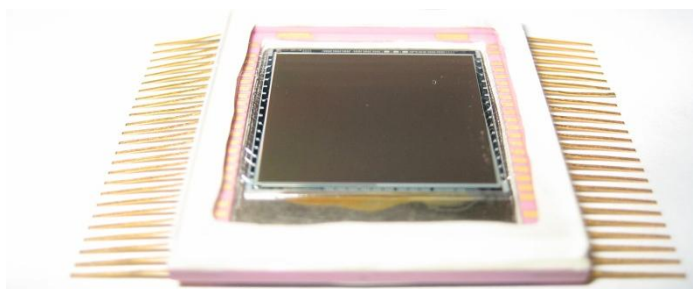


CCD "QUADRO-T"

CCD "Quadro-T" is a frame transfer photosensitive device with bulk n-channel on n-type substrate.

The device can go with supply-demand balance and fiber-optic input.

CCD has accumulation and storage sections.



The total number of pixels in output register is 1568. The first sixteen define dark signal level. Reading out pixels across the register in both directions is permitted.

Each section comprises 768 lines and 1536 pixels per line.

The device is intended for operation in TV equipment with continuous and pulse illumination, image transformation and processing systems as well as measurement instruments.

Advantages:

- Wide spectral range
- Low dark current
- Operation at high frequency mode at register frequency up to 40.0 MHz.
- Operation at low frequency mode at storage time up to 10 s.

SPECIFICATIONS

Number of pixels, (HxV)	1536×1536
Photosensitive area size, mm	16.898×16.898
Pixel size, μm	11×11
Dimensions (with contacts), mm	32.0×42.5×5.0
Mass, g	10
Image format	1:1; 1:2
Full frame, lines	1536
Spectral response, nm	400÷1100

Saturation voltage, V	1.0
Spectral sensitivity ($\lambda=670$ nm), V/ $\mu\text{m J/cm}^2$	5
Mean dark signal, mV/s	30
Output signal mean square nonuniformity, %	2
Noise, \bar{e}	≤ 20
Dynamic range	8000
Modulation depth at space frequency $f_N/2$ across horizontal and vertical, %	55
Transfer inefficiency	$1 \cdot 10^{-5}$

SOCKET CONNECTIONS

