

VISUS

- **Special Functions:** Video Logger integrated with Data Logger System
- **Communication Lines:**
CAN 1, no hw terminations
Ethernet 1, 10/100 MBit/s
Serial line 1 RS232
USB Pen Drive min. 4GB
USB 2.0 1
- **Video Flash Memory:** 4GB
- **Video input:**
4 channels, standard NTSC / PAL, 1 Vpp (75 Ω)
- **Audio input:**
1 channel, 1Vpp
- **Video Compression:**
MPEG4
ISO/IEC 14496-2, MPEG4 ASP@Level5
NTSC - 352x240 a 120fps, 720x480 at 30fps
PAL - 352x288 a 100fps, 720x576 at 25fps
- **Audio Compression:** 8bit 8KHz u-Law 64KBps
- **Precision:** <1 acquired video frame
- **Operating temperature:** -10+70°C
- **Dimensions / Weight:** 139x111x57 mm / 600 g
- **Material:** anodised aluminium

- **Protection Level:** IP64
- **Connectors:** DEUTSCH AS212-35PN, DEUTSCH AS214-35PN



DATA LOGGERS

SHARK

- **Special Functions:** Data acquisition , Analogue/digital inputs, CAN and internal channels, Lap Time ,GPS Management, Expansion PCMCIA Card
- **Communication Lines:**
CAN 3, 1MBit/s, C standard, sw cfg.baudrate
Ethernet 1, 10/100 MBit/s
Serial line 1 RS232
- **Input captures:** 4, Max frequency 2kHz
- **Analogue inputs:** 16, SE or PT1000, 10 bit, hw filter 500Hz
- **Digital inputs:** beacon, marker, eject, Manchester, Power Latch
- **Max channels:** 1024
- **Acquisition flash disk:** 256 MB internal, Compact Flash Card external
- **Max Acquisition rate:** 128 KB/s internal + 80 KB/s Card (independent cfg.)
- **Frequency range:** 1Hz±10 KHz
Note: for standard chs: max 1KHz; for analogue chs: max 4@5kHz or 1@10KHz
- **Voltage references:** 3, max 50mA, internal temperature sensor
- **Supply voltage:** 9÷16 Vdc
- **Consumption:** Typ. 950mA
- **Operating temperature:** -40 +85°C (compact flash card excluded)
- **Dimensions / Weight:** 130x106x37 mm / 560 g

- **Material:** Anodised aluminium
- **Protection Level:** IP64
- **Connectors:** 8ST0C-14-35PN, 8ST0C-12-35PN
- **Telemetry:** 750 B/s, 1÷200 Hz, 128 chs, RS232
- **Note:** Tx elaborated data over CAN
data acquisition is designed for future use of 2 ARCNet lines (10MBit/s)
PC software:
Easy(freeware) or Standard(hw-key),
GPS management via CAN (VB10SPS o VBOXII®) or via RS232 (standard NMEA-0183: GPRMC, GPGGA types; in mutex vs. telemetry);
SMS transmission (via DKMGSM) on programmable Event detection (Trigger In/Out, Beacon, Local Condition,...)



COBRA

- **Special Functions:** Data acquisition , Analogue/digital inputs, CAN and internal channels, Lap time ,GPS Management, Telemetry Real Time
- **Communication Lines:**
CAN 2, 1MBit/s, C standard, sw cfg.baudrate
Ethernet 1, 10 MBit/s
Serial line 1 RS232, 1 RS485
- **Input captures:** 4, Max frequency 1,5kHz
- **Digital inputs:** beacon, marker
- **Analogue inputs:** 16, single ended, 12 bit
- **Max channels:** 288
- **Acquisition flash disk:** 64, 128 MB
- **Max Acquisition rate:** 40 KB/s
- **Frequency range:** 1÷1000 Hz
- **Telemetry (Real Time):** 500 B/s, 1÷200 Hz, 64 ch, RS232
- **Voltage references:** 3, max 50mA
- **Supply voltage:** 9÷16 Vdc
- **Consumption:** Typ. 160mA
- **Operating temperature:** -10 +70°C
- **Dimensions / Weight:** 117x105x40.5 mm / 380 g
- **Material:** Anodised aluminium
- **Protection Level:** IP64
- **Connectors:** SJT00RT-16-35PN

- **Note:** Tx elaborated data over CAN
PC software:

Easy(freeware) or Standard(hw-key),
GPS management via CAN (VB10SPS o VBOXII®) or via RS232
(standard NMEA-0183: GPRMC, GPGGA types; in mutex vs. telemetry);
SMS transmission (via DKMGSM) on programmable Event detection
(Trigger In/Out, Beacon, Local Condition,...)



LIZARD

- **Special Functions:** Data acquisition , Analogue/digital inputs, CAN and internal channels, Lap Time ,GPS Management
- **Communication Lines:**
USB 1, 12 MBit/s
CAN 2, C and B/C standard, sw cfg.baudrate
Ethernet 10/100 MBit/s

- | | Base | Plus | Plus Duo |
|---------------------------------|---|--|----------------------|
| • PC Communication line: | USB | USB | Ethernet and USB |
| • Max channels: | 64 | 128 | 128 |
| • Internal data memory: | 8 ⁽¹⁾ , 16 ⁽²⁾ MB | 16 ⁽²⁾ , 32 ⁽³⁾ MB | 64 ⁽³⁾ MB |
| • Max Acquisition rate: | 16 KB/s | 16 KB/s | 16 KB/s |
| • Serial line: | 1 TTL | 1 RS232 | 1 RS232 |
| • Analogue inputs(4): | 4, 10 bit | 8, 10bit | 8, 10bit |
| • Digital inputs: | Beacon | Beacon, Key, Pickup | Beacon, key, Pickup |
| • Consumption: | Typ. 160mA | Typ. 200mA | Typ. 230mA |
| • Weight: | 180 g | 200 g | 200 g |
- **Frequency range:** 1÷500 Hz
 - **Accelerometer:** internal, 2 axis, +/-5G
 - **Digital outputs:** 4, 0÷5V, max 50mA, open collector
 - **Input captures:** 4, 0÷5V, Max frequency 2kHz
Sensor types: IC1 hw config.: Hall effect (default) / Ignition coil (see datasheet)
 - **Voltage references:** 1, max 50mA, internal temperature sensor
 - **Supply voltage:** 9÷16 Vdc

- **Operating temperature:** -10 +70°C
- **Dimensions:** 118x84x42 mm
- **Material:** PA6GF20
- **Protection Level:** IP64
- **Connectors:** duo twin FCI 100840BKK
- **Note:** Tx elaborated data over CAN

PC software:

- (1) Easy(freeware),
- (2) Easy or Standard(hw-key),
- (3) Standard

Each 2 SE analogue inputs can be hw config. as differential input if requested (default: 8SE).

Sw: GPS management via CAN (VB10SPS o VBOXII®) or via RS232 (standard NMEA-0183: GPRMC, GPGGA types)

