

# AVT PIKE F-505B / F-505C

## AVT PIKE F-505B / F-505C fiber



### Fast – smart – perfect: 1394b goes PIKE.

The AVT PIKE camera family is equipped with an IEEE 1394b (S800) interface, as well as high-quality CCD sensors and comes in a surprising variety of different versions for the most demanding applications. The PIKE offers a selection of six different high-quality sensors (b/w and color) with high sensitivity and true-to-life color reproduction. To meet the highest requirements in the industry, the PIKE comes optionally in a version with a copper daisy chain connection or 1 x copper combined with 1 x GOF connector (2 x optical fiber on LCLC). This not only saves costs in multi-camera operations but also makes it possible to use up to 500 meters of cable. The direct fiber technology of the PIKE in the GOF version also provides for equalization of potential and EMC independence. The high data rates of the PIKE (max. 62.5 MByte/s) and a huge number of smart features ensure an extraordinary performance in PC-based image processing. The integrated image pre-processing of the PIKE not only reduces demands on PC computer power, but also cuts system costs by eliminating the now unnecessary frame grabbers.

#### Highlights

- IEEE 1394b
- 5 megapixel (2452 x 2054)
- Up to 15\* fps (full resolution)
- Progressive scan CCD, monochrome and color
- True partial scan (higher frame rates by smaller AOI)
- Flexible AOI, flexible speed (full Format\_7 support)
- Optocoupled asynchronous image trigger
- Image pre-processing features:
  - Auto controlled gain, exposure, white balance
  - Anti-smear mode
  - Color correction, hue, saturation (only color)
  - Real-time shading correction, progr. LUT
  - 2x/4x/8x binning
  - And lots more ...
- Smart frame grabber features:
  - Image FIFO memory (5 full frames)
  - High SNR mode (up to 16 bit)
  - Single-shot, multi-shot, free-run
- - 2 prog. inputs, 4 prog. outputs, on-board RS-232
  - Sequence mode
  - SIS (secure image signature)
  - And lots more ...
- Industry proven and robust housing
- C-Mount / M39-Mount
- Angled head and customized housings

\* at 11000 bytes per packet

