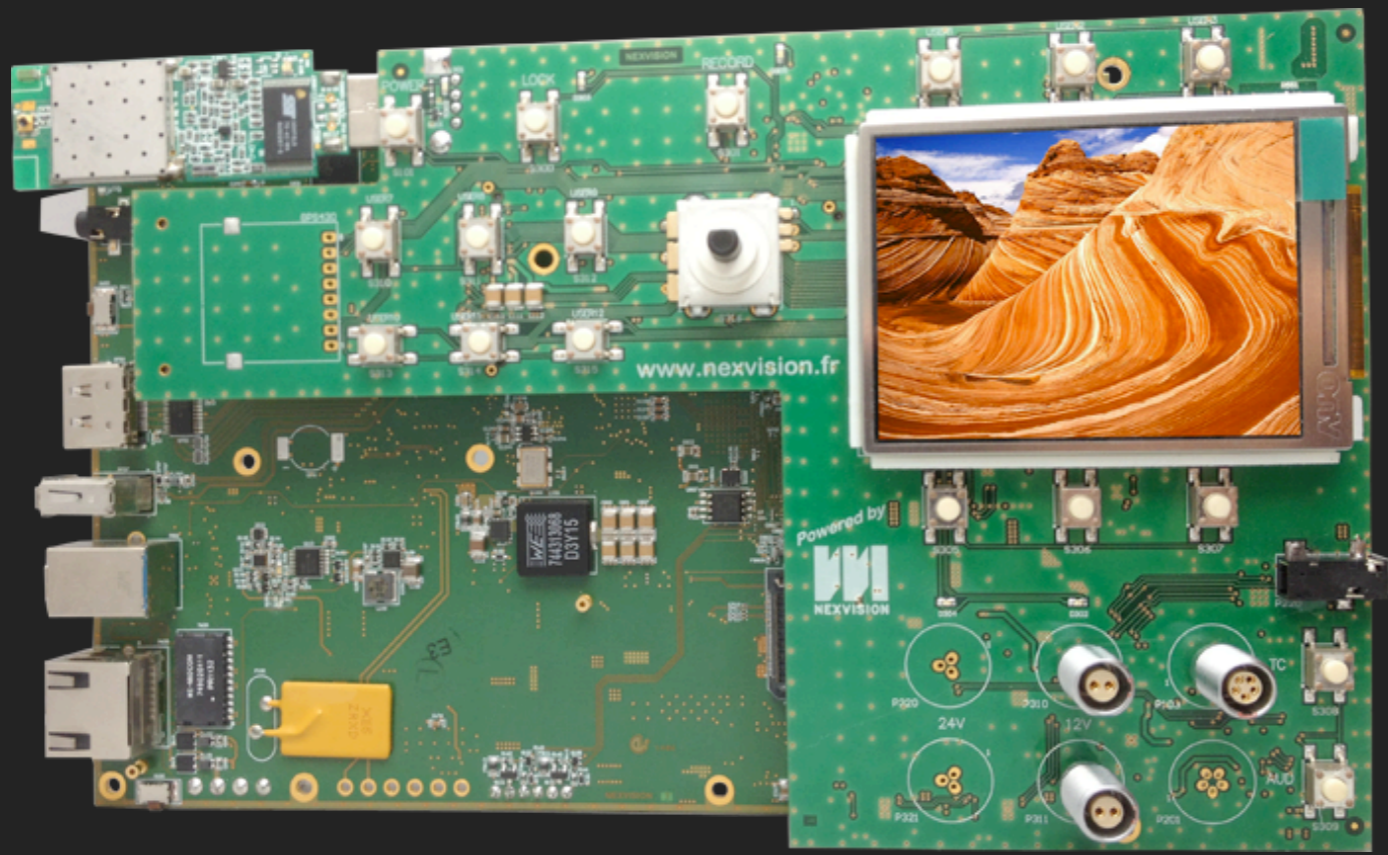


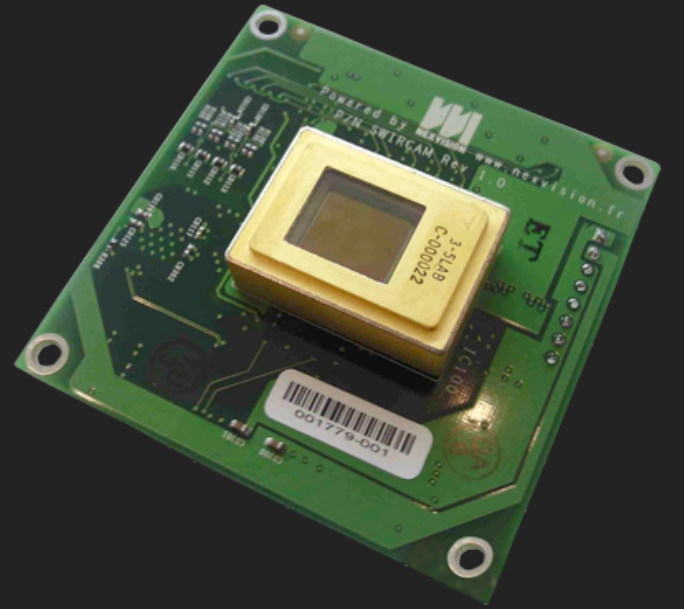
CAM MASTER



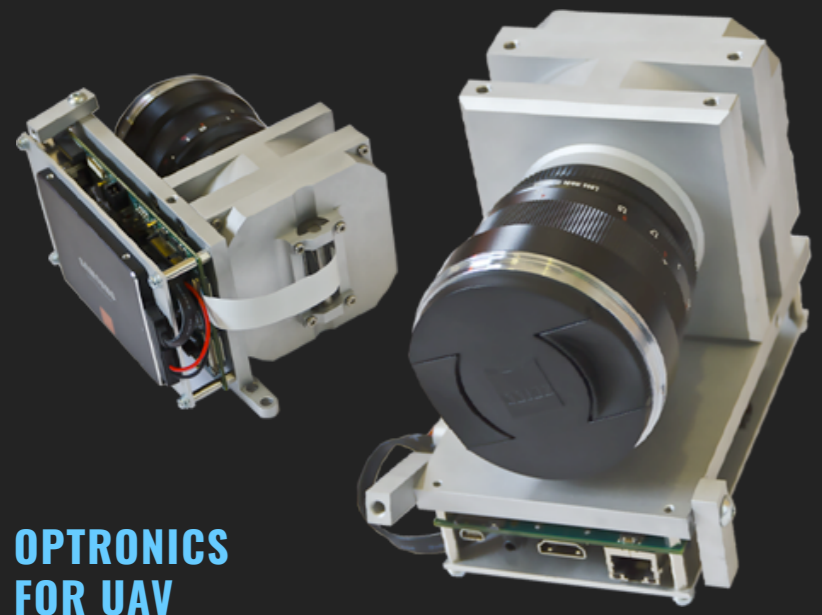
CAM SMOOV+



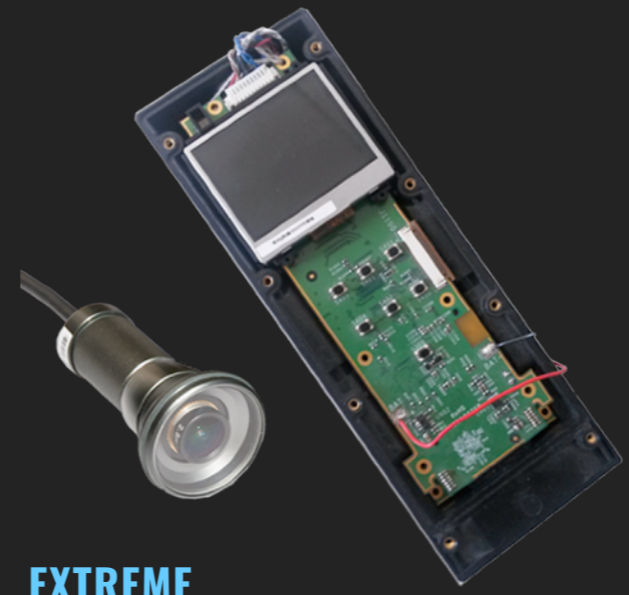
IMA SWIR



OPTRONICS FOR UAV



