



# INSPIRON 14/14R

## Specifications

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2013 - 10 Rev. A00

Regulatory model: P37G | Type: P37G001/P37G003

Computer model: Inspiron 3421/5421/3437/5437

## Dimensions

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Height (front and back):

Inspiron 3421 17.78 mm to 25.35 mm (0.70 inch to 1.00 inch)

Inspiron 5421 17.48 mm to 25.00 mm (0.69 inch to 0.98 inch)

Inspiron 3437 25.35 mm (1.00 inch)

Inspiron 5437 25.00 mm (0.98 inch)

Width 346.00 mm (13.62 inches)

Depth 245.00 mm (9.65 inches)

Weight (with 4-cell battery):

Inspiron 3421/3437 1.98 kg (4.37 lb)

Inspiron 5421/5437 1.95 kg (4.30 lb)

**NOTE:** The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.

## System Information

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Computer Model Inspiron 3437/5437/3421/5421

|                | 3437/5437   | 3421/5421   |
|----------------|---|---|
| Processor      | <ul style="list-style-type: none"><li>Intel Celeron Dual Core (4<sup>th</sup> generation)</li><li>Intel Pentium Dual Core (4<sup>th</sup> generation)</li><li>Intel Core i3 ULV (4<sup>th</sup> generation)</li><li>Intel Core i5 ULV (4<sup>th</sup> generation)</li><li>Intel Core i7 ULV (4<sup>th</sup> generation)</li></ul> | <ul style="list-style-type: none"><li>Intel Celeron Dual Core (3<sup>rd</sup> generation)</li><li>Intel Pentium Dual Core (3<sup>rd</sup> generation)</li><li>Intel Core i3 ULV (3<sup>rd</sup> generation)</li><li>Intel Core i5 ULV (3<sup>rd</sup> generation)</li><li>Intel Core i7 ULV (3<sup>rd</sup> generation)</li></ul> |
| L1 cache       | 64 KB   |   |
| L2 cache       | 256 KB  |   |
| L3 cache       | Up to 4 MB  |   |
| System chipset | Integrated in processor   | Intel HM76 chipset  |

## Memory

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Connectors Two internally-accessible SODIMM sockets

## Memory

Type:

Inspiron 3421/5421 Dual-channel DDR3

Inspiron 3437/5437 Dual-channel DDR3L

Speed Up to 1600 MHz

Configurations supported 2 GB, 4 GB, 6 GB, and 8 GB

## Ports and Connectors

Audio One headphone/microphone combo (headset) port

HDMI One HDMI port

Network adapter One RJ45 port

USB

- One USB 2.0 port (supports Windows debugging)
- Two USB 3.0 ports

Mini-card (internal) One half-size mini-card slot for Wi-Fi+BT combo

## Communications

Network adapter 10/100 Ethernet LAN on system board

Wireless

- Wi-Fi b/g/n
- Wi-Di (optional)
- Bluetooth 4.0

## Video

|             | Inspiron 3421/5421  | Inspiron 3437/5437  |
|-------------|---|---|
| Controller: |   |   |
| Integrated  | <ul style="list-style-type: none"><li>• Intel HD graphics 3000</li><li>• Intel HD graphics 4000</li></ul> | Intel HD graphics 4200/4400/5100 series   |
| Discrete    | <ul style="list-style-type: none"><li>• NVIDIA GeForce GT625M</li><li>• NVIDIA GeForce GT640M</li></ul>   | <ul style="list-style-type: none"><li>• NVIDIA GeForce GT720M</li><li>• NVIDIA GeForce GT740M</li><li>• NVIDIA GeForce GT750M</li></ul> |
| Memory:     |   |   |
| Integrated  | System shared memory  |   |
| Discrete    | Up to 2 GB  |   |

## Audio

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|                             |  |
|-----------------------------|--|
| Controller                  | Realtek ALC3223                                |
| Speaker                     | 2 x 2 W  |
| Internal microphone support | Single digital microphone in camera assembly   |
| Volume controls             | Program menus and keyboard media function keys |

## Storage

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|                  |   |
|------------------|---|
| Type             | SATA  |
| Interface        | <ul style="list-style-type: none"><li>• SATA 1.0 (1.5 Gb/s)</li><li>• SATA 2.0 (3 Gb/s)</li><li>• SATA 3.0 (6 Gb/s)</li></ul> |
| Hard drives      | One 2.5-inch SATA drive   |
| Optical drives   | One 9.5 mm SATA drive   |
| Drives supported | <ul style="list-style-type: none"><li>• DVD+/-RW</li><li>• Blu-ray RW</li></ul>   |

## Media-card reader

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|                 |  |
|-----------------|--|
| Type            | One 8-in-1 slot  |
| Cards supported | <ul style="list-style-type: none"><li>• SD card</li><li>• SD Hi-Capacity (SDHC) card</li><li>• SD Extended Capacity (SDXC) card with Ultra High Speed (UHS)</li><li>• Memory Stick</li><li>• Memory Stick PRO</li><li>• Memory Stick XC (MSXC)</li><li>• MultiMedia Card (MMC)</li><li>• MultiMedia Card plus (MMC+)</li></ul> |

