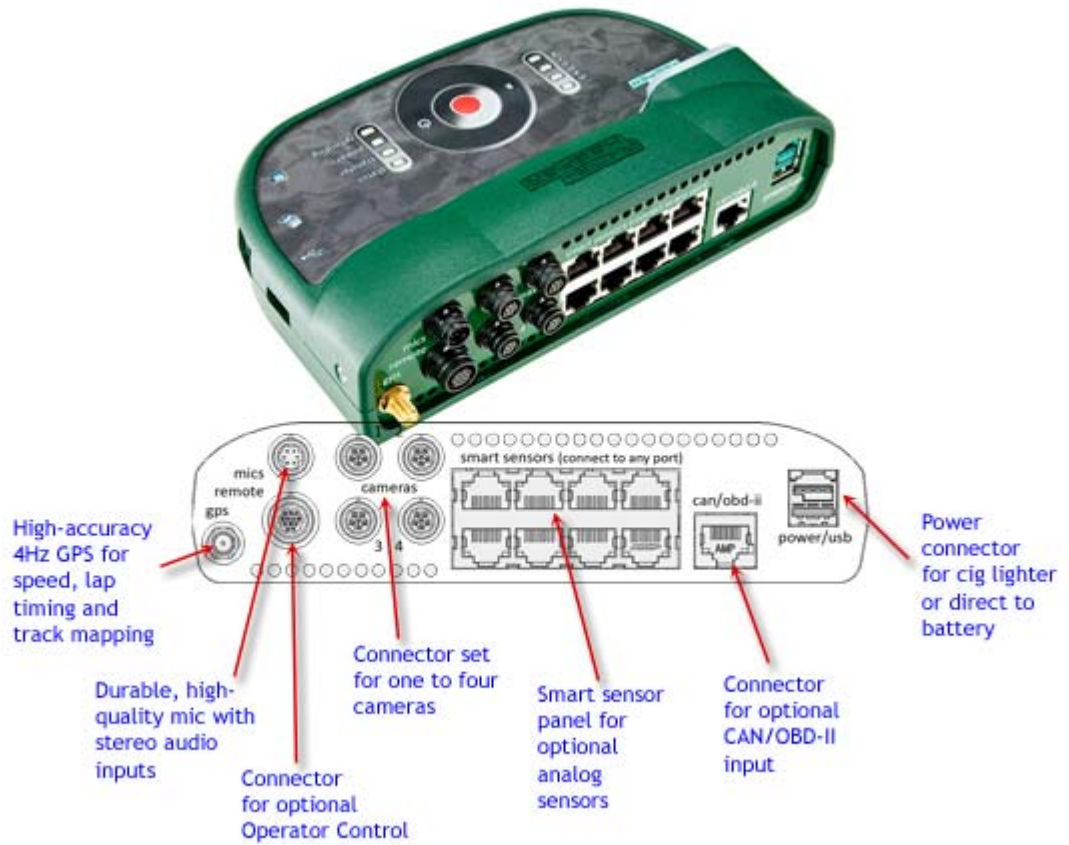


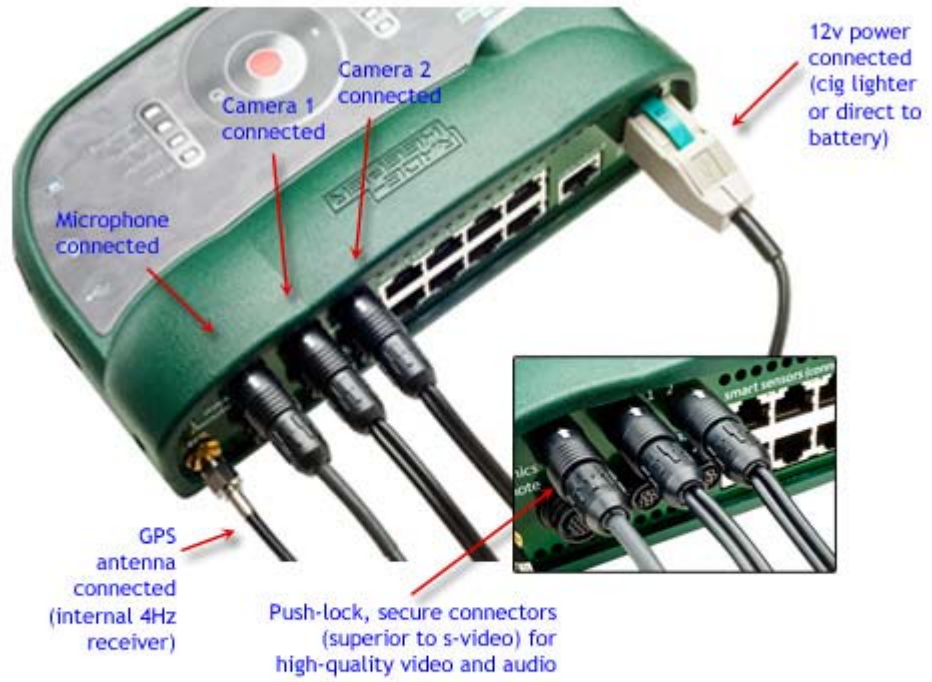
Race-Keeper System Details



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Video

- Video format - NTSC4 composite video camera inputs NTSC or PAL
- Video signal and power in single locking connector
- Simultaneous dual frame recording (two MPEG encoders record two camera views full frame)
- DVD quality resolution (720x480 video resolution)
- MPEG 4
- 30 frames per second recording (NTSC)
- 2.5-4MBit/Sec video bit rate user selectable
- User defined video layout - Multiple full screen, Picture-in-picture, split screen options using 1 to 4 camera views
- Video out jack connector for camera setup

Recording media

- SD card, removable
- USB key
- Internal storage

Max logging time

Dependent on memory device size and resolution settings (examples below)

- Recording single stream at 5Mb/sec onto a 2GB SD card allows 1 hour recording
- Recording dual stream at 8 Mb/sec on both frame onto a 16GB SD card allows 2 hours of recording
- Recording single stream at 2.5 Mb/sec onto a 16GB SD card allows 12.5 hours of recording

Control buttons

- Membrane switch panel with heavy click and button feedback characteristics
- Power on/off
- Record/stop record
- Pause/unpause record

LED indicators

- High-visibility LEDs
- Record - Red when system is recording
- Power - Green when system is on, Red when system is off but power is available, flashing red if power is bad or low

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- Status - Green: Good
