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The mobile phone that lets you cheat at ANY card game: Handset has secret sensors to read cards

- Researcher shares a cheating device that is almost impossible to detect
- Eli Bursztein purchased what looks like a Samsung smartphone for \$1,300
- Has a hidden camera and IR LEDs on the side to read each card in the deck
- Sequences of black spots created by the IR shows the suit and value
- Everything is then displayed in an app on the device for players to read

By [STACY LIBERATORE FOR DAILYMAL.COM](#)

PUBLISHED: 17:09 EST, 24 October 2016 | **UPDATED:** 18:14 EST, 24 October 2016

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Counting cards, hand mucking and bottom dealing are all common ways to cheat while playing card games, but are also easily detected.

Now, a Google researcher has revealed a gadget that looks and functions like a smartphone - but with software and hardware designed for cheating at cards.

An app reads markings on each card with a hidden camera, and can analyse the patterns to determine the card's suit and value to help the player decide their next move.

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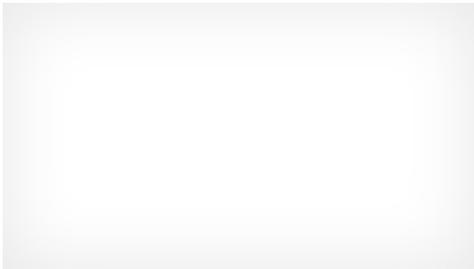
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A researcher shares a cheating device (pictured) that looks like a smartphone, but has software and hardware dedicated to cheating. The app reads markings on each card with a hidden camera, in order to determine the card's suit and value

ADVERTISING



Eli Bursztein, leader of Google's anti-abuse researcher team, shared his experience with a cheating device he purchased online.

'Upon ordering the poker cheating device I kinda expected, based on the screenshots I had seen early on, to get a dedicated piece of hardware that kinda looked like a fake phone,' he wrote in a recent [blog](#) post.

'However, to my surprise, the device, showcased in the picture above, far exceeded my expectations by being a fully functional phone with extra hardware dedicated to cheating.'

Bursztein states the device does in fact act as a fully functional phone - users can make calls and use their favorite apps.

The cheating device looks similar to a Samsung smartphone, in both the outside design and user interface.

It is also equip with 8GB of storage and 1GB of RAM, and Bursztein says the only way anyone would question this phone as being a cheating device is if they notice it runs with a custom Chinese 4.2.2 ROM.

HOW DOES IT WORK?

After you've decided on a game, the software sends you to the main cheating screen.

The top area of the screen shows a view of the deck, which is gathered by a secrete camera embedded on the side of the device.

The image shows the top of the deck on the right of the screen and the bottom on the left.

The bottom of the app screen shows users the details of the game - how many players, type of game, if the haptic feedback device is connected and who is winning.

When illuminated by the IR LEDs, a sequence of black spots is created that is captured by the camera - this determines the card's suit and value that is then captured by a hidden camera.

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The hardware used for cheating is powered by a custom Android app through a unique kernel module.

Other than the dedicated app, which is named 'game', there is no way to interact with the hardware.

When users launch they app, they are asked to sign in with a password.



The hardware used for cheating is powered by a custom Android app (left) through a unique kernel module. When users launch they app, they are asked to sign in with a password (right) and the password is given to the buyer when they receive the device

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HOW CARD COUNTING WORKS

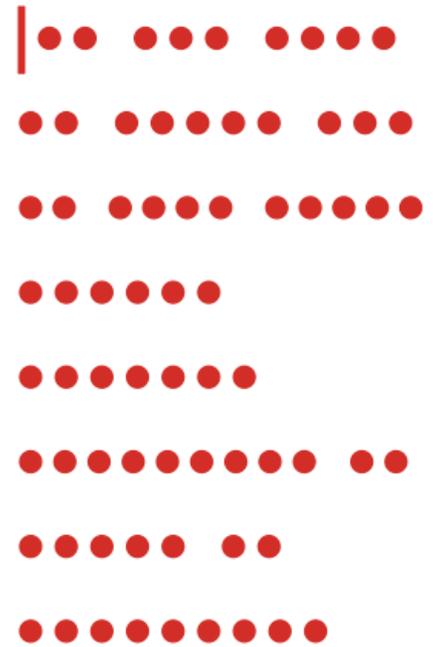
In Blackjack, the aim of the player is to achieve a hand of cards whose points add up nearer to 21 than the dealer's hand, but without exceeding 21.