EXTREME SPORT VIDEO CAMERA



**EXPERT IN OPTRONIC SYSTEM
REFERENCE DESIGN**



**NEXVISION
CORPORATE
PRESENTATION**

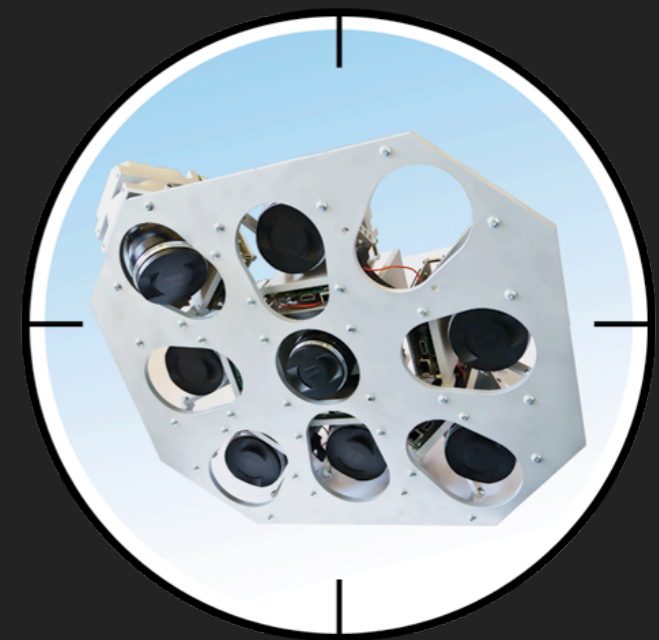


**NEXVISION IS AN ELECTRONIC DESIGN
COMPANY.**

WE ARE EXPERT IN OPTRONIC SYSTEMS.



