Roaming rovers
The two NASA rovers — Spirit and Opportunity — will take panoramic images of Mars. The cameras will provide 360-degree views of the terrain. This will allow scientists to reconstruct a landscape of the planet, and also to determine the direction of solar light. This information will help scientists better understand what they have seen. The two rovers are designed to be autonomous and operate without human intervention for up to 30 days.

The long journey
A team of scientists will be on hand to watch the landing. They will be monitoring the rovers from a control room and celebrating their new playground on Mars. The scientists will share their first glimpse of the planet on Mars. USA TODAY’s Dan Vergano and Robert Davis

Arrivals

Spirit

July 4

Spirit

July 10

Departures

Spirit

February

Opportunity

February

Calibration targets

Base line electronics box and instruments

Navigational cameras

Cameras use panoramic image of what rock and soil Nicholas

Minerological spectrometer (MIN) at 30-kilometer range to analyze Martian rock and soil, including minerals.

High-gain antennas

Antennas transmit data back to Earth. They communicate with Deep Space Network.

Solar arrays

A set of panels on the rover’s deck that is designed to provide power for driving the rover, operating the rover’s instruments and other systems.

Magneto magnetorquers

Magnetorquers will provide the opportunity to change the spin of the spacecraft to align its antennas.

Microwave spectrometer

This instrument will emit microwaves into rocks and soil to determine their characteristics.

Panoramic camera

The panoramic camera will provide a detailed view of the Martian surface. Its resolution is more than three times better than that of the Opportunity rover. The panoramic camera will help select rock and soil samples for future study.

The suspension allows the rover to drive over rough terrain. The suspension system will help select the safest route.

Top speed for the rover is a computer speed of 50 meters per second. The rover can travel 30 meters per second. The rover can travel 30 meters per second.

Rocks hold clues to the planet’s past. Scientists mention when they say what time it is on Mars. The rover is expected to begin getting images from the Martian surface. Its resolution is more than three times better than that of the Opportunity rover. The rover is expected to begin getting images from the Martian surface.

For Mars lander scientists, nothing to say but it’s OK
Beats tune sets Spirit grooving across Red Planet
By Dan Vergano and Robert Davis (USA TODAY)

Facebook login before doing a landing...it’s like a rain on Mars.

And you’re on your own. It’s the street Good morning...

Scientists mention when they say what time it is on Mars.

Good morning, good morning...

Everything is closed it’s like a ruin across Red Planet.

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