Card counting is based on the fact that a large proportion of high cards (such as tens, jacks, queens and kings, which are all worth ten points) left in the unplayed deck statistically improves the player's chances.

This is because a player can decide not to draw a new card to a hand such as 16, but the casino is forced to, as it follows strict rules.

If there are a high proportion of high cards left in the unplayed deck of cards, the dealer has more chance of busting (going over 21).

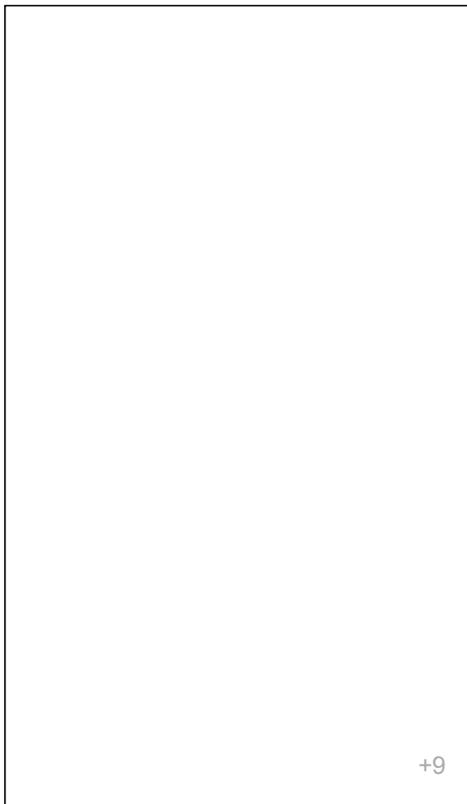
This can be combined with 'basic strategy' – developed from computer simulations of millions of blackjack hands – which tells the player the best action to take for each possible card combination.



'As a security measure against the device being lost in transit, this password is communicated to the buyer only when they have confirmed that they have received the device,' shares Bursztein.

'Ironically, there is a hardcoded backdoor password in the app, which makes this security measure pointless if you know the backdoor password.'

There are six icons in the main menu, but only two of them are deemed important by Bursztein: the game hall, which allows users to configure the device; and the purchased screen, which activates the cheating device for a given game.



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▶ Check them out! Marc Mezvinsky wears some VERY snazzy \$596 sneakers as he sits FROW of Burberry with wife Chelsea Clinton who dons a \$1,250 dress

▶ Jovial Angelina Jolie cozies up to human rights activist and First They Killed My Father author Loung Ung on the BAFTAs red carpet All smiles

▶ Kate Mara exudes glamor in a sparkling black strapless gown as she supports Best Actor nominee husband Jamie Bell on the BAFTA red carpet

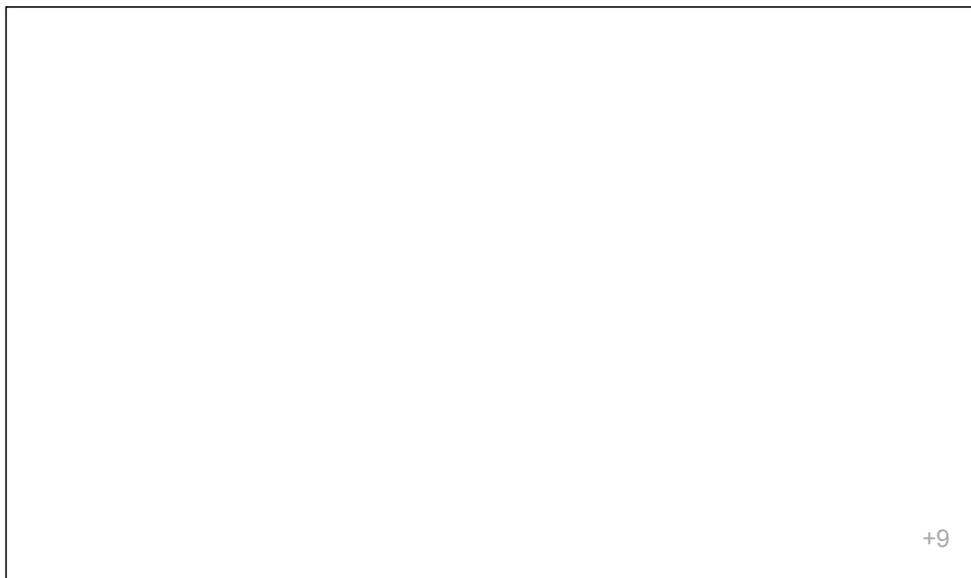
▶ Jennifer Lawrence showcases her toned curves in elegant off-the-shoulder black gown with daring semi-sheer back at glittering BAFTAs

