



[Neural Network In Glass Requires No Power, Recognizes Numbers](#)

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No connection. ... Scientists have invented a way for a sheet of glass to perform neural ... The glass uses light patterns to identify images without a computer or power. ... sensors and deep neural networks into a single piece of thin glass," ... demonstration shows that their smart glass can identify numbers.. AI made from a sheet of glass can recognise numbers just by looking (newscientist.com) ... They implement a trained dense multilayer neural net with ReLU activations in silicon photonics. ... and it's not true it uses no power - you need strong enough incoming light. ... But not all AI applications require further training.. This panel of special glass requires no electrical power, and is able to recognize gray-scale handwritten numbers. The glass contains precisely controlled Glass Requires No Power, Recognizes Numbers(2019)(<https://hackaday.com/2019/07/16/neural-network-in-glass-requires-no-power-recognizes-numbers/>).. We've all come to terms with a neural network doing jobs such as ... Neural Network In Glass Requires No Power, Recognizes Numbers.. We've all come to terms with a neural network doing jobs such as handwriting recognition. The basics have been in place for years and the recent increase in We've all come to terms with a neural network doing jobs such as handwriting recognition. This panel of special glass requires no electrical power, and is able to For this paper, a neural network was codified into the glass by iteratively ... of this research, to identify and recognize graphical numbers displayed to it. ... and fast, highly specific computation in low-power environments. ... the neural network remains applicable to the one task it was created for and no other.. Neural network in glass requires no power, recognizes numbers. Researchers simulate specialized pieces of glass that exploit light's wavefront to perform image <https://hackaday.com/2019/07/16/neural-network-in-glass-requires-no-power-reco gnizes-numbers/> <https://www.osapublishing.org/prj/abstract.cfm?uri=prj-7-8-> Neural Network in Glass Requires No Power, Recognizes Numbers (hackaday.com). 5 points by hn23 7 months ago | hide | past | web | favorite | 1 comment Neural Network In Glass Requires No Power, Recognizes Numbers [img] We've all come to terms with a neural network doing jobs such as The setup allows the glass, like an ANN, to be “trained” until it has the ... such as biometric security locks requiring zero power input. Training a neural net. In the training of a typical deep-learning ANN architecture, an input is passed into a ... numerals to a specific output port corresponding to that number.. Embed Tweet. "Neural Network In Glass Requires No Power, Recognizes Numbers": ... Paper: " Nanophotonic media for artificial neural Amazing smart glass can recognize numbers, no added tech required ... things) without needing any sensors, circuits, or even power sources to do so. ... to the neural network and consequently making the digital aspect of the Scientist have created an AI glass that can recognize images without any need for sensors, circuits, or even a power source. ... When the team then wrote down a number, the light reflecting off the ... “The wave dynamics of light propagation provide a new way to perform analog artificial neural computing.” Glass identifies faces at the speed of light with zero power ... I am happy to see it today; it knows who I am and will let me inside — no password or passcodes. ... Deep learning however requires nonlinear activation — there must be ... constant of the medium — not a fictitious number in a virtual neuron.

So, there's apparently a whole research field of optical neural computing. Scientists were now able to 'burn' a (pre-)trained neural net into a Neural Network In Glass Requires No Power, Recognizes Numbers.. We've all come to terms with a neural network doing jobs such as handwriting ... [R] Neural Network in Glass Requires No Power, Recognizes Numbers.

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