

ALTRA EV™

NISSAN®

## PLACING A PRIORITY ON PROTECTING THE GLOBAL ENVIRONMENT

FOR ALMOST 60 YEARS, NISSAN HAS EMBRACED THE TECHNOLOGICAL CHALLENGES OF PRODUCING AUTOMOBILES THAT ARE SAFER, MORE COMFORTABLE AND ENJOYABLE TO DRIVE - AS WELL AS RESPECTFUL OF OUR PRECIOUS NATURAL RESOURCES.

NISSAN'S VISION IS TO ACHIEVE A HARMONIOUS COEXISTENCE OF PEOPLE, AUTOMOBILES AND NATURE, A PHILOSOPHY THE COMPANY CALLS SYMBIOSIS. THIS VISION HAS EARNED NISSAN A "BEST OF THE BEST STRATOSPHERIC OZONE PROTECTION AWARD" IN 1997 FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY FOR THE COMPANY'S COMMITMENT TO PROTECTING THE ENVIRONMENT.

AS WE MOVE INTO THE NEXT CENTURY, NISSAN HAS TAKEN THE INITIATIVE EVEN FURTHER WITH A BROAD RANGE OF ACTIVITIES DESIGNED TO HELP PRESERVE THE ENVIRONMENT IN ALL AREAS OF THE COMPANY'S OPERATIONS, INCLUDING PRODUCT DEVELOPMENT, MANUFACTURING AND POST-USE VEHICLE DISPOSAL. THE ALTRA EV ELECTRIC VEHICLE, SHOWN IN THESE PAGES, IS JUST ONE EXAMPLE. WE INVITE YOU TO VISIT OUR WEB SITE AT [WWW.NISSAN-NA.COM](http://WWW.NISSAN-NA.COM) FOR MORE DETAILS.





**WELCOME TO HISTORY IN THE  
MAKING: NISSAN ALTRA EV**

EVERY SO OFTEN, A VEHICLE COMES ALONG THAT STIRS THE IMAGINATION. ONE THAT MAY APPEAR EVOLUTIONARY, BUT IN ITS DETAIL ADVANCES THE STATUS QUO BY SUCH GREAT LEAPS THAT, IN RETROSPECT, IT WILL BE CREDITED WITH PUSHING THE BOUNDARIES OF DESIGN AND TECHNOLOGY. THE ORIGINAL DATSUN 510 WAS JUST SUCH A VEHICLE, AS WERE THE 240Z, KING CAB TRUCK, MAXIMA, 300ZX AND OTHERS THAT FOLLOWED.

NOW, NISSAN PROUDLY PRESENTS THE ALTRA EV - THE REVOLUTIONARY NEW LITHIUM-ION BATTERY POWERED VEHICLE THAT MAY CHANGE HOW THE WORLD VIEWS ELECTRIC VEHICLES. THE NISSAN ALTRA EV WILL BE AVAILABLE TO A SELECT NUMBER OF DEMONSTRATION FLEET USERS IN CALIFORNIA IN 1998 AND 1999, WITH CONSUMER AVAILABILITY PLANNED FOR 2000.



**ALTRA EV™**

 **EVDL.org**



## TECHNOLOGY THAT STANDS APART

AS THE FIRST ELECTRIC VEHICLE AVAILABLE IN THE UNITED STATES POWERED BY LITHIUM-ION BATTERIES, THE NISSAN ALTRA EV INSTANTLY STAKES OUT A LEADERSHIP POSITION IN EV TECHNOLOGY. BUT THERE'S MORE. MUCH MORE.

LIKE A 62 KW, 13,000 RPM, 83 HORSEPOWER SYNCHRONOUS MOTOR - THE FIRST TO UTILIZE A NEDDYMIUM-IRON-BORON ALLOY INTERNAL HIGH PERFORMANCE MAGNET, FOR A CLASS-LEADING POWER-TO-WEIGHT RATIO. THE MOTOR ALSO OPERATES AT APPROXIMATELY 89 PERCENT EFFICIENCY. AND A SOPHISTICATED BATTERY CONTROLLER COMPUTER WITH DUAL CPU COMPUTER ARCHITECTURE TO CONTROL POWER TO EACH CELL.

