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ABSTRACT

AUTO-FOCUSING METHOD AND SYSTEM

A distance measurement system and method for use in the auto-focusing of imaging systems comprises a transmitter for radiating pulses of radio waves, and a plurality of sensors aligned on a plane to receive the pulse signals emitted from the transmitter and reflected by an object in front of said plane. The pulse signals received by the sensors are combined and the combined signal is subjected to an autocorrelation process to identify desired pulses. A delay determining device determines the time between a transmitted pulse and a received pulse in respect of identified desired pulses. The distance between the transmitter and the object is then calculated from the determined delay time.

(fig. 3)