



# sensor

## SPECIFICATIONS

### Controller

Radio Type: Digital 2.4Ghz  
 Radio Mode: Frequency Hopping Spread Spectrum  
 Range: 1000ft.  
 Power Output: 14.5mW  
 Frame Rate: 100 frames per second  
 Latency: 10 millisecond max, 5ms typical  
 Dimensions: 300mm x 139mm x 125mm (HWD)  
 Weight (w/Batteries): 674g  
 Servo Channels: 4  
 Rechargeable Batteries: NiMH (included)  
 Charger: Included  
 Model Memory: 8 named, custom graphics and sound  
 Controller Batt. Voltage Monitor: graphic and real-time  
 Car Batt. Voltage Monitor: graphic and real-time  
 Timers: operation and lap timers  
 Trims: adjustable trims and sub-trims  
 Controls: dual rate, endpoints, exponential, mixing  
 and servo speed adjust on all channels  
 Anti-Lock: brake anti-lock with cycle, delay and depth  
 Idle Up: yes

Speaker: .75" w/headphone jack  
 Audio: programmable WAV file audio and tones  
 Tactile Alarm: programmable vibrator  
 Display: movable backlit monochrome LCD  
 Resolution: 128 x 64 pixels  
 Auto Modes: auto display and display only  
 Presets: failsafe and auto start  
 Telemetry: 3 channels of real time telemetry  
 Telemetry Sensors: speed, temperature and battery  
 Servos Supported: any combination of analog and digital  
 Left-Handed Operation: yes (user modified)  
 PC Connectivity: USB serial for customization,  
 analysis and updates  
 Antenna: fixed 3" antenna  
 Architecture: software upgradable

### Transceiver

Dimensions: 47.7mm x 30.2mm x 19mm  
 Weight: 34g (including antenna)  
 Antenna length: 22.8cm  
 Antenna thickness: 1.8mm

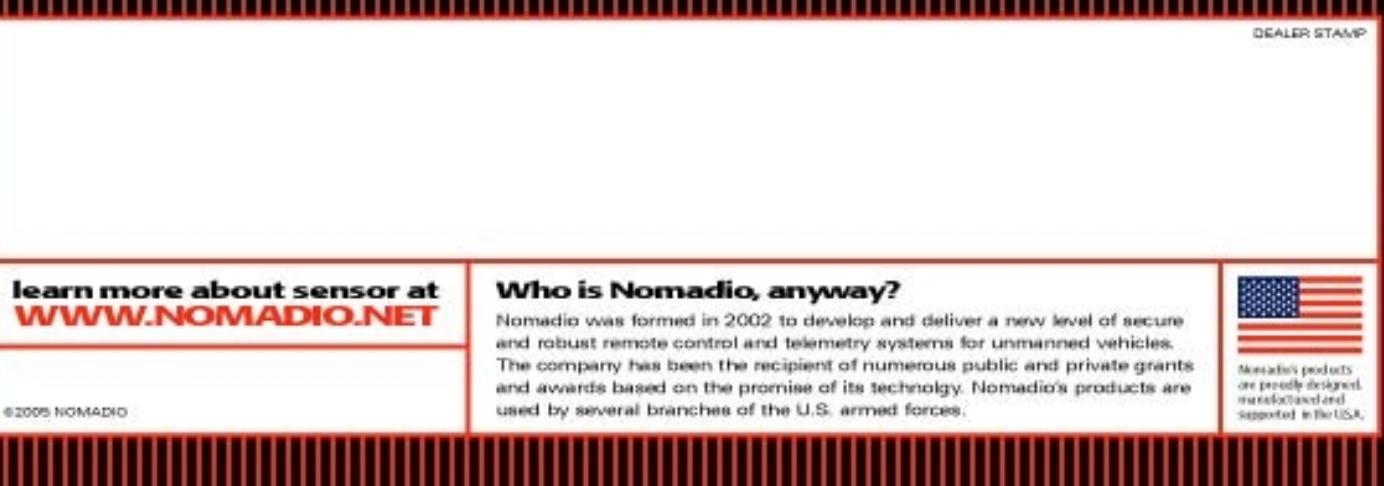


# sensor

## PREMIUM DIGITAL R/C CONTROL SYSTEM



**The Digital Controller System that changes everything about R/C.**



learn more about sensor at  
[WWW.NOMADIO.NET](http://WWW.NOMADIO.NET)

©2005 NOMADIO

### Who is Nomadio, anyway?

Nomadio was formed in 2002 to develop and deliver a new level of secure and robust remote control and telemetry systems for unmanned vehicles. The company has been the recipient of numerous public and private grants and awards based on the promise of its technology. Nomadio's products are used by several branches of the U.S. armed forces.



**NOMADIO**  
 digital telemetry & control systems



**...A complete redesign of the R/C Controller using today's state-of-the-art technology:**

- 2.4Ghz Frequency Hopping Spread Spectrum (FHSS) radio
- 100Hz frame rate for super-fast response
- Fully digital path from your hands to your servos
- Ultra-high resolution driving controls
- Fully integrated real-time telemetry from your car
- Heads-up competition driving system with real-time driver alerts
- Programmable alerts include customized screens, sounds and vibration
- Large backlit movable graphic display
- Ergonomic design reduces hand and arm fatigue
- Connects to your PC for easy programming and customization
- PC software includes hundreds of sounds, graphics, setups and tools
- ROAR approved
- Three year limited warranty
- Designed and manufactured in the U.S.A.



#### • NO MORE CRYSTAL RADIOS OR FREQUENCY CLIPS

Sensor uses 2.4Ghz Frequency Hopping Spread Spectrum (FHSS) radio technology. Just like your WiFi network, Sensor finds a clear channel automatically without you ever having to deal with frequency crystals or glitches again. Unlike clumsy "bolt on" DSS radios, Sensor's is built to take advantage of FHSS speed and accuracy.

#### • REAL-TIME TELEMETRY

Sensor's digital radio is two way, not one way, like crystal radios. That means that for the first time Sensor gives you real time reports of the condition of your car while you are driving it. Initially we provide sensors for speed, temperature and battery voltage, but the system is expandable and we will be releasing several exciting new sensors over the coming year. And Sensor's telemetry systems are fully integrated into the controller.



#### • HEADS-UP COMPETITION DRIVING SYSTEM

Sensor gives you important alerts about your car without requiring you to take your eyes off the track. It does this with an integrated sound and vibration system that allows you to program what you want to know and how you want to be told. You can even use headphones to keep your alerts private.



# This is how **sensor** changes everything about R/C.

#### • IT HAS PC-CONNECTIVITY

Sensor was designed to use your PC to make it incredibly easy to program, back up, analyze and update. Once you register your Sensor at Nomadio's web site, we'll automatically tell you when new software is available to add or improve functions on your Sensor. No other R/C product offers Sensor's future upgrade capability. There will even be a developer's kit to allow third parties to develop software and expansion hardware for the Sensor system.



#### • IT'S RIDICULOUSLY FAST

Sensor's design team optimized its digital brain for incredible speed and accuracy. The system sends control and telemetry updates to and from the car 100 times per second, with a resolution of 4096 steps per channel. Sensor has no conversion delays like "bolt on" digital radios — it's all digital from your hands to the servos.

#### • BRAINS AND BANDWIDTH IN YOUR R/C CAR

For the first time, there is a microcontroller brain in your R/C car. This breakthrough will enable all sorts of new and interesting capabilities for R/C. For example, Sensor's transceiver brain has a built-in failsafe that gets your car safely stopped if the radio should disconnect for any reason.



**NOMADIO** 