



# **DRACO** *systems*

PARTNERS IN TECHNOLOGY

GENERAL OVERVIEW

DRACO as **electronic engineering company** specialized in **made-to-measure solutions** in signal, image and video processing as well as in systems and sensor control, collaborate with his customers from **specs definition, design, development and prototype phases to pilot test, integration and manufacturing.**

Our team with more than **15 years of experience** in the sector and more than **50 national and international customers**, are the proof of our success.

Our aim is to become your

**PARTNERS IN TECHNOLOGY**

## Legal Status

Limited Society

Private Capital

3 Co-Founders ( university colleagues)

Business set up in January 2004



## Located

17 Km north of Barcelona

25 Km from Barcelona Airport

60 Km from Girona Airport

**DRACO'S ENGINEERING SERVICES IN:****Hardware design**

- Schematics
- PCB design
- Special designs: multi-processor, high density components, high-speed buses, special encapsulations, cost-effective, ...

**FPGA design**

- VHDL

**Software design**

- Firmware, kernel, RFS, bootloader and Board Support Packages for RTOS
- ARM7/9/CORTEX A8 applications
- DSP applications
- Motion control applications
- Porting applications to other platforms
- Driver development to support new devices
- Image, video and audio: codecs, algorithms, streaming, synchronization,...
- Communication interfaces: Ethernet, WiFi 2.4 and 5 GHz, zigbee, RS232, RS485, CAN, Bluetooth, Bluetooth Low Energy, ANT+, ...

**Industrialization**

- Testing CE, FCC, UL
- Made-to-measure testing platforms

**Production**

- Small and mass production management at both nationally and internationally
- Prototypes
- Parts selection for cost saving and replace parts for obsolescence and allocation

Our technical team has an strong personality and independence, enabling us to have the flexibility to **listen to our customers needs** and provide them with turnkey solutions faster. Like this we have **built customers loyalty**.

### R+D+I team skill:

- Electronic Engineers
- Telecommunication Engineer
- Multimedia Engineer
- Software Engineers
- PhD in Image Processing



DRACO has **strong alliances** with worldwide leading technology companies as **Texas Instruments, Microchip, Freescale, Telit, ANT, Object Video, and Adaptive Digital.**



We have developed successful solutions for a number of market sector such as:



... and more

## VIDEO RECORDER PLATFORM FOR CINEMA AND ADVERTISEMENT

Capture, Edit and Stream video in a short time



## INFOTAINMENT SYSTEM FOR TRAINS

Digital signage solution for on-board applications in trains, buses, etc.



## IP SCREEN CONTROLLER

Visualize videos, images and text easily and without maintenance





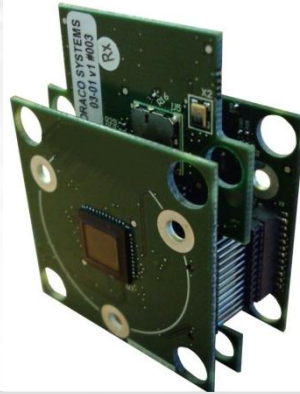
### BIOMETRIC SYSTEM

Biometric device for access controls based on fingerprints ARM processor running Linux



### WIRELESS CAMERA

Small form factor allows to encode HD H264 and send it via WiFi or Ethernet at low latency



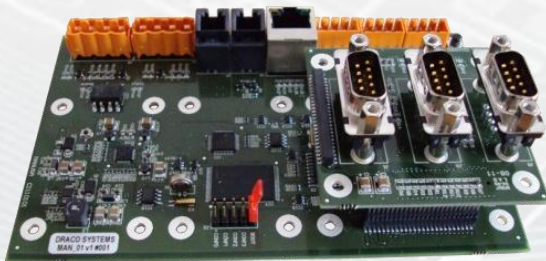
### PLATE RECOGNITION IP CAMERA

Real time car plate recognition with an IP camera



### GATEWAY

Solution for monitoring industrial buses remotely



### PCI FOR INTELLIGENT VIDEO ANALYSIS

Up to 10 boards per server (up to 40 video channels with analytics in one machine)



## ENCODER MPEG-4 RACK

Receive the video in real time through RTSP in the following formats: H.264, MPEG4 and MPEG2



## VIDEOCONFERENCE SYSTEM

Videoconferencing through ADSL and TV



## HELMET WITH AIRBAG

Motorcycle airbag control electronics



## VEHICLES TELEMETRY

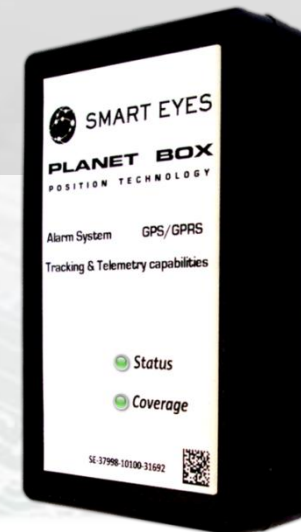
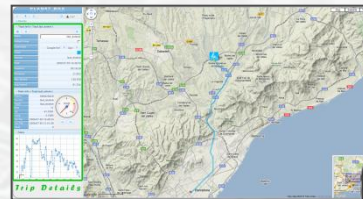
Monitor vehicle information in real time to prevent accidents and maintenance