- Transfer - Yellow flashing: Video and data available to offload, Yellow solid: offload in progress
- Memory used - 3 green LEDs, on yellow/red LED indicating memory almost full/full

Data inputs

- Locking RJ-45 connectors
- 8 multi-function analog/digital sensor inputs
- Steering
- Throttle
- Brake
- RPM
- Wheel-speed
- Beacon
- Two additional spare sensor inputs

OBD-II/CAN Data

2 CAN I/O ports for ECU interface

All ECU channels available

- Vehicle OBDII / CAN input on USB - multiple channels available
- Internal accelerometer: 3-axis; $\pm 6.0g$ range, 0.01g resolution
- Battery voltage, box temperature recorded
- PC connection USB port for setup and data transfer if not using instant offload

Mechanical

- Custom flame retardant ABS enclosure
- Width 7.35"/187mm, depth 4.75"/121mm, height (front) 1.4"/36mm and height (back) 2.1"/53mm
- Weight 1.1 lb/0.5kg
- Operating temperature: -20 to +55 C ambient
- Storage temperature: -20 to +75 C
- Shock: 0.25m onto hard surface, except connector face
- Vibration: 6g @ 0-1KHz random pattern
- Compliant with FCC part 15 Class B, and current CE standards

Power

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- 12v DC, 1Amp (15W max)
- Locking power connector
- USB integrated into power loom for peripheral connection

Mounting options

- 3M dual lock Velcro (provided)
- 4-hole AMPS bolt pattern in case standard mount

Audio

- Two-channel input, single locking connector
- Automatic Gain Control built-in
- Line level or dynamic microphone inputs
- 5v or 12v supply