Margot Robbie dazzles in a sensational lace gown as she joins

There are six icons in the main menu (left), but only two of them are deemed important by Bursztein: the game hall (right), which allows users to configure the device; and the purchased screen, which activates the cheating device for a given game

Users will find all of the supported games in the 'game hall', which has about 100 different games to choose from.

The setting screen is where configuration is carried out such as connect to accessories and how the prediction of the winner is reported.



The top area of the screen shows a view of the deck (pictured), which is gathered by a secret camera embedded on the side of the device. The image shows the top of the deck on the right of the screen and the bottom on the left. The bottom shows details and the cards

HOW TO COUNT CARDS

Assign a value to each card in the pack.

Mentally keep a 'Running Count' of all the cards that are played.

The total provides what's known as a 'true count' for each deck of cards.

Change your bets as the true count rises.

A simple example: A player, playing basic strategy, is dealt a ten and a six.

One of the dealer's cards is visible to the player, and it shows a three. Another is hidden.

The player would typically stand on the hope that the dealer's hidden card is a high number and that will draw a ten and bust.

A dealer must hit up to a soft 17, and if a dealer holds a soft 16, he has to hit.

However, if the player was counting cards and knew there were low cards in the deck, the player could draw another card safely.

For example, users can customize the device to continuously tell them who is winning the game or just tell them once.

And the purchase screen lets users choose which game the device is to analyze.

After you've decided on a game, the software sends you to the main cheating screen.

▶ fellow first-time BAFTA nominee and I, Tonya co-star Allison Janney on the red carpet

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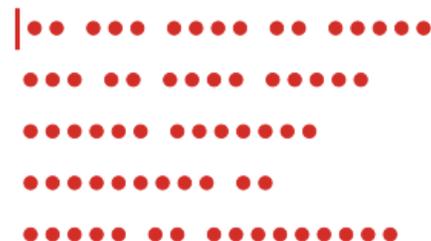
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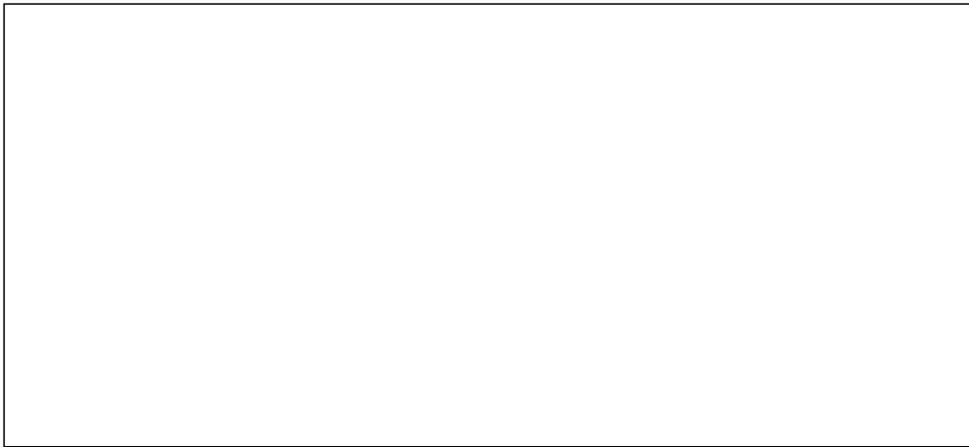
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The Irish actress