WE DESIGN OPTRONICS FOR CUTTING-EDGE VISION SYSTEMS



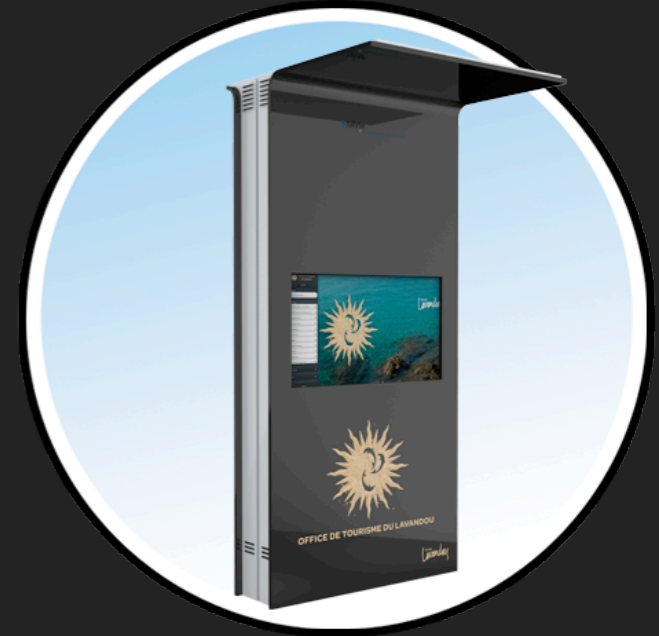
SECURITY
DEFENSE
AEROSPACE





WE DESIGN OPTRONICS FOR CUTTING-EDGE VISION SYSTEMS

**SMART HOME
SMART
CITIES**



**CINEMA
MEDIA**





WE DESIGN OPTRONICS FOR CUTTING-EDGE VISION SYSTEMS

**INDUSTRIAL
INSPECTION**



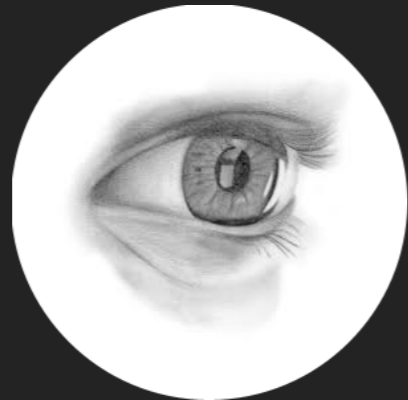


WE DESIGN VISION SYSTEMS ELECTRONIC ON EACH BAND.

