



In Nissan's CARWINGS system, Japan's first total Telematics service, a variety of information is now available in the automobile—at an affordable price. This points to the emerging Telematics/IT and Intelligent Transport System (ITS) technologies that make driving more efficient and more enjoyable.

CARWINGS is currently available as a reasonably priced unit on the March and Cube; an advanced DVD navigation system with CARWINGS functions is also available on the Elgrand, Primera, Fairlady Z, Teana, X-Trail and Presage. The number of CARWINGS-capable vehicles will continue to grow in the future.

## Creating Comfortable, Convenient Driving

### Intelligent Transport System (ITS)

ITS technologies now being realized at Nissan promise driving that is more efficient, environmentally friendly, comfortable and enjoyable.

The Lane-Keep Support System helps to reduce driver workload, helping to keep the car in its own lane. Images taken by a CCD camera are processed to detect the white lane markers. The system then assists the driver in keeping the vehicle within the lane, even when affected by side winds or a slanting road surface. Driver operation of the steering wheel or the turn signals temporarily deactivates the system.

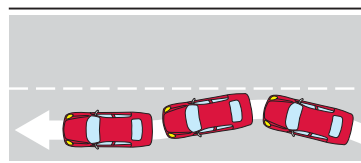
Adaptive Cruise Control (ACC) also helps to make driving more comfortable and convenient. The system uses a radar sensor to brake ahead of the driver's reaction when necessary, hold speed at a pre-set maximum and control the distance behind the vehicle in front.



CARWINGS

### Telematics/IT

Nissan took a bold step into the new world of Telematics with the introduction of CARWINGS, Japan's first total telematics service. CARWINGS integrates human-assisted and automatic services, mobile phone and personal computer technologies to bring a variety of information to the vehicle occupants. Through an LCD screen and assisted by verbal interface, the driver can access real-time traffic conditions, news, restaurant, weather and other information; make hands-free telephone calls; inform others of the automobile's current location; and ask help-desk operators for navigation, search and emergency support. The driver can also input vehicle destination and midpoints via mobile phone or PC.



### Lane-Keep Support System

The Lane-Keep Support System helps to keep the car within its lane, even when the car is affected by road inclination or crosswinds. This reduces driver strain and improves driving comfort.