WANT MORE? HOW ABOUT A REGENERATIVE BRAKING SYSTEM THAT USES THE DRIVE MOTOR TO CAPTURE ENERGY WHEN NOT BEING USED TO PROPEL THE VEHICLE, A RESPONSIVE SUSPENSION UTILIZING NISSAN'S INNOVATIVE REAR MULTI-LINK BEAM™ SUSPENSION, AND PROVEN, CONSUMER FRIENDLY INDUCTIVE BATTERY CHARGING. IT'S ENOUGH TO MAKE ALTRA EV A ROLLING LABORATORY OF FUTURE AUTOMOBILE DESIGN.



## THE POWER OF COMFORT AND SAFETY

THE NISSAN ALTRA EV WAS DESIGNED TO MEET ONE SIMPLE MANDATE: BE THE MOST VERSATILE AND ATTRACTIVE ELECTRIC VEHICLE ON THE MARKET. COMBINING THE COMFORT AND VERSATILITY OF A HIGHLY FUNCTIONAL COMPACT VAN WITH THE CRISP STYLING OF A SPORT UTILITY VEHICLE, THE ALTRA EV FITS FOUR PASSENGERS AND THEIR LUGGAGE IN SPACIOUS COMFORT - WITH PLENTY OF

THOUGHTFUL FEATURES TO MAKE THE JOURNEY MORE ENJOYABLE. SAFETY FEATURES INCLUDE DUAL AIR BAGS AND SIDE-DOOR GUARD BEAMS.

### SPECIFICATIONS

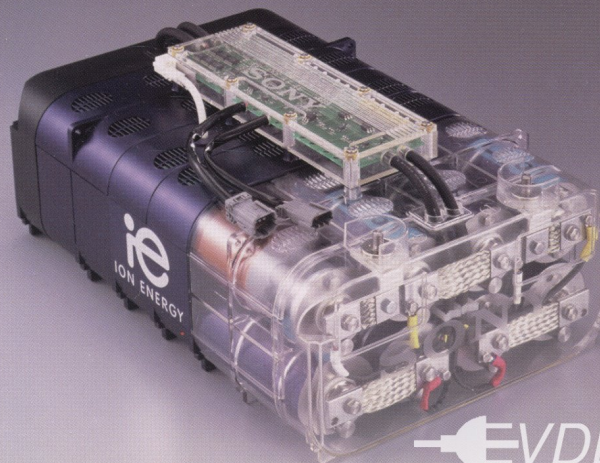
WHEELBASE	110.2 IN.	HEIGHT	66.8 IN.
LENGTH	191.7 IN.	WEIGHT	3,749LBS
WIDTH	69.5 IN.	SEATING	4 ADULTS



