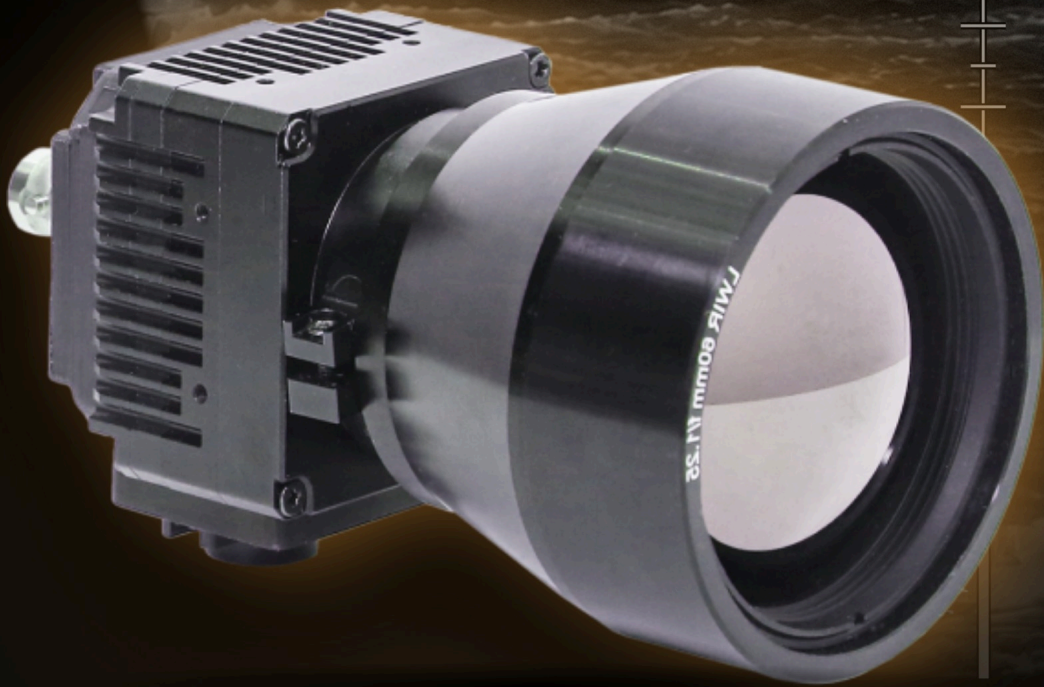


THE THERMAL CAMERA CORE

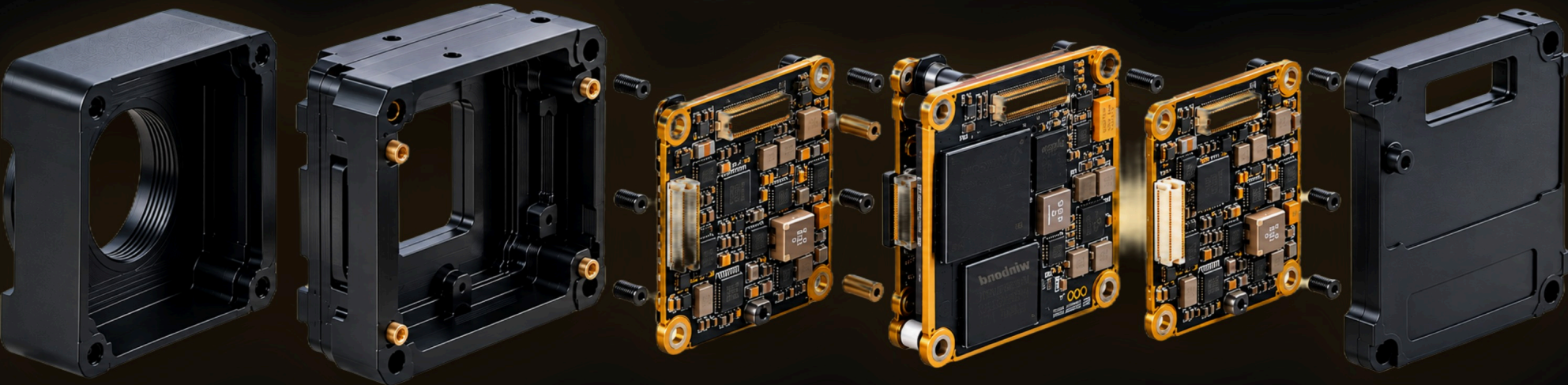
FX-Core

Embedded thermal vision



ASSEMBLED
Sensor, electronics and housing in one module, ready to drop into a camera. 640×480

02 · WHAT'S INSIDE



03 · HEAT IN, VIDEO OUT

Senses heat

Uncooled Microbolometer

640×480 pixels that read infrared heat

Reads the signal

Analog Front-End · FX-AFE

Conditions the detector output and converts it to digital

Makes the picture

Image Signal Processor · FX-ISP

Turns raw data into a clean thermal video stream

Plugs in anywhere

Device Interface Board · FX-DIB

MIPI CSI, USB or DisplayPort, swapped per application

04 · INSIDE THE IMAGE SIGNAL PROCESSOR

FIELDX.AI

01
Frame Capture

02
Non-Uniformity Correction

03
Bad-Pixel Correction

04
Tone Mapping

05
Detail Enhance

06
Image Overlay

07
Color Palette