

SIGNAL-PROCESSING CCDs

	Device no.	No. of stages	Operating frequency	Remarks	Applications
Analog delay line	TH 7751B	2 x 512	100 kHz to 20 MHz	Independent registers for parallel, series and multiplex operation	Compression Expansion Delay
Transversal filter	TH 7754* (TH X32502)	4 x 64	1 kHz to 5 MHz	Programmable weighting 0, + 1	Matched-filter signal detection Matched filtering
Matched filters and complex convolvers	TH 7755* (TH X32503)	64	5 kHz to 5 MHz	Programmed weighting	CZT convolution Pulse compression

LINEAR X-RAY SENSITIVE DEVICES

	Device no.	No. of stages	Element dimensions	Quantum efficiency	Sensitivity	Applications
Détektor : - Hybrid circuit - Photodiodes plus scintillator	TH X1454	720	1,5 x 0,8 mm 0.8 mm pitch	72 %	2 mV/ μ R	
	TH X1460*	480	3 x 1.6 mm 1.6 mm pitch	72 %	2 mV/ μ R	Industrial non-destructive testing
Détektor plus processing electronics	TH X1461	480	3 x 1.6 mm 1.6 mm pitch	72 %	2 mV/ μ R	

* Available early 1984.

+ Available end 1984.

FIBER-OPTICALLY (FO) COUPLED CCD IMAGE SENSORS

Linear Sensors	Device no.	No. of photoelements	Modulation losses (Nyquist)	Loss in response due to FO	Applications
	TH 7801-CD-FO	1728	25 %	\approx 30 %	LII coupling Deposit of UV or X sensitive layers
Area Sensors :	TH 7851-CD-FO	288 x 208 (TV)	10 %	\approx 30 %	
- Dimensions (excluding pins):	TH 7852-CD-FO	288 x 208 (TV)	10 %	\approx 30 %	
ϕ 59 mm, 7 mm thick	TH 7861-CD-FO	576 x 384 (TV)	10 %	\approx 30 %	
	TH 7862-CD-FO	576 x 384 (TV)	10 %	\approx 30 %	
	TH 7881-CD-FO	288 x 208	10 %	\approx 30 %	
	TH 7882-CD-FO	576 x 384	10 %	\approx 30 %	

SOLID STATE LOW-LIGHT-LEVEL DEVICES

	Device no.	No. of photo-éléments	Response uniformity	Resolution	Constitution	Applications
Linear Image Sensors	TH 9701-CD-04A	1728	\pm 25 %	3 % modulation at 26 lp/mm	TH 7801-CD-FO + TH 9304A (LII)	Night viewing
Area Image Sensors	TH 9761-CD-04A	576 x 384	\pm 7 %	3 % modulation at 22 lp/mm	TH 7861-CD-FO + TH 9304A (LII)	Industrial non-destructive testing (X-ray)

) pins) : ϕ 70 mm, length 86 mm.