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EVS-3ch

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QOS is developing an Enhanced Vision System (EVS) that combines image enhancement and synthetic vision elements to assist pilots flying through adverse weather conditions. This system uses a combination of forward-looking infrared and visible sensors for data acquisition. A core function of the system is to enhance and fuse the sensor data in order to increase the information content and quality of the captured imagery. These operations must be performed in real-time for the pilot to use while flying.

Applications

EVS-3ch facilitates precision approaches and safe landings in reduced visibility conditions, including thick fog, smog, heavy rain and snow. EVS's operating bandwidth in short and long IR spectrum to provide clear images of approach and runway lights, runway threshold, buildings, other visual cues, obstructions and aircraft in close proximity. These images normally are undetectable to the pilot's naked eye at night and in bad weather.

Parameters

SWIR channel

Spectral range	0,9...1,7μm
Detector type	InGaAs
Resolution	320x240 (640x480*)
Vertical FOV	25°
Horizontal FOV	34°

LWIR channel

Spectral range	8...14μm
Detector type	Uncooled FPA
Resolution	320x240 (640x480*)
Vertical FOV	29°
Horizontal FOV	39°

Day light channel

Spectral range	0,4...0,8μm
Detector type	CCD
Resolution	1024x768
Vertical FOV	25°
Horizontal FOV	34°

Electrical parameters

Output Video	RS-170, digital 14 bits over fiber optics
Power Supply	28VDC, 4.5A
Environmental Conditions	-40°C...+45°C
Dimensions, mm	220x140x93
Weight, kg	3,6

