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Kappa Product News | April 2020

Benchmark-setting Flight Eye camera series for all aviation applications

Made by experts for aviation professionals: German camera supplier Kappa optronics rounds out its unique range of dedicated aviation cameras, the Flight Eye series. These technologically advanced cameras cover all applications from nearfield area surveillance to pilots' eye in HALE UAV and even in space – superiority in onboard video capture proven in aerospace applications around the globe.

This ITAR-free, aviation-qualified FE camera family with SWaP-C optimized design offers various physical setups and interfaces for integration into aircraft systems. Users can choose between compact or remote head versions. They also decide to go with onboard H.264 compression and dual streaming via GigE (e.g., for airborne mission recording/debriefing) or zero-latency via HD-SDI (e.g., for UAV piloting from the drone control room/sight through HUD). The SE320's design is even qualified for environmental conditions in space applications. International OEMs and MROs have closely accompanied the development of this modularly designed COTS product line, also perfectly suited for retrofit solutions.

One model in the FE family addresses a current hot topic in the aviation industry: light aircraft crash recording (for planes such as Cessna or VTOL air taxis) that complies with NTSB guidelines and current EASA regulation. Here, Kappa's FE 320 comes into play, an optimized solution for crash safety data recording that is fully ED-155/ ED-112 qualified and comes with the required DAL-D design assurance level (in accordance with DO-178/DO-154).

Compliance is key in aviation: This is where Kappa makes the difference with 40 years of camera and vision system experience for anything that drives or flies.

Press web section: <https://www.kappa-optronics.com/en/news.cfm>



Photo 1:

Kappa Benchmark-setting with Flight Eye camera program.

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Kappa optronics - Footer

Cameras and Vision Systems for Anything that Drives or Flies.
Kappa has 40 years of experience with application-specific cameras and vision systems in rugged and certifiable design – in small and mid-sized series.

We offer innovative vision solutions for day and night operations, ensuring maximum performance of higher-level systems. Our solutions are especially suitable for safety-critical applications. We provide on-site consulting, dynamic project management, and a highly experienced development team.

Special signal processing, mechanical modifications and customer-specific interface configuration are all part of the Kappa concept, as are integration of optical components, illumination and video management.

We are leaders in technology. Moreover, we meet all safety requirements on design assurance procedures in hardware and software development, qualification and certification (up to SIL 2/ASIL-B/ DAL-B, ISO 26262, DO-254, DO-160, DO-178, MIL STD 810/704, Nato-Supplier Code C4792).

Your benefits at a glance

Extremely rugged design | High integration capability | ITAR free | Certifiable maximum safety | Vision (sub-) systems, glass-to-glass, board level cameras | Latency-free images | Long-term availability & functional warranty | Day & night vision, 24/7