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(54) Title: HIGH SPEED DIGITAL VIDEO SERIAL LINK

(57) Abstract

A system for bi-directional digital serial communication and control of remote units including video cameras and input/output devices in machine vision systems. The communication system includes a main processor, communication hubs and remote units. The system is capable of monitoring and controlling the remote units in real-time while receiving video data images from the remote video cameras. Digital signals are transmitted in two different protocols; one for data communications, and one for control communications.

