logiRECORDER 3.1 Automotive Video Data Logger

RECORD + PLAYBACK + ANALYSIS

logiRECORDER Automotive Video Data Logger

Autonomous Driving and ADAS Testing Made Easy!

- Synchronous recording of up to 12x video channels and >20x network channels
- Stack multiple units into one logger with more video and network channels
- Synchronous video and networks data playback for Hardware-In-the-Loop (HIL) simulations
- FPGA-based modular design for flexible interfacing, including customer-made modules
- Any automotive video interface, including next generation TI® FPD Link-III, Maxim Integrated™ GMSL…
- Dedicated 4x 1GbE smart Ethernet channels with the high-throughput local processing
- Support for logging and analysis of the industry leading smart digital cameras
- 2x 10GbE Ethernet channels integrated for future HIL expansion ports
- Vehicle networks: BroadR-Reach®, Ethernet, CAN, LIN, FlexRay, UART, DIG I/O, GPS…
- Video and data recordings are stored with a central timestamp
- GPS PPS hardware time synchronization across multiple stacked or remote data loggers
- Intuitive dashboard application controls HW configuration, recording and playback
- Software development kit (SDK) for customer logging applications
- Test-fleet installations can be controlled through 4G mobile networks
- Standard and event-triggered recording of video and data before and after the trigger
- Triggers and filters can be setup as signals and messages from the vehicle databases
- Data logged in the industry most popular data log formats: ROS, ASC, PCAP, MDF4...
- Currently supported vehicle databases: CAN XML DBC, LIN LDF, FlexRay FIBEX
- Four (4) portable SSD Disks (2-32 TB combined) enable hours of recordings
- Standard file system with support for large files
- A single box (350x281x110 mm) device with a very low power consumption
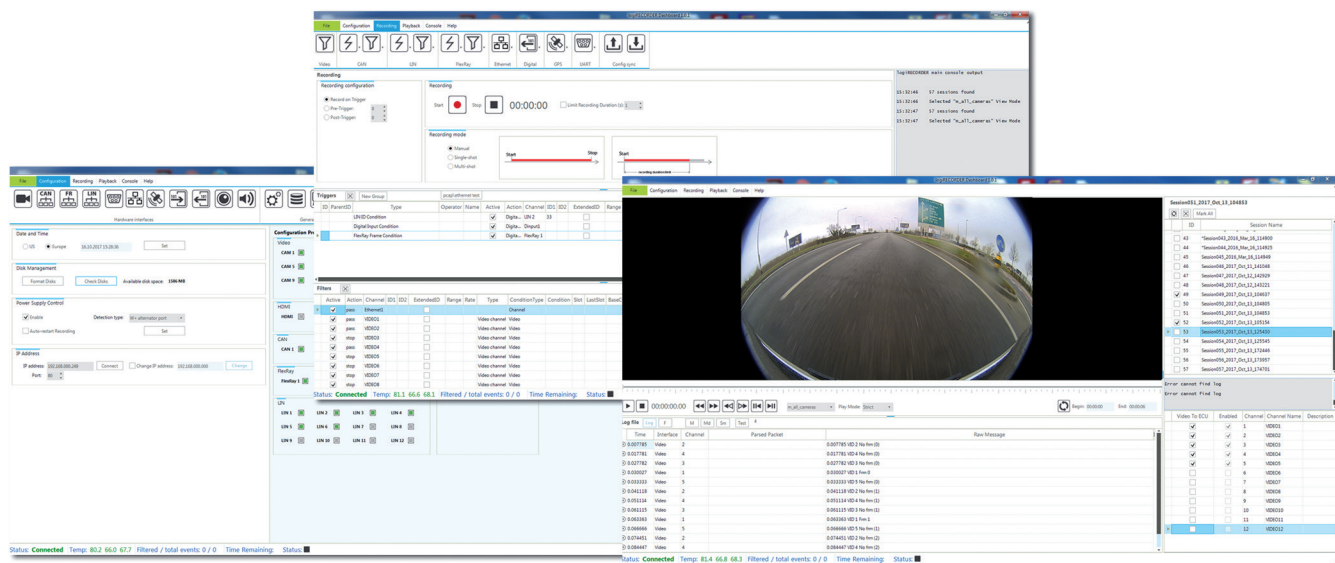- Rugged housing withstands use over a wide temperature and vibration range

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XILINX®

ALLIANCE PROGRAM
PREMIER MEMBER

logiRECORDER System Connections

Test Vehicle Networks (Sensors)

RADAR, LIDAR, ULTRASOUND, GPS, IMU...

Cameras (up to x12)

VIDEO IN
CTRL, PWR

DATA

VIDEO OUT
CTRL, PWR
DATA

ECUs under Test

ETHERNET SATA HDMI

Control PC

Integrated Portable 4 x SSD Disk

HDMI Monitor
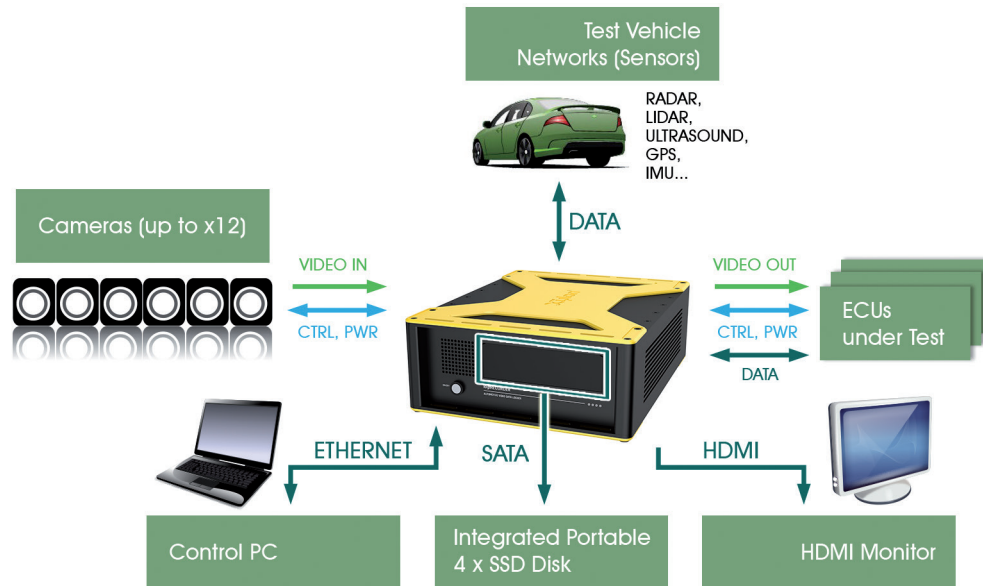
* Stack multiple logiRECORDER units to expand data logging capabilities

logiRECORDER Dashboard

The dashboard PC application enables hardware configuration, setup of advanced triggers and filters for continuous and event-triggered recordings, parallel playback of video and network data, recorded data manipulation and offline analysis. The dashboard enables remote controls through WiFi and 4G mobile networks.

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