UV



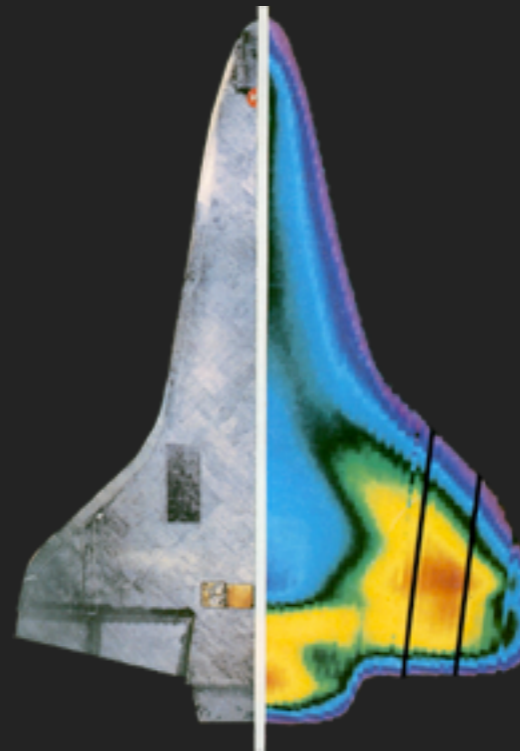
VISIBLE



SWIR



**LWIR/
THERMAL**



TERAHERTZ



NIGHT





WE WORK FOR ANY CUSTOMER THAT NEEDS COMPLEX VISION SYSTEM

SECURITY
/DEFENSE



AEROSPACE



SMART
CITIES



INDUSTRY



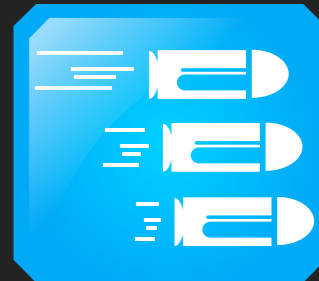
CINEMA
/MEDIA



TRANSPORT



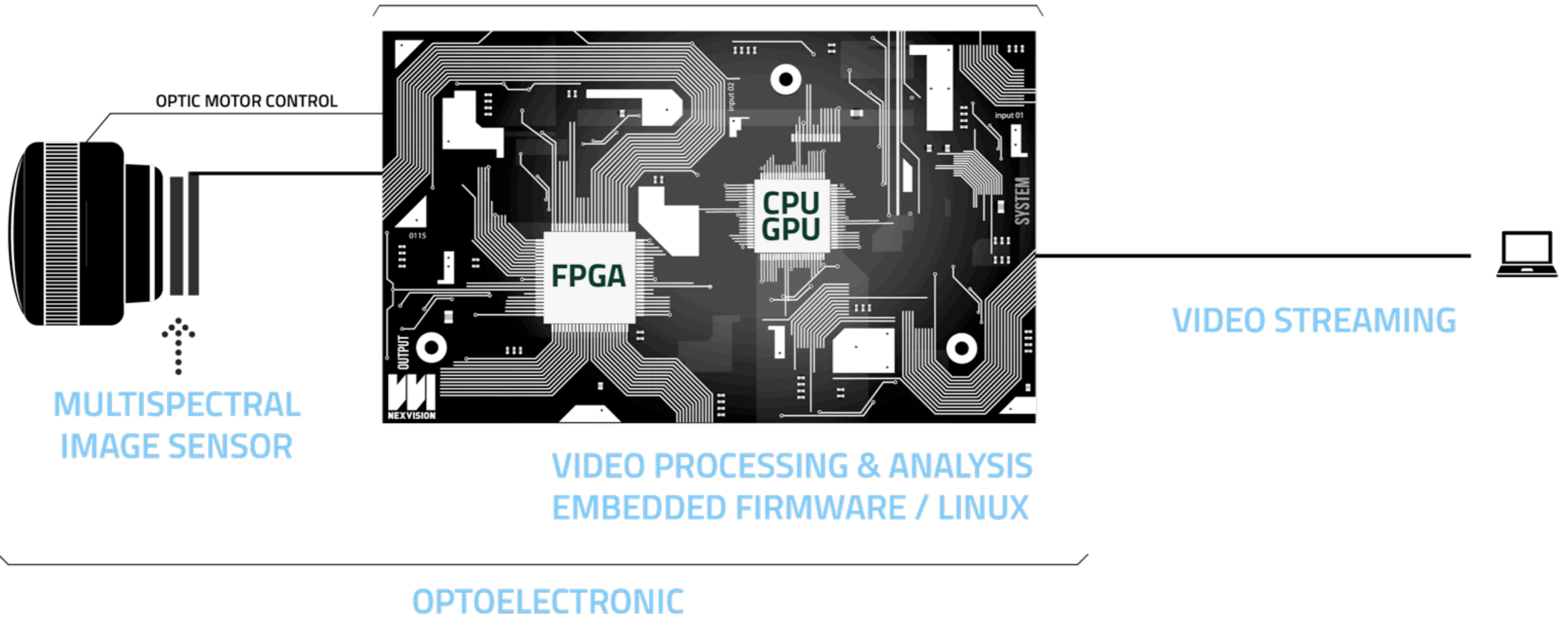
SPORT



WE MASTER THE ENTIRE VISION SYSTEM ARCHITECTURE

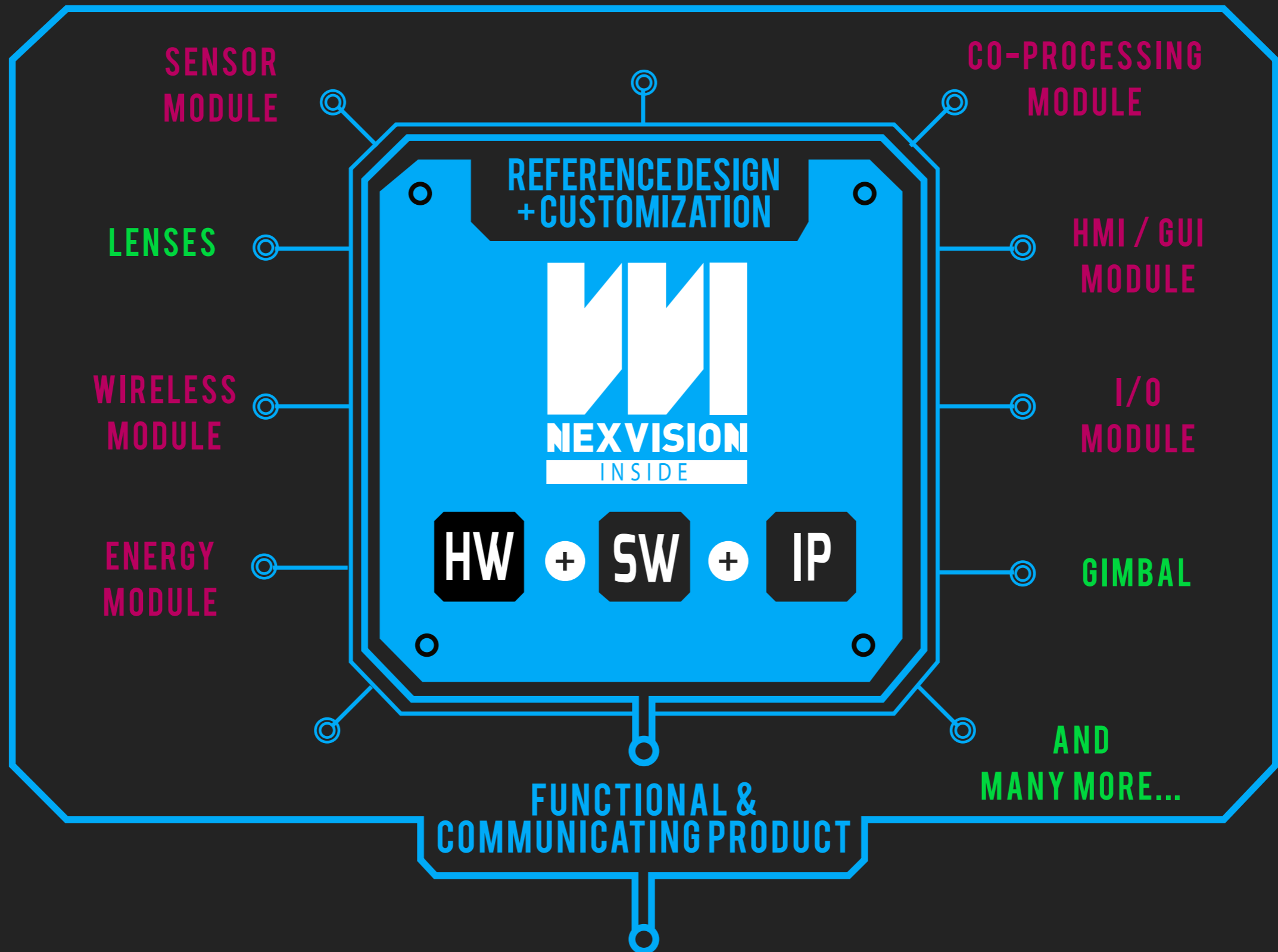
VISION SYSTEM ARCHITECTURE

VIDEO ELECTRONICS HW





WE CHOOSE THE BEST MODULES TO DESIGN HIGH-END PRODUCTS



OUR POWERFUL HW MODULAR ARCHITECTURE



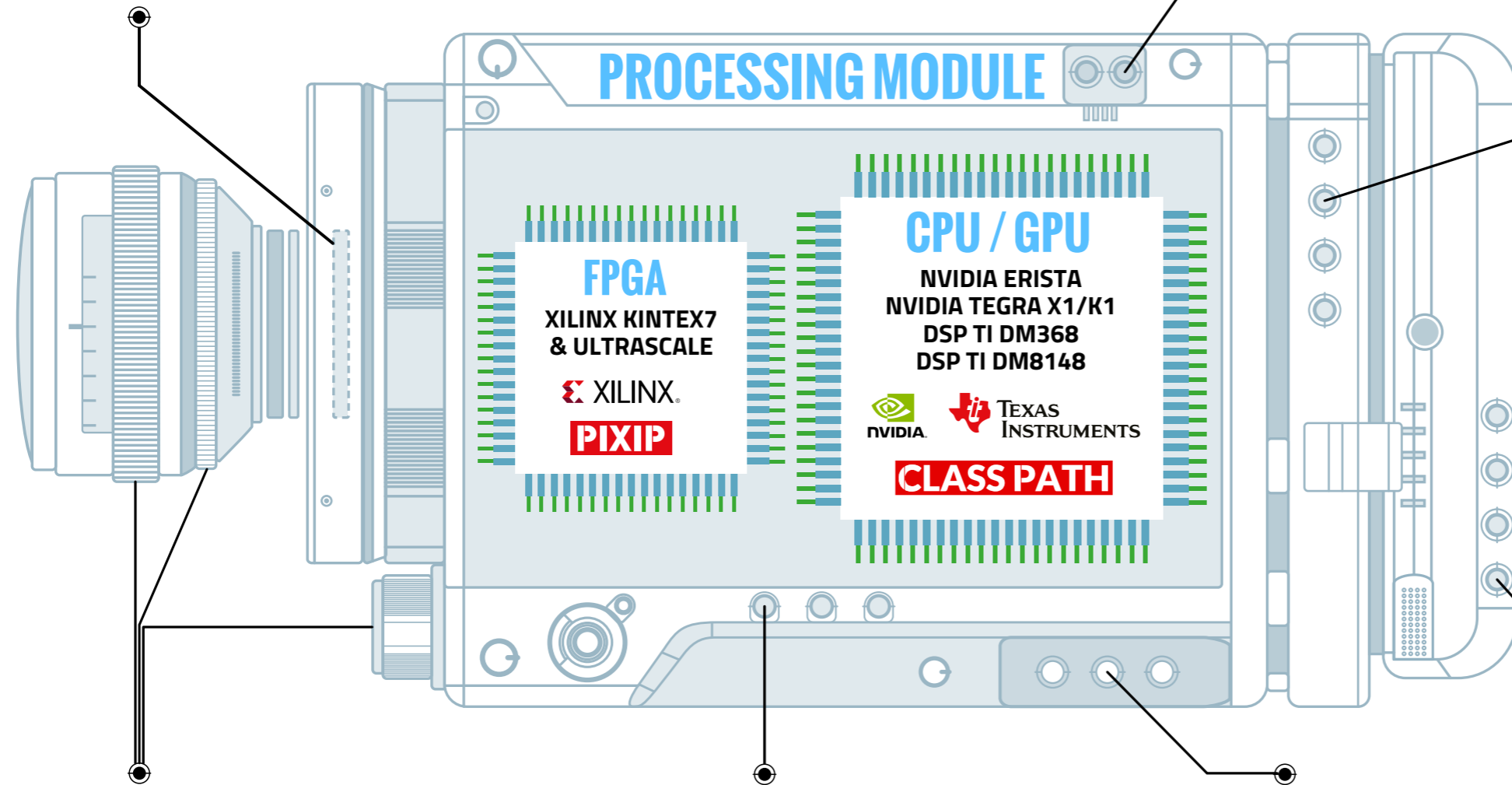
IMAGE SENSOR MODULE

- UV2M