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The hidden camera is placed on one side of the device and the infrared filter has been taken out so it can understand IR light. There are also three hidden IR LEDs positioned near the camera that illuminate the deck to make the markings on the card visible

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The best way to illustrate this behavior is to take a picture of the device while it is powered on in the dark with a camera with no IR filter. Doing so, as you can see, the three LEDs are clearly visible (pictured)

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The top area of the screen shows a view of the deck, which is gathered by a secret camera embedded on the side of the device.

The image shows the top of the deck on the right of the screen and the bottom on the left.

'This image is mainly used to adjust the device relative to the deck to ensure the cards are read accurately,' shares Bursztein

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The hidden camera is placed on one side of the device and the infrared filter has been taken out so it can understand IR light. There are also three hidden IR LEDs positioned near the camera that illuminate the deck to make the markings on the card visible

HACKING ONLINE POKER GAMES

The spyware is called Win32/Spy.Odlanor.

Like other computer trojans, Win32/Spy.Odlanor can be unwittingly installed on a computer if the user downloads infected apps or software online.

Once installed, the Odlanor malware is used to create screenshots of the window of the two targeted poker clients, PokerStars or Full Tilt Poker, if the victim is running either of them.

The screenshots are then sent to the attacker's remote computer.

These screenshots not only reveal the hands of the infected opponent but also their player ID.

Both of the targeted poker sites - PokerStars and Full Tilt Poker - let players search for others using this ID, so it is easy for a hacker to connect to tables the victim is playing on.

'With a little practice, it is actually fairly easy to position the device without the help of the camera view.'

Now, the bottom of the app screen shows users the details of the game – how many players, type of game, if the haptic feedback device is connected and the results.



The sequence of black spots are created by the IR illumination, illustrated in the image pictured, and is read remotely by the cheating device to infer a card's suit and value. You can think of those markings as invisible barcodes



Each card has a unique code, as visible in the photo above, which shows the markings for the six of hearts, six of clubs, six of diamonds, five of diamonds and five of hearts. These markings are repeated on each side of a card

The hidden camera is placed on one side of the device and the infrared filter has been taken out so it can understand IR light.



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She showed off her youthful looks by stripping off

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Swapped her basketball jersey for a sexy gown

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There are also three hidden IR LEDs positioned near the camera that illuminate the deck to make the markings on the card visible.

'A neat trick is that the phone housing is made of IR passband plastic: while the side of the phone appears to be solid and opaque, in reality it allows IR light to pass through,' says Bursztein.



Removing the enclosure reveals, as visible in the photo above, that the secret camera is connected to a dedicated chip. Removing the black tape on the top left corner reveals the IR LEDs, as visible in the screenshot below

'The best way to illustrate this behavior is to take a picture of the device while it is powered on in the dark with a camera with no IR filter.'

'Doing so, as you can see, the three LEDs are clearly visible.'

However, what pulls the entire system together is a special deck in which the four edges of each card are marked with IR absorbing ink.

When illuminated by the IR LEDs, a sequence of black spots is created that is captured by the camera – this determines the card's suit and value.

'Each card has a unique code, as visible in the photo above, which shows the markings for the six of hearts, six of clubs, six of diamonds, five of diamonds and five of hearts,' says Bursztein.

'These markings are repeated on each side of a card.'

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The 25-year-old rapper

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She sizzled

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A leggy display

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The actress is 30

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Dead Cat Bounce, Springfield, United States, 1 year ago

Use my deck please dealer and I'll keep watching my screen that I've covered up so you don't notice it reading the cards.....genius!

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ewaf88, London, 1 year ago

All well and good but just don't use the casino where Nicky Santoro and Sam 'Ace' Rothstein work.

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Flap Zappa, inaflap FM, United Kingdom, 1 year ago

So to cheat you need to use a special pack of cards and hope the dealer does not notice the software running on the phone or you constantly checking the phone. What on earth could go wrong with that.

