

# Poly-Ge/poly-CdSe dunne-filmcircuits voor op glas geïntegreerde aansturing van vlakke beeldschermen

## Poly-Ge/poly-CdSe thin-film circuits for on-glass integrated driving of flat-panel displays

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have been published. [Note : it is almost impossible to summarize this discussion any further, because it is already very compact. Therefore I refer to the paper I have presented on the 1st CdSe workshop, which was in fact the base for this chapter.]

Morin et al., 1981 .....	45
<i>Oldest poly-Si driver circuit. Typical scanner. Uses memory capacitor for each column. Prone to image bending. As far as I know it was never realised.</i>	
Malmberg et al., 1986 .....	47
<i>MiniGraphics displays. Typical commutator. Analogue driver, analogue grey levels. Driver can be used for fault location. Uses CdSe as semiconductor. Was realised and works.</i>	
Tizabi et al., 1986 .....	47
<i>First CTFT driver using CdSe (and Ge). Uses sample-and-hold modules in column driver. Disadvantage is hysteresis in buffer characteristics, which limits number of grey levels. Very low number of TFT's. Row driver probably not powerful enough to prevent image bending. I suspect the circuit was never realised.</i>	
De Rycke et al., 1988 .....	49
<i>SLB with CdSe. Clocks up to 2 MHz. Digital line memory. Needs parallelism for high resolution.</i>	
Ohwada et al., 1988 .....	51
<i>Commutator with 4 grey levels. TFT's only used as switches. Lots of cross-overs in column driver. Powerful but complicated row drivers.</i>	
Matsueda et al., 1989 .....	51
<i>Hybrid scanner-commutator. 8-fold parallelism. Extremely redundant design (all pixels addressed via 2 totally independent ways). Driver circuit can be used for fault detection.</i>	
Emoto et al., 1989 .....	53
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