

Abstract:

Sensor apparatus, production method and detection apparatus

What is proposed is a sensor apparatus (1), in particular a TOF and/or CCD sensor apparatus for a 3-D camera sensor, which comprises at least one analog and one digital circuit component and an analog/digital converter (8) for converting analog signals of the analog circuit component into digital signals for the digital circuit component (2), and vice versa, wherein the analog circuit component and the digital circuit component in each case comprise at least one module for electronically implementing a function, and wherein one of the modules of the analog circuit component is embodied as a sensor device (3) for detecting optical radiation and one of the modules of the digital circuit component is embodied as a signal processing device for processing digital signals. In order to enable improved integration into application-based sensor devices, the circuit components including the analog/digital converter are integrated as an integrated circuit in a chip and the chip is manufactured as a semiconductor structure using 1-poly technology.

(Figure 1)