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Sweet dreams

▶ **So in love! Madison Beer and boyfriend Zack Bia pile on the PDA at Jamie Foxx's charity basketball game**

▶ **'I had a nervous breakdown': Kylie Minogue, 49, discusses her split with Joshua Sasse... as she reveals she will NEVER have children**

▶ **'New nose!' Southern Charm's Naomie Olindo undergoes plastic surgery after break-up**
The 25-year-old Bravo star revealed she had undergone a nose job

▶ **Lily James stuns in a gold embellished dress with a sheer bodice as she cosies up to boyfriend Matt Smith at Burberry LFW show**
Baby Driver actress

▶ **Slam dunk! Anwar Hadid locks lips with girlfriend Nicola Peltz at Jamie Foxx's charity basketball game**
Tad distracted?

▶ **'He's insanely pretty!' Sally Field shares son Sam's text admiring Olympic figure skater Adam Rippon... and tags the star in bid to set them up**

▶ **American slopestyle skier Nick Goepper celebrates silver after becoming SUICIDAL and battling a drink problem in wake of Russia 2014**
Numerous struggles

▶ **Naomi Watts cuts a casual figure as she touches down in London... amid claims her friendly embrace with Justin Theroux left Jennifer Aniston 'upset'**

▶ **Inside Amy Schumer's big day! Tears, toasts and tipsy guests as comic posts more intimate behind the scenes photos from surprise wedding**

▶ **'How am I going to get him to New York?' Cardi B receives enormous plush teddy bear from fiance Offset**

▶ **These boots were made for walking! Camila Cabello steps out in eye-catching footwear and chic skirt during London Fashion Week**

▶ **'You are one of a kind': Paris Hilton's aunt Kyle Richards shares throwback baby photo of the star as socialite throws lavish 37th birthday bash**

▶ **Leggy ladies! Kristen Stewart flaunts her lithe limbs in tiny shorts while girlfriend Stella Maxwell accentuates her gams with PVC trousers**

▶ **Mommy approved! Victoria Beckham proudly shows off son Brooklyn's new 'Mum' tattoo in sweet Instagram**

▶ **'It's just a phase and I'm going to stand still in the corner': Lionel Richie thinks his daughter Sofia, 19, is trying to get back at him by dating Scott Disick, 34**

▶ **Joanna Lumley reveals she felt pressured to strip for 1971 film role after saying she DOESN'T regret working with Weinstein**
Ab Fab actress

All that glitters! Greta Gerwig sparkles in gold mini dress as she turns

▶ **heads at British Academy Film Awards nominees party**

▶ **That didn't last long... Cheryl and toyboy lover Liam Payne 'could split in weeks' just a year after their son's birth**
Liam's touring schedule causing tension

▶ **Smitten Idris Elba packs on the PDA with new fiancée Sabrina Dhowre as they snuggle up on the FROW at Burberry's LFW show!**

▶ **'I still can't believe it!' Jessica Alba poses for a selfie with Honor and Haven as they cuddle baby brother Hayes**
She's a proud mother-of-three

▶ **Supermodel and Michael Hutchence's ex-girlfriend Helena Christensen, 49, will return to Melbourne Fashion Festival**

▶ **Zoe Ball receives a helping hand from beau Michael Reed as she moves out of her home close to ex DJ Fatboy Slim... to allow her to 'move forward with her new relationship'**

▶ **'You are the most fun!!': Britney Spears fan-girls over Olympic figure skater Adam Rippon while Sally Field tries to get him to date her son**

▶ **'You could truly feel the love!': The View's Jenediah Bila weds fiance Jeremy Scher in New York**
'I'm super excited. Super, super excited', she said

▶ **Forget something? Jennifer Lawrence goes trousers-free as she showcases her fantastic legs in ultra-short sweater dress**

▶ **GIRL ABOUT TOWN: Margot Robbie - gets her skates on for the big Bafta bash which could see her land the best actress gong for her role in I, Tonya**

