

**It's no trick...
it's a vision system**

VisiCube

The VisiCube is an extremely fast intelligent compact camera and one of the fastest intelligent cameras all over with a computational power of 3200 MIPS rivalling a 2.6 GHz Pentium. It has 32 MB DRAM, 4 MB Flash EPROM for program and data storage. It can acquire full frame 640 x 480 pixel at 32 frames per second!

The scan lighting consists of eight integrated LEDs (6x white light, 2x red lights). The integrated lens which is directly adjustable at the sensor is available with a focal length from 6mm or 12mm. A robust aluminum and plastic housing provides IP65/67 protection, making VisiCube units suitable for rugged environments.

The own internal operating system "VCRT" of the VisiCube is multitasking. This means that multiple processes can be executed in parallel. The VisiCube has a video output onto a PC via 100MBit Ethernet interface.

The VisiCube offers thus an extremely inexpensive entrance into the world of the high performance intelligent cameras.

All Vision Components cameras are built for industrial applications. They are insensitive to shock and vibration, and have multiple I/O lines for direct control of external equipment. For more complex control tasks, they can easily be interfaced to a PLC.



<u>Specifications</u>	VisiCube
Sensor:	1/4", 640 (H) x 480 (V) Pixel
Shutter:	High-speed: up to 36,2 µsec in steps of 62.4 µsec Low-speed: up to 2 sec adjustable integration time
Integration:	Progressive Scan
Frame rate:	32 fps
Acquisition:	Asynchronous, program controlled or external trigger, full frame
A/D conversion:	1 x 12.5 MHz / 10 Bit
Processor:	3200 MIPS, 400 MHz Texas Instruments TMS320C64xx
Video output:	100 Mbit, via Ethernet on PC
Image/Data memory:	32 MBytes SDRAM
Flash memory:	4 MBytes Flash EPROM (non volatile memory) for programs and data, programmable in the system
Dig. I/O's:	2 inputs / 4 outputs optically decoupled 24V, outputs 4 x 400mA
Interfaces:	Ethernet 100 MBit TCP/IP and RS422
Supply voltage:	24V +/-20% DC, max. 200 mA
Electrical connections:	Plug M12, 8 poles, ethernet M12, 8 poles, process M12, 5 poles
Protective system	IP 65/67
Dimensions:	65 x 45 x 45 mm, approx. 170 g

(No liability is assumed for possible errors!)



**adept
electronic solutions**

**The Machine Vision and
Imaging Specialists**

Perth: +61 (08) 9242 5411
Sydney: +61 (02) 9979 2599
Melbourne: +61 (03) 9555 5621
Email: adept@adept.net.au
Web: <http://www.adept.net.au>