CAMSIGHT FB

Fusion Block OEM Camera

- 3 viewing modes: thermal, visible, smart fusion
- Ultra low SWaP (Size, Weight and Power)
- Low-latency, freeze-free video output
- Designed and manufactured in France

bertin winlight
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CAMSIGHT FB
ULTRA LOW SWAP FUSION BLOCK CAMERA

CamSight FB (Fusion Block) is part of the **CamSight range of digital core cameras** for integrators and Original Equipment Manufacturer (OEM), **designed and manufactured in France** by Bertin Technologies.

Equipped with two high-performance sensors, CamSight FB is an **all-in-one, low SWaP solution with 3 viewing modes (visible, thermal and smart fusion)** that can be integrated into any advanced observation and surveillance optronic system, or into a Plug&Play device for end-users. Based on Bertin Technologies's unique, patented fusion algorithm, it delivers **freeze-free, low-latency videos.**

With its ergonomic design, CamSight FB is particularly **suited for constrained environments** such as Unmanned Aerial Vehicles (UAVs), binocular or monocular thermal and visible viewing systems.

CamSight FB offers **cutting-edge image processing technology** that combines visible and thermal channels in real time through an intelligent fusion mode. By analyzing pixel frequency and merging the most relevant pixels, CamSight FB creates a final image that maximizes the strengths of both channels. This eliminates the complexity of integrating and synchronizing visible and thermal channels, and also addresses issues related to aspect ratio and resolution differences.

Capability

CamSight FB is available in different horizontal fields of view to fulfill most applications:

- 60° - Driver Vision Enhancement (DVE).
- 30° - UAV and standard surveillance.
- 18° - High quality surveillance on vision enhancers or turrets.
- 11° - Long range observation.

OEM

PLUG & PLAY

THERMAL IMAGE

VISIBLE IMAGE

SMART FUSION

Technical features

Thermal sensor LYNRED ATTO640D-02

Resolution	640 x 480 @ 12µm
Bandwith	LWIR (8-12µm)
HFOV (°)	30° (11° / 18° / 60° on request)
Sensitivity	NETD < 40mK @ F# 1/1.0 without lens

Visible sensor PYXALIS HDPYX 230-G

Resolution	1944 x 1204 @ 3.2µm
Bandwidth	VISIBLE + NIR (400-850nm)
HFOV (°)	45° (14° / 22° / 75° on request)

CamSight FB 30°

SWaP	Size: 63 x 24 x 42 mm Weight: 80g Power: 2,5W @ 25Hz
Video outputs	3G-SDI / Parallel Bus / MIPI / USB / GigE Vision
Time to image	< 2sec