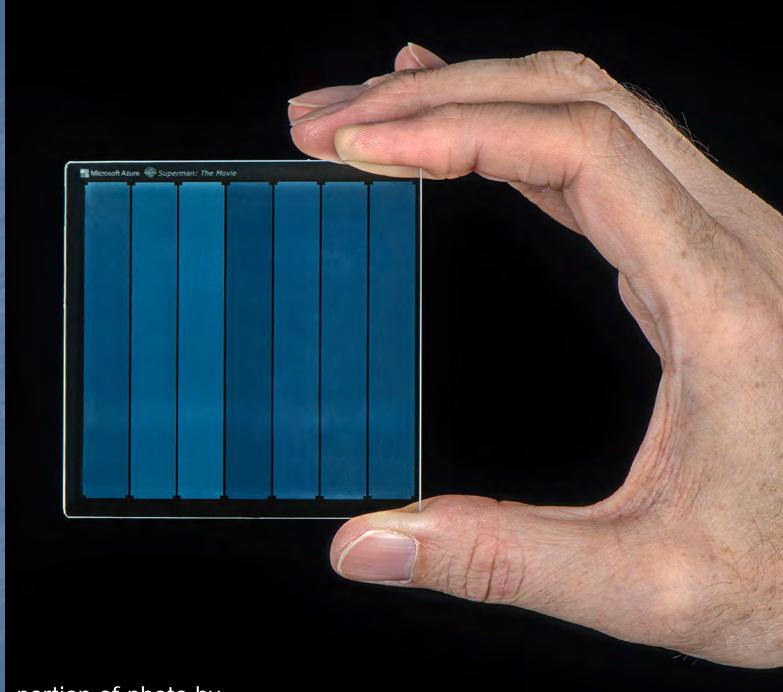


Credit: OmniVision

0.65 mm x 0.65 mm camera module

Long-Term Storage on Glass

Microsoft Project Silica proof of concept all of *Superman –* 75.6 GB 7.5 x 7.5 cm



portion of photo by Jonathan Banks for Microsoft · All topics · Video · Slideshows · Deals · Online Courses · Newsletter · Resources/White Papers



Home > Storage

Optware to commercialize 1T-byte optical disc

















By Kuriko Miyake

IDG News Service | FEBRUARY 20, 2002

FEBRUARY 20, 2002

Questions? (if time allows)

these slides are already at bit.ly/hpa2020-intro