

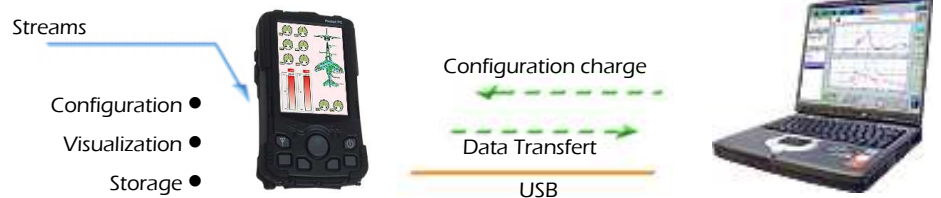
# MAG POCKET

## Ultra light test station

- MAG-POCKET is an ultra light acquisition system both miniaturized and standalone. Besides its small size, it is a powerful system with numerous functionalities for acquisition and data analysis. MAG-POCKET works as a standalone system and can be connected to a PC in the network architecture. MAG-POCKET acquires and analyses data streams from analog channels, telemetry PCM messages, 1553 buses, ARINC 429 channels and Ethernet messages.



### Functions



Real Time tests

Pre-configuration  
Post processing analysis

### MAG POCKET

- Efficiency
- Flexibility
- Security
- Services

#### Acquisition

- Acquisition of the telemetry PCM message (signal + clock, with format IRIG 106 class 1 & 2).
- Analog channels of 1553 messages or ARINC 429 channels or Ethernet messages.
- Data storage on board memory or external card memory.
- Replay
- Acquisition configuration defined locally or defined on a PC and downloaded.
- Data transfer to the PC after acquisition, *via* USB.

#### Visualisation

- Extraction of parameters from frames/messages whatever the format (binary, 2's complement, BCD ...).
- Quick-look visualization to display parameters or dump messages.
- Customized visualization
- Post processing visualization.

#### Analyse

- Several functions are available to preserve the parameters in engineering units (linear, polynomial, segments, ...).
- Data are analyzed *via* **MAGALI** software

#### Gestion

- Management of several acquisitions
- Transfer and analysis on PC



**MARC  
FAJARDO**

Technical Manager

«Small is beautiful»  
**E.F. Schumacher (Ernst Friedrich 'Fritz' Schumacher)**

"A marvel for the user, easy to transport, direct starting, rich and relevant results.  
A tool to be put in all pockets (...)"

## Key points

### Performance

- Telemetry up to 5 Mbps
- Acquisition with storage
- Ultralight
- 10 hours autonomy

### Evolutivity

- Network modularity
- Synchronisation with **MAGALI** systems on PC
- Frame reconfiguration with **MAGALI** software on PC
- Additional to **MAGPACK**, pocket PC with integrated HF reception function.

### Security

- Test storage
- Efficient system
- **MAGALI** compatible

### Services

- Installation on site
- Validation
- Maintenance
- Specific add-ons

## Applications

- On-board communication control.
- Calibration.
- Ultra portable visualization system.

## Features

### **MAG POCKET/IRIG**

<b>PCM Signals</b>	NRZ + clock or Biphase
<b>Input</b>	TTL or RS422
<b>Acquisition</b>	up to 5 Mbps
<b>Storage</b>	memory, SD or compact flash
<b>Real time display</b>	
<b>Commutable real time graphic pages</b>	
<b>Format (options)</b>	IRIG-106 - CE83 - CCSDS
<i>PCM features</i>	
<b>PCM word length</b>	4 to 16 bits
<b>Minor frame length</b>	4 to 32000 PCM words
<b>Major frame length</b>	4 to 4096 minor frames
<b>Parity management</b>	
<b>LSB /MSB management</b>	

### **MAG POCKET Product range**

#### **MAG\_POCKET with communication modules**

*Including PC Pocket, software and communication card*

<b>MAG_POCKET/IRIG</b>	For IRIG 106 telemetry format
<b>MAG_POCKET/CE83</b>	For CE83 telemetry format
<b>MAG_POCKET/CCSDS</b>	For CCSDS telemetry format
<b>MAG_POCKET/1553</b>	For bus MIL-STD-1553
<b>MAG_POCKET/ARINC 429</b>	For ARINC 429 channels
<b>MAG_POCKET/Analogue</b>	For analog channels
<b>MAG_POCKET/Ethernet</b>	For Ethernet messages
<b>MAG_POCKET/NDA</b>	For NDA network
<b>MAG_POCKET/RS232</b>	For RS232 serial format



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