## POSITIONING SYSTEM

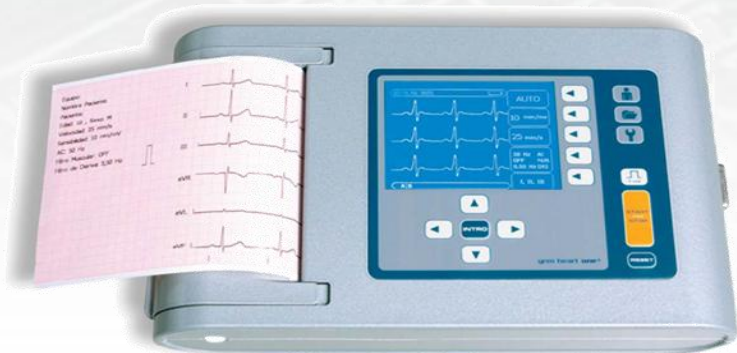
Alarm, tracking & telemetry system

GSM / GPRS / GPS module that lets you remotely control your belongings, notifying you in case of incidences or sabotage attempts



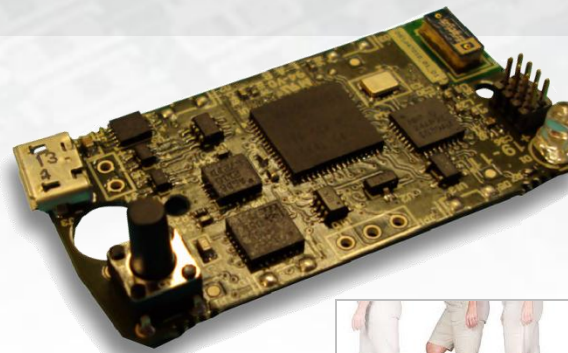
## ELECTROCARDIOGRAPH

Portable digital electrocardiography equipment



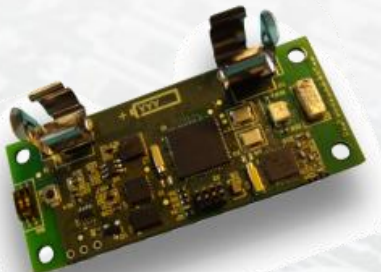
## SENSOR NETWORK REHABILITATION

Small network sensor with ANT communications



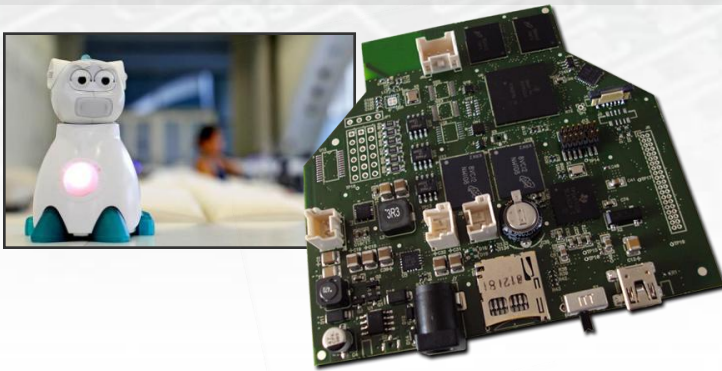
## INERTIAL SENSOR

Tri axis data for remote medical applications



## INTELLIGENT ROBOT

Emotions recognition, voice recognition, play music, move robot joints, give you the temperature ...



## VIRTUAL PERSONAL TRAINER

Touch the screen and visualize the exercise you want from your virtual personal trainer

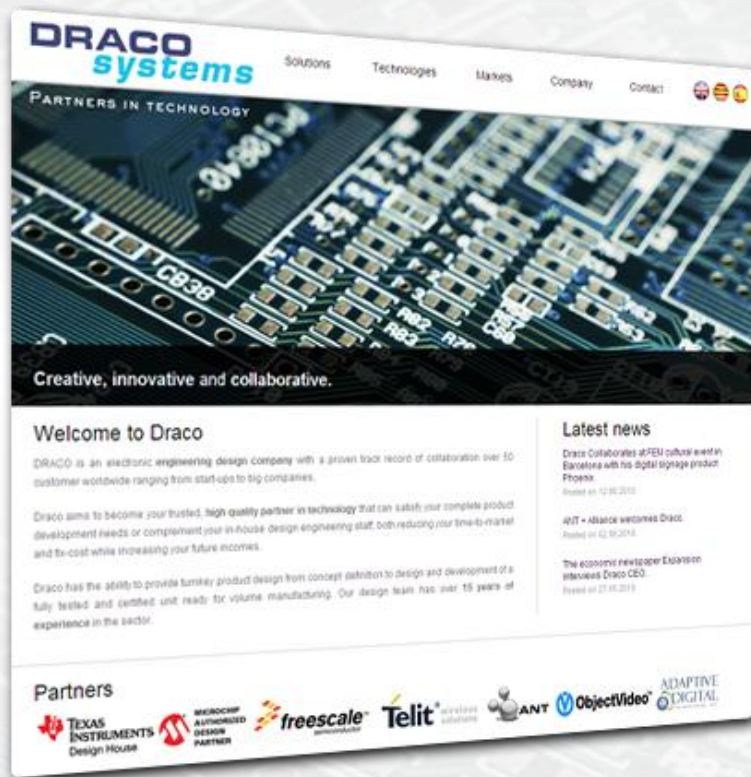


## HD WIRELESS CAMERA

Access point camera



Visit our website for more information:  
<http://www.dracosystems.net>



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**THANK YOU**