- VISIBLE.....FULLHD 4M 12M 17M 20M HDR NIGHT....1,3M 2M
- SWIR.....480p
- LWIR/THERMAL...480p 1080p
- TERAHERTZ.....480p

HMI MODULE

- DISPLAY LCD / LED
AMOLED / E-ink
- μDISPLAY MICROOLED
- TOUCHLESS POINTER
- SPEAKER / BUZZER

PROCESSING MODULE



I/O MODULE

- Composite / RGB - Display
- HDMI - Display
- SDI (3G-HD-SD) IN/OUT - Display/Com
- CoaXpress IN/OUT - Com
- Ethernet - Com
- RS232 / RS485 / CAN - Com
- PLC - Com
- PCIe - Com
- USB 2.0 & 3.0 - Com / Storage
- (μ)SD / SDHC / MMC - Storage
- SATA/NVMe/SSD - Storage
- I/O
- Audio IN/OUT

CONTROL MODULE

- OPTIC MOTOR
- ENCODER
- PULSE LED PROJECTOR

ENVIRONMENT SENSOR MODULE

- GPS (GEOLOC)
- 9AXIS - INERTIAL
- PRESSURE
- MICROPHONE





























WIRELESS MODULE

- ZIGBEE™
- BLUETOOTH™
- WIFI™
- 3G™/4G™

ENERGY MODULE

- BATTERY
- BATTERY CHARGER
- SOLAR PANEL

BASE MODULES

-  CONTAINERS
-  COMPRESSION
-  CONFIGURATION
-  CRYPTOGRAPHIC PRIMITIVES
 - > Assymmetric algorithms
 - > Symmetric algorithms
 - > Random
-  DATABASE
-  DEBUGGING
-  ENCODING
-  FILE
-  FILE FORMAT
-  HARDWARE
-  HTML
-  IMAGE
-  INTERNATIONAL
-  LICENSING
-  LOGGER
-  MULTITHREADING
-  NETWORK
 - > Common primitives
 - > Clients
 - > Servers
-  SPACE PARTITIONNING
-  STACKS
-  STREAMING
-  STREAMS
-  "abc" STRINGS
-  TEST
-  TIME & DATE
-  TREES
-  TYPES
-  UTILS
-  XML