## Display

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|      |  |
|------|--|
| Type | <ul style="list-style-type: none"><li>• 14.0-inch HD WLED with TrueLife (1366 x 768)</li><li>• 14.0-inch HD WLED with TrueLife (1366 x 768) - Touchscreen</li><li>• 14.0-inch anti-glare HD+ WLED with TrueLife (1600 x 900)</li></ul> |
|------|--|

### Dimensions:

|                              |                                  |
|------------------------------|----------------------------------|
| Height                       | 173.95 mm (6.85 inches)          |
| Width                        | 309.40 mm (12.18 inches)         |
| Diagonal                     | 355.60 mm (14.00 inches)         |
| Refresh rate                 | 60 Hz                            |
| Operating angle              | 0 degree (closed) to 135 degrees |
| Horizontal viewing angle     | 40 degrees/40 degrees            |
| Vertical viewing angle (H/L) | 10 degrees/30 degrees            |
| Pixel pitch                  | 0.2265 mm                        |

## Keyboard

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|      |                  |
|------|------------------|
| Type | Chiclet keyboard |
|------|------------------|

## Camera

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### Resolution:

|                        |                        |
|------------------------|------------------------|
| Still Image            | 0.92 megapixels        |
| Video (maximum)        | 1280 x 720 pixels (HD) |
| Diagonal viewing angle | 60 degrees             |

## Touchpad

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### Resolution:

|            |          |
|------------|----------|
| Horizontal | 1261 dpi |
| Vertical   | 1810 dpi |

### Dimensions:

|        |                         |
|--------|-------------------------|
| Height | 56.00 mm (2.20 inches)  |
| Width  | 100.00 mm (3.94 inches) |

## Battery

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|                         |   |                          |
|-------------------------|---|--------------------------|
| Type                    | <ul style="list-style-type: none"><li>• 4-cell "smart" lithium ion (40 WHr)</li><li>• 6-cell "smart" lithium ion (65 WHr)</li></ul>   |                          |
| Dimensions:             | <b>4-cell</b>   | <b>6-cell</b>            |
| Height                  | 20.00 mm (0.79 inch)  | 35.40 mm (1.39 inches)   |
| Width                   | 272.40 mm (10.72 inches)  | 272.40 mm (10.72 inches) |
| Depth                   | 46.30 mm (1.82 inches)  | 46.30 mm (1.82 inches)   |
| Weight                  | 0.26 kg (0.57 lb)   | 0.36 kg (0.79 lb)        |
| Voltage                 | 14.80 VDC   | 11.10 VDC                |
| Operating time          | Battery operating time varies depending on operating conditions and can significantly reduce under certain power-intensive conditions |                          |
| Life span (approximate) | 300 discharge/charge cycles   |                          |
| Temperature range:      |   |                          |
| Operating               | 0 °C to 35 °C (32 °F to 95 °F)  |                          |
| Storage                 | -40 °C to 65 °C (-40 °F to 149 °F)  |                          |
| Coin-cell battery       | CR-2032   |                          |

## Power Adapter

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|                             |   |
|-----------------------------|---|
| Type                        | <ul style="list-style-type: none"><li>• 65 W</li><li>• 90 W</li></ul> |
| Input voltage               | 100-240 VAC   |
| Input current (maximum)     | 1.50 A/1.60 A/1.70 A  |
| Input frequency             | 50 Hz-60 Hz   |
| Output current (continuous) | 3.34 A/4.62 A   |
| Rated output voltage        | 19.50 +/- 1 VDC   |
| Temperature range:          |   |
| Operating                   | 0 °C to 40 °C (32 °F to 104 °F)                                       |
| Storage                     | -40 °C to 70 °C (-40 °F to 158 °F)                                    |

## Computer Environment

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### Temperature range:

|           |                                    |
|-----------|------------------------------------|
| Operating | 0 °C to 35 °C (32 °F to 95 °F)     |
| Storage   | -40 °C to 65 °C (-40 °F to 149 °F) |

### Relative humidity (maximum):

|           |                               |
|-----------|-------------------------------|
| Operating | 10 % to 90 % (non-condensing) |
| Storage   | 10 % to 95 % (non-condensing) |

### Maximum vibration (Measured using a random vibration spectrum that simulates user environment):

|           |           |
|-----------|-----------|
| Operating | 0.66 GRMS |
| Storage   | 1.3 GRMS  |

### Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms half-sine pulse for storage):

|           |       |
|-----------|-------|
| Operating | 110 G |
| Storage   | 160 G |

### Altitude (maximum):

|           |   |
|-----------|---|
| Operating | -15.2 m to 3048 m (-50 ft to 10,000 ft)   |
| Storage   | -15.2 m to 10,668 m (-50 ft to 35,000 ft) |

|                            |                                  |
|----------------------------|----------------------------------|
| Airborne contaminant level | G1 as defined by ISA-S71.04-1985 |
|----------------------------|----------------------------------|