

System & Site Requirements for all Zprinter's

Each Printer Type listed requires the Recommended System to run ZPrint advanced operations such as part labeling and Fixture generation. **Laptops are not supported.** These system configurations may require a higher performance computer depending on file size and type. For complex models (>5 million facets) or for more than 25 parts in one build, follow the recommendations for High Performance Printers

Operating Systems

Operating System compatibility differs slightly for ZPrint/ZEdit and for ZEdit Pro. If you are specifying a new computer, we recommend Windows 7 Professional, 64-bit.

ZPrint/ZEdit

ZPrint version 7.9 and above and ZEdit version 3.2 and above are both compatible with:

- Windows XP Professional
- Windows Vista Business, Ultimate or Enterprise, 32-bit or 64-bit
- Windows 7 Professional or Ultimate, 32-bit or 64-bit

ZEdit Pro

Version 1.0 and above is compatible with:

- Windows XP Professional
- Windows Vista Business or Ultimate, 32-bit or 64-bit
- Windows 7 Professional or Ultimate, 32-bit or 64-bit

Note that both ZPrint and ZEdit Pro are 32-bit applications, and when run on a 64-bit operating system will operate in 32-bit mode.

Computer Hardware

The appropriate hardware set differs depending