SEE FUNCTIONS DETAILS



SETUP



NVR

NETWORK VIDEO RECORDER



RMC/VMS

REMOTE MANAGEMENT CENTER
VIDEO MANAGEMENT SYSTEM

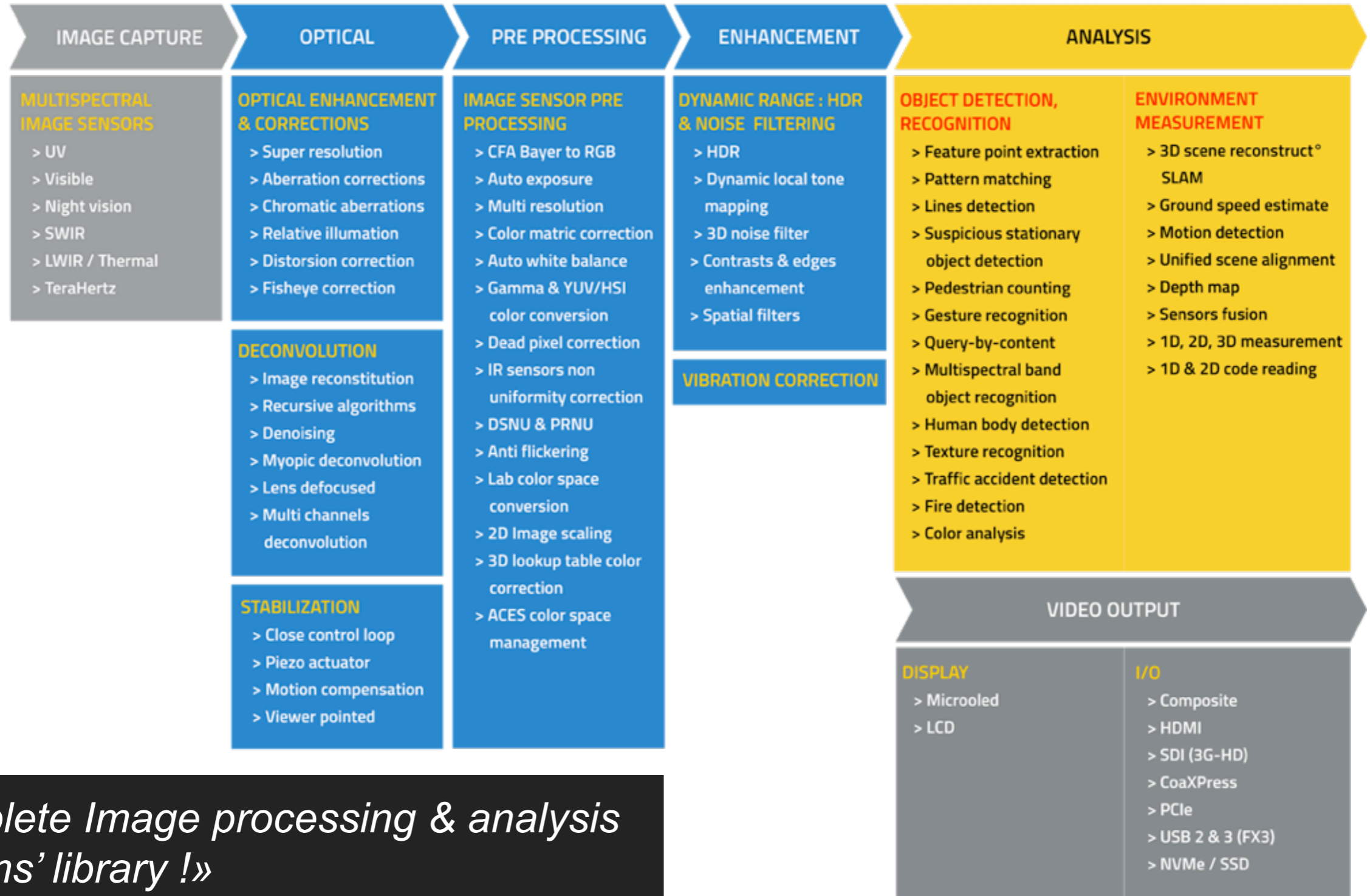


AUTOMATION





- > Helicopter
- > Yellow
- > x pixels/s
- > ...



«A complete Image processing & analysis algorithms' library !»

Object detection, recognition

- ▶ Feature points extraction and analysis
- ▶ Pattern matching, Shape recognition and tracking
- ▶ Power lines, wires and cables detection (passive multispectral imagery)
- ▶ Suspicious stationary object detection
- ▶ Multi-modal gesture recognition
- ▶ Content based retrieval & Query-by-content
- ▶ Multispectral band object recognition (Visible/SWIR/LWIR)
- ▶ Human body detection
- ▶ Texture recognition
- ▶ Traffic accident detection, behavior & flow control
- ▶ Fire detection
- ▶ Color analysis

Environment measurement

- ▶ 3D scene reconstruction, simultaneous local and mapping (SLAM)
- ▶ Absolute ground speed estimate
- ▶ Motion detection (*)
- ▶ Registration - unified scene alignment – translation & scaled perspective
- ▶ Depth map
- ▶ Sensors fusion (GIS positioning, accelero-gyro, ultrasound, radar...)
- ▶ 1D, 2D and 3D measurements



A BETTER TTM FOR YOU !

**THANKS TO OUR POWERFUL
ELECTRONIC MODULAR ARCHITECTURE
YOU CAN SAVE 30% TO 50% IN DEVELOPMENT
TIME.**

**CLASSIC
PROCESS**

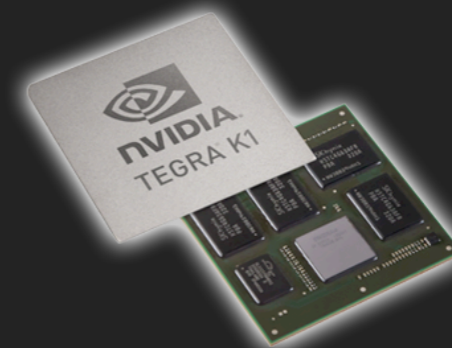


**THANKS TO
OUR MODULES**



OUR STRENGTHS

- ▶ A high level of expertise in vision system architecture
- ▶ A fully featured image processing algorithms library
- ▶ Several «ready to customise» HW, SW & IP solutions
- ▶ With our modular technologies, we are able to quickly design any vision system
- ▶ We control all aspects of aeronautical product development (processes & standards as ADB100)
- ▶ NEXVISION is «early adopter» of TI & NVIDIA processors