- ▶ **GIRL ABOUT TOWN:**
Check this out! Cara Delevingne closes Burberry director Christopher Bailey's last ever catwalk show for the Brit fashion house

- ▶ **Game of Thrones star**
Natalie Dormer flashes a glimpse of her cleavage in semi-sheer nude ballgown at the star-studded BAFTA Nominees' Party

- ▶ **'Hope, peace and unconditional love':**
Teen Mom's Tyler Baltierra gushes after visiting his wife Catelynn Lowell at Arizona rehab center she's in

- ▶ **Bumping along just nicely!** April Love Geary covers up growing torso in patterned dress as she holds hands with Robin Thicke

- ▶ **Super mom!** Hilary Duff shows off her toned figure in sleeveless tee as she takes son Luca to lunch
Quality time

- ▶ **Moss be fashion royalty!** Elegant Kate, 44, joins forces with fellow age-defying supermodel Naomi Campbell, 47, at star-studded Burberry LFW show

- ▶ **Getting daddy moving!**
Pregnant Hilaria gets Alec Baldwin out and about with Carmen and Rafael... less than two weeks after hip surgery
He had his hip replaced

- ▶ **At least one Friend is happy!** Courteney Cox packs on the PDA as she is reunited with Johnny McDaid after comforting Jennifer Aniston

- ▶ **Hell for leather!**
Lindsay Lohan steps out in figure hugging leather dress and headscarf at London Fashion Week
The actress wore an all-black outfit

- ▶ **Samuel L Jackson stops traffic as he's joined by the original and new Shaft actors on the set of sequel**
Donning the character's famous trenchcoat

Jennifer Aniston 'didn't like' Justin Theroux's friendly hug with Naomi

▶ **Watts and 'grew increasingly angry that he acted like he was single'**

▶ **Why it's got to be CURTAINS for Harry's style! We thought there was something familiar - and homely - about those drape suits... Gaudy curtain patterns**

▶ **'Rise of the women!' Rose McGowan makes a statement in message sunglasses in Beverly Hills**

▶ **Aussie actor Daniel MacPherson talks 'reinventing' his career in the US... as he gears up for the premiere of his new film co-starring Oprah Winfrey**

▶ **Red alert! Gigi Hadid is impossible to miss in head to toe crimson knitted outfit**
She's known for her fashion-forward sensibility

▶ **Sienna Miller flatters her slender figure in clashing prints as she makes trendsetting arrival at star-studded Burberry show for LFW**

▶ **Russell Simmons looks low-key in first sighting since he skipped town for Balinese yoga retreat after sexual misconduct allegations emerged**

▶ **'They communicate from time to time': Jennifer Aniston 'kept in touch with ex Brad Pitt while marriage to Justin Theroux was ending'**
Shoulder to cry on?

▶ **All covered up! Eva Longoria keeps her bump under wraps while husband Jose Baston takes a dip in the pool in Miami**
Taking it easy

▶ **Not your Grandma's crochet! Alessandra Ambrosio shows off her figure in a tiny knitted bikini**
Spotted taking a dip in the Caribbean Sea

▶ **'Recovery!' Kaia Gerber kicks back in a bikini with mom and dad after a grueling New York Fashion Week**
Shared a picture as she relaxed on a pool towel

▶ **'What's going on with Karlie Kloss and Taylor Swift?' Jennifer Lawrence calls out the onetime BFFs**
Haven't been seen together in months

▶ **'All natural!' Alessandra Ambrosio poses naked in a swing on luxury beach vacation**
36-year-old former Victoria's Secret Angel

▶ **Kate Hudson looks boho chic in a floral maxi skirt and plunging top alongside her boyfriend Danny Fujikawa**

▶ **Daddy's little girl! Rob Kardashian shares sweet video clip of daughter Dream saying 'dada' from her crib**
He and Blac Chyna welcomed her last year

▶ **Girls' night out! Caitlyn Jenner, 68, steps out in Los Angeles with gal pal Sophia Hutchins, 21**
She has been dealing with a rift in her family life