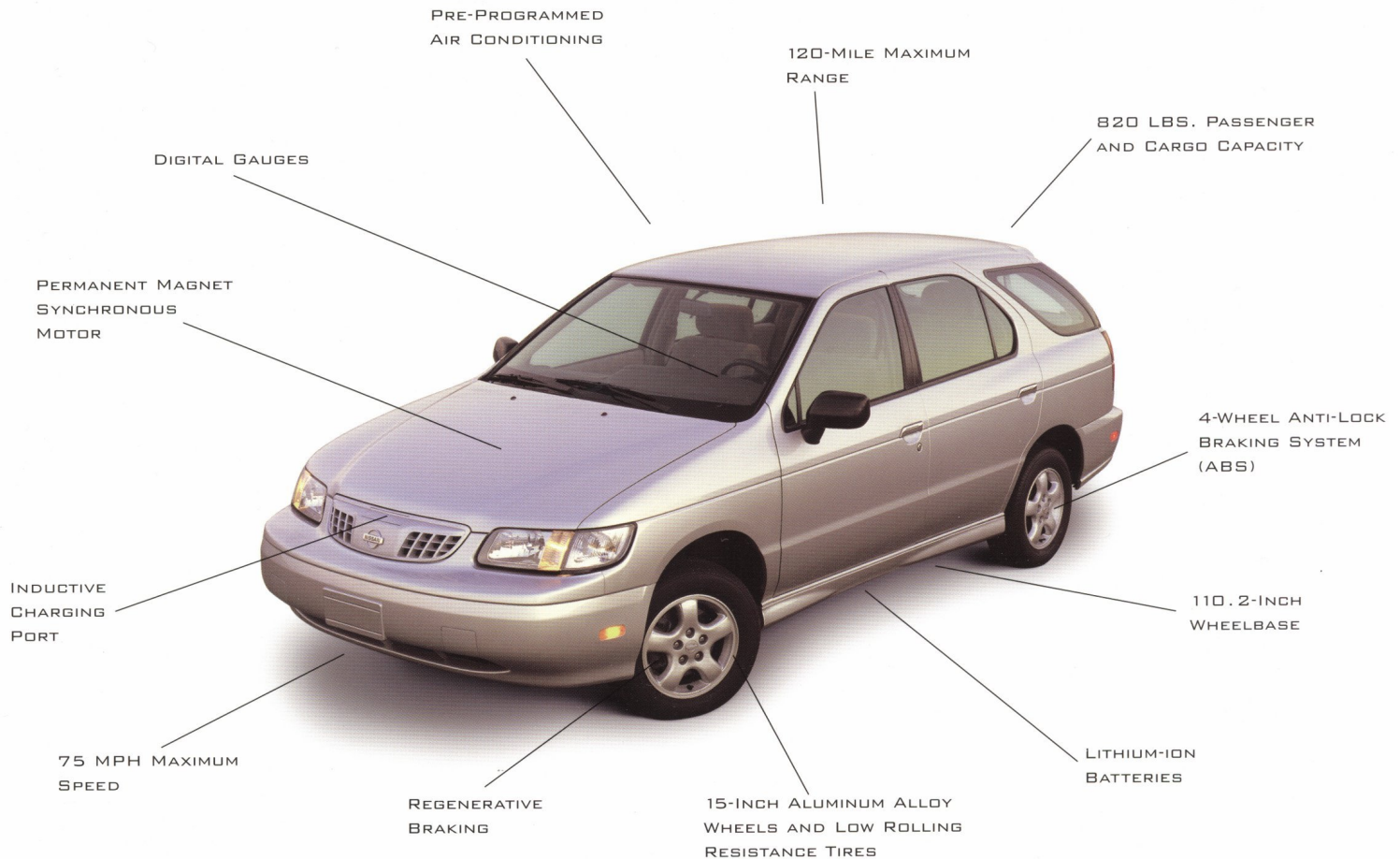
## A SIGNIFICANT STEP FORWARD IN BATTERY TECHNOLOGY

THE ALTRA EV'S ADVANCED LITHIUM-ION BATTERIES, JOINTLY DEVELOPED BY NISSAN AND THE SONY CORPORATION, ARE THE SAME TYPE OF LIGHTWEIGHT, HIGH ENERGY STORAGE CAPACITY POWER SOURCE USED IN NOTEBOOK COMPUTERS AND TOP-END VIDEO CAMERAS.

WITH ABOUT THREE TIMES THE ENERGY DENSITY OF CONVENTIONAL LEAD ACID BATTERIES, THEY OFFER A GREATER ENERGY CHARGE FROM A SMALLER, LIGHTER BATTERY PACK. AS A RESULT, THE ALTRA EV HAS AN EXTENDED DRIVING RANGE OF 120 MILES (COMBINED CITY AND HIGHWAY). MORE IMPORTANTLY, THE LITHIUM-ION BATTERY TECHNOLOGY HELPS GIVE THE ALTRA EV MAXIMUM POWER OF 83 HORSEPOWER (62 KILOWATTS) AND MAXIMUM TORQUE OF 117 FT-LBS.



# ALTRA EV<sup>TM</sup>



**Enjoy the ride.<sup>TM</sup>**

IN NORTH AMERICA, NISSAN'S OPERATIONS INCLUDE STYLING, ENGINEERING, MANUFACTURING, SALES, CONSUMER AND CORPORATE FINANCING, AND INDUSTRIAL AND TEXTILE EQUIPMENT. NISSAN IN NORTH AMERICA EMPLOYS MORE THAN 20,000 PEOPLE IN THE UNITED STATES, CANADA AND MEXICO, AND GENERATES MORE THAN 70,000 JOBS THROUGH MORE THAN 1,500 NISSAN AND INFINITI DEALERSHIPS ACROSS THE CONTINENT.

MORE INFORMATION ON NISSAN IN NORTH AMERICA AND THE COMPLETE LINE OF NISSAN AND INFINITI VEHICLES CAN BE FOUND ONLINE AT

[WWW.NISSAN-NA.COM](http://WWW.NISSAN-NA.COM)

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