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Microsoft's Surface Dial is a new accessory that non-creatives may not much need, yet it intrigues anyone who sees it. The Windows 10 add-on has a ton of potential for artists, engineers, and maybe even you soon. Why is it so cool? I look at what the Surface Dial can do today with an eye on the future. What it is The Surface Dial is a small, Bluetooth-enabled...well, dial. Think of it as an accessory, or a secondary - or even tertiary - level of input while using Windows 10. Who can use it? The Surface Dial is compatible with any Windows 10 PC running the Anniversary Update. Microsoft introduced the world to Surface Dial as an accessory for the Surface Studio but the device pairs and works on any computer with a Bluetooth connection. The one current limitation involves using the device physically on the screen. Only the Surface Studio can do that although Surface Book and Surface Pro 4 should also get a firmware update early next year to allow users to place it on their display. If you do not have a Surface Studio - aka most you - you just put it near your keyboard (preferably the left side if you're right-handed and use a mouse). What does it do exactly? The million-dollar question: Why would you need this? Surface Dial is primarily aimed at artists, engineers, and graphic designers. The device lets users call up pen, paint, brush, and measuring tools without lifting and moving the pen off the display. In short, it's an aide for drawing or creative shortcuts. The kicker is that any app can support Surface Dial. Microsoft has open APIs for the device so that a developer can add support and specific functions unique to their app. That means there is a lot of potential here that will take a few months to be realized. What apps support it? Right now, Surface Dial supports the following apps: Bluebeam Drawboard Mental Canvas Sketchable Smith Micro Spotify Staffpad Windows (limited system interactions) Word, PPT, Excel (desktop versions) OneNote (UWP version) Windows Maps Plumbago Sketchpad Groove Music PewPew Shooter Microsoft Photos Paint For instance, I'm using Surface Dial on my main PC as I write this review in Word. The Dial lets me scroll the document using my left hand with ease. I can also change functions and enable Zoom, Undo, or control the system volume (good for music). Some of the options for Surface Dial that work even in Word To change features, you just press down on the Dial for one second. The device vibrates and displays an on-screen radial dial with a choice of function. In Groove Music, you can switch tracks, scrub the track, control volume, or skip to the next track. In Microsoft Edge, you can scroll the web page, zoom, etc. Surface Dial instantly adapts to each app that is currently active with new choices set by the developer. The Surface Dial settings let you configure default functions and add custom ones Obviously, for artists Surface Dial does a lot more useful things like pick the paint color, set brush width, zoom, undo, and more. So, what's the big deal? You may be wondering why is the non-artist stuff even interesting? Good question. Here is what I can tell you: Surface Dial allows for very fine-grain movement that is more sensitive and accurate than a mouse, keyboard arrows, volume buttons, etc. The Surface Dial's bottom has a laser-etched rubber pad for optimal tackiness Surface Dial feels like a luxurious knob for Windows 10 that lets you gently scroll, undo, navigate and more. While not an essential tool it's one of those 'nice to have' features for your high-end PC setup. In other words, you can make use of it every day for little tasks. Worth the \$99? I don't need to convince the artists, engineers, and designers out there that they want to buy Surface Dial. There are other similar devices on the market already for those fields, and Surface Dial is just a new take on an old idea for those who draw on their PC or Surface. At \$99 Surface Dial is a simple add-on that takes two AAA batteries and easily pairs with any Windows 10 PC. For the quality of the device (it's made from aluminum) with its gentle, haptic-enabled feedback \$99 seems fair for the Surface line, which has never been cheap or affordable. Speaking of batteries Microsoft estimates that the two AAA batteries will last one year assuming 4-hours-a-day of regular usage. Some question why the Dial is not rechargeable and I think the answer is just really long battery life. If you do not plan to draw on your PC or use Surface Dial in a professional creative manner, the \$99 is harder to justify. I would not classify it as a must-have accessory that will revolutionize your daily activity - and Microsoft is not promoting it as such anyway. Nonetheless, like a lot of Surface technology, it's just damn cool and fun to use even if you don't draw. Developers are just getting started with Surface Dial; there's no reason why we couldn't see support added to non-drawing apps or even light-action PC games. While I doubt there will be a required use for Surface Dial, there is a lot of potential here for this genre, and I'm excited to see what people can do with it. Artists, get it now. Non-artists, you should only plunk down the \$99 if you have nothing better to spend your money on, but keep an eye on what happens next. See at the Microsoft Store (opens in new tab) Microsoft is taking pre-orders now for Surface Dial for December 15 ship date although your local Microsoft Store may have some already in stock. No one wants to be the maintenance worker who has to hike through half a mile of damp hallways just to check the pressure gauge on a valve somewhere. LiLz makes it possible to keep an eye on such inconvenient physical interfaces remotely with a clever and practical application of machine learning. The Japanese (specifically Okinawan) startup has been around for a little while - in fact our colleagues at TC JP have written them up. But despite the seemingly obvious value of its service, it hasn't quite hit the big time yet. LiLz participated in CES as part of the country's trade group, along with a bunch more companies listed here. LiLz's device looks a bit like a chubby tablet without a screen. It's essentially a camera, light and processing and communications chips packed in with a big battery - enough power to last up to three years. You mount the device so it can see the gauge or dial in question. After confirming picture and signal, you configure it in the app to interpret what it's pointed at; it can read circular, semicircular and linear gauges, digital and rolling or analog digit displays, or things like colored warning lights. (The ML involved here is not trivial - I ran across this interesting article while looking into it.) Once it's set up, it'll send readings live or at intervals to a central dashboard, or make them available via API so they can be queried or recorded elsewhere. The data goes out via LTE or Bluetooth. Image Credits: LiLz It's a solution aimed directly at infrastructure and heavy industry, which often involve lots of legacy equipment located in hard-to-reach places: roofs, underground (but not too deep or the signal can't penetrate), in labyrinthine factories and warehouses, etc. Doing daily rounds of these dials is not just dull work for humans, but can be dangerous as well. Using a robot is another way to automate it, but doesn't a network of IoT devices seem more practical than a quadrupedal bot trucking around constantly? LiLz CTO Kuba Kolodziejczyk said that the company has been expanding quickly following its debut in 2020 and a \$2.2 million Series A round in early 2021. Image Credits: LiLz "We grew from 240 cameras deployed at 34 locations by a few early users before June 2020, to 2000 cameras deployed at 320 locations for over 100 clients now, and expect to grow to 5000 cameras by end this year," he wrote in an email to TechCrunch. "We now have a few clients using more than hundred cameras at single location." They started by targeting basic building management, but now have expanded to chemical and industrial plants, construction and manufacturing sites, public infrastructure and more due to customer demand, he added. And the capabilities of the device are increasing as well. They've mainly been iterating on the software, making it able to be updated remotely, improving accuracy and resilience to disturbance, and adding data sharing and other features. There's a new explosion-proof (I) version of the hardware as well. Maybe they should get into making phone cases as a side gig. New products are on the way, one for "sound search" and another for counting of objects in the camera's view, but both are at a very early stage now. And new capabilities like monitoring float and level gauges, among other things. Meanwhile, they've come to CES to make some outreach to potential clients outside Japan. The show is looking like something of a bust, but maybe a few techs and managers will read this and think "wow, that would be handy." You can find out more at the shiny new English website here.

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