

Subject: (no subject)

Date: Fri, 27 Jul 2001 18:51:37 EDT

From: LogicomDW@aol.com

To: hologram@flash.net

Loren,
Here is a copy of the letter I sent to Gnxpert.

To Whom It May Concern

July 22, 2001

Mundelein, IL

I have reviewed the general technical ideas presented to me by Gnxpert Neural Technologies and find that their approach is novel and likely patentable once reduced to practise. As originally provided, the ideas were difficult to comprehend - due largely to language barriers in the technical wording. Subsequent discussions allowed us to proceed to a better understanding which was enough to write this letter.

The idea of extraordinarily small (eye invisible) electronic light control elements providing the correct light amplitude (light/dark ratio) and phase (wave retardation) adjustment is appealing because it applies to so many current and near term potential applications such as optical data storage and wavelength division multiplexing as used in fiber optical telecom systems. Technical challenges of addressing the near real time calculation of holographic wavefronts are large. The authors also claim to have invented algorithms that reduce the number of required calculations by modeling the properties of neural networks. The algorithms are considered a trade secret and therefore I cannot comment as to their utility since these have not been presented to me.

The first technical challenge for Gnxpert is to demonstrate that an adequate number of functioning addressable elements can be produced such that malfunctioning elements (drop outs, light scatter and diffraction effects) will not affect final image quality. By itself, this is a challenging experiment in physics with extrarordinary outcomes if they succeed. A probability of success is hard to calculate, but as I understand their approach I am unaware of any technical aspects that violate the laws of physics.

Sincerely,

David Wender,
Optical Physicist