

2025 - Dr. Peter G. M. Centen

For pioneering innovations in image sensor technology that transformed electronic cinematography and broadcast imaging. Over a career spanning more than four decades, Dr. Centen played a pivotal role in the industry's transition from CCD to CMOS image sensors, serving as chief architect of the Xensium family that enabled HD, 4K, HDR, and HFR imaging. During the transitions from SD to HD, narrow-screen to widescreen, and film to digital cinematography, his development of Dynamic Pixel Management—a groundbreaking sub-pixel-control technology—allowed a single sensor to support multiple resolutions and aspect ratios, including ultra-wide formats (~2.4:1), without compromise. This innovation, first implemented in the Viper FilmStream camera, eliminated the need for format-specific imaging systems and laid the foundation for today's flexible, high-performance camera designs.

[Camera Origination and Imaging Medal Recipients | Society of Motion Picture & Television Engineers](#)

