Electronics Imaged with Reflected Light

Karl E. Deckart
The images on the following pages were provided by renowned German photographer (both micro and macro) Karl E. Deckart. With his reflected light microscopy using differential interference contrast techniques, Karl has been a consistent winner of the RMS Micrograph Competition and the Nikon Small World competition and has collected many prizes and honorable mentions over the years.

Karl, who holds a Master’s degree in Electrical Engineering, has published over 50 articles in photography periodicals and over 2000 images in various media, including calendars, posters, television, and commercial video. His images have been on display or used in printed form in Germany, Greece, India, Japan, and the United States. During his career, Karl has designed and constructed a wide angle medium format camera as well as a hand-held 4 x 5-inch format camera. He has also developed and patented a medium format camera designed specifically for micro/macro photography.

Karl is a member of the German Photography Society (DGPh) and the Royal Microscopical Society.

The following images of chips and wafers were all taken with a NIKON reflected light microscope (OPTIPHOT), with DIC illumination on 6x7 cm roll film. The medium format Mamiya motorized film holder was specially adopted to the microscope by Karl Deckart. The electronic adoption to the exposing control box (NIKON UFX-II) was done by NIKON. Together both adoptions allow Karl, with the push of one button, to first expose and then transport the roll film automatically.

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