▶ **Margot Robbie makes a bold style statement in fringed white minidress as she joins Gemma Arterton, Salma Hayek and Karen Gillan at BAFTA nominees bash**

▶ **Oh so chic! Isabelle Huppert dazzles in all-white pantsuit as she turns heads at Berlin International Film Festival**

▶ **Bike it like Beckham! Brooklyn showcases catwalk trends in bomber jacket and flat cap as he races around NYC**
A wheelie great time

▶ **Check her out! Zendaya commands attention in stunning yellow checkered jacket and graffiti suit as she sits front row at Burberry's LFW show**

Supermodel Cara Delevingne bursts onto the catwalk in colorful coat as she joins forces

▶ with Sienna Miller, Kate Moss and Naomi Campbell for Burberry's collection at LFW

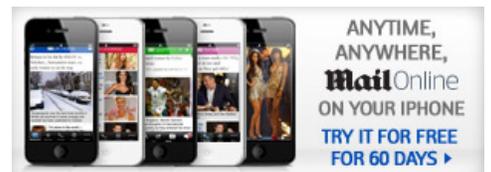
▶ She's only getting better! Britney Spears soars as she recreates leap picture from two years ago
Perfectly aligned pose was even better

▶ Liam Gallagher enjoys rare family outing with girlfriend Debbie and his son Gene at Burberry's LFW show... after admitting he's NEVER met his two daughters born from his affairs

▶ He's still mommy's baby! Gwen Stefani cradles son Apollo as the two enjoy some mommy and me time
Spent time with her youngest son

▶ Ariel Winter puts on cheeky display in skimpy playsuit for coffee date with boyfriend Levi Meaden
The 20-year-old actress showcased her curves

▶ Nicole Scherzinger looks sensational in a raunchy leather mini dress for the Adidas All Star Weekend in Los Angeles
All eyes were on her



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► Apple's new iPhone X is a glimpse into the future

After a day with the iPhone X, while Face ID isn't perfect, and the 'notch' is an annoyance, the iPhone X is a glimpse into the future of phones and the best handset of the market by a long way.



► Shinola hopes to banish Beats with the best looking headphones around

They aren't cheap, but Shinola's \$595 foray into headphones are the perfect accessory for design obsessives looking to upgrade their listening habits.



► The best Android handset out there: Google Pixel 2 review

With the Pixel XL, Google has created a handset that is not only the best Android device out there, but arguably matches the iPhone 8 in terms of design and feel.



► Apple Watch Series 3: The smartwatch that liberates you from your phone

Apple's Watch will free you from your phone - while making sure you don't suffer the fear of missing out. It's a huge step forward, and a



compelling reason for the average user to buy a smartwatch.

▶ **iPhone 8: Why a lack of X appeal shouldn't put you off**

While the iPhone X may have stolen the headlines, in fact the iPhone 8 could be the sleeper hit of Apple's new range, offering the same power as the X but with features and a design users trust.



▶ **Is it really worth paying £280 for Nintendo's Switch? MailOnline's verdict**

While the design is impressive and easy to use, the game line up is disappointing.



▶ **The \$1,000 wireless speaker that really IS worth the price: Naim Mu-so Qb review**

Naim's incredible Mu-So Qb takes you back to the good old days - where the music captivates and entralls, rather than simply being something in the background.



▶ **The best all in one wireless speaker you'll ever hear: Naim Mu-so review**

It might not be a name familiar to the US market, but Naim is a legendary British brand hoping to make a splash with the American launch of its \$1499 Mu:So speaker.

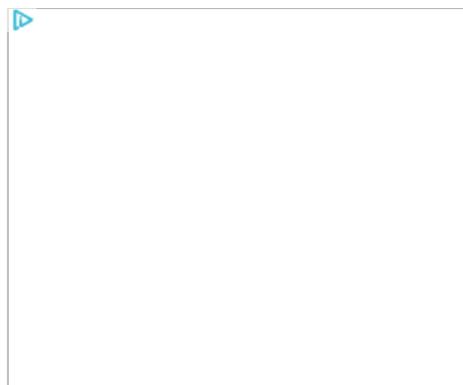


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