OUR SERVICES



- ▶ Study & Design delivery
- ▶ OEM & Reference Design
- ▶ Customization
- ▶ Licensing & Joint program
- ▶ System integrator

CUSTOMERS

SECURITY
/DEFENSE

THALES



AEROSPAC
E



INDUSTRY

Honeywell

ZEISS



PHOTONIS

III-V lab

CINEMA
/MEDIA
/SPORT



KTALYSE

TRANSPOR
T



TECHNICAL PARTNERS



COMPETITIVENESS CLUSTERS & LABORATORIES / FINANCIAL PARTNERS



KEY FIGURES (main office)

REVENUE

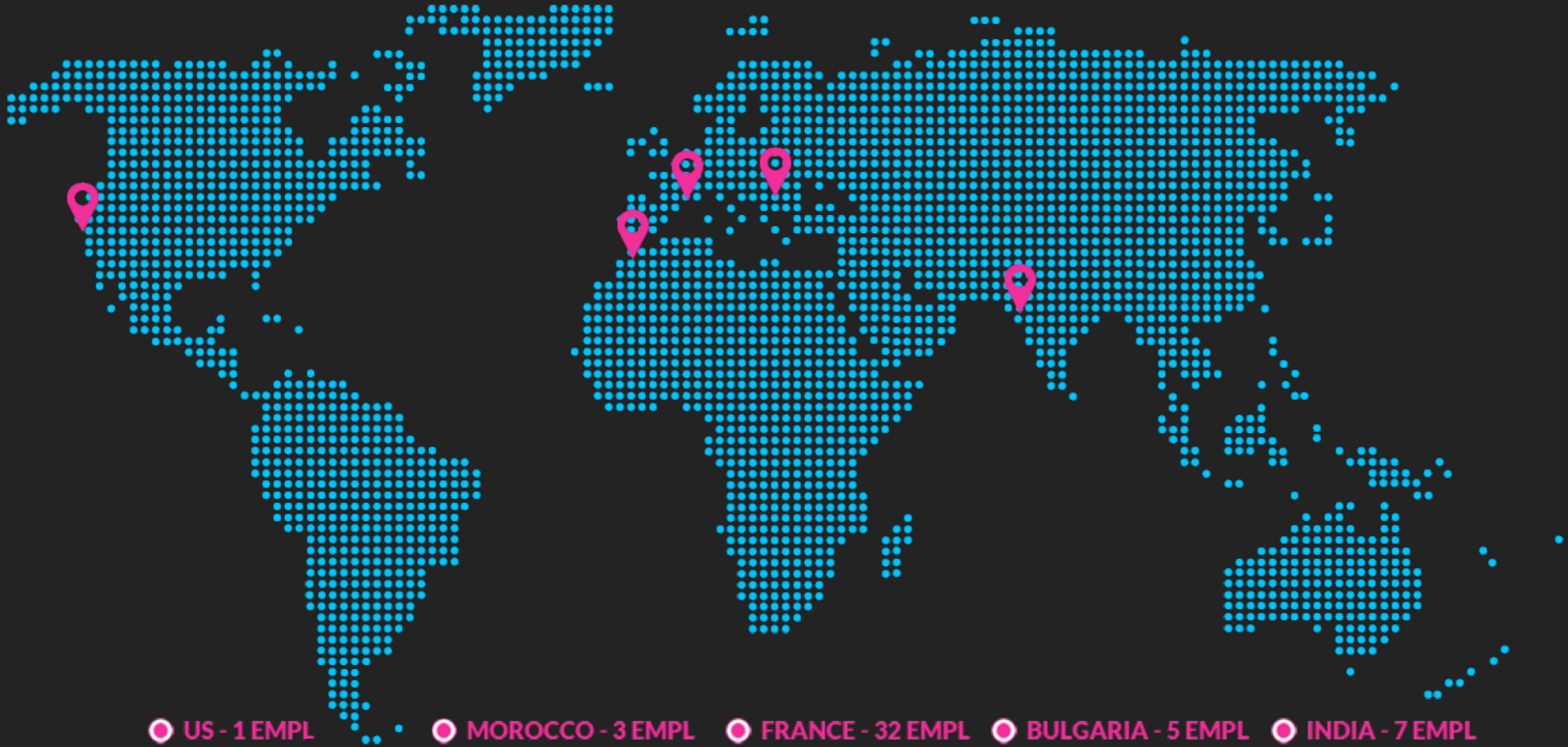
2009	188k€
2010	650k€
2011	1400k€
2012	1900k€
2013	1400k€
2014 (forecast)	3100k€

NUMBER OF EMPLOYEES

2010	9
2011	9
2012	12
2013	12
2014 (forecast)	32



NEX IN THE WORLD



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[nexvision_](#)



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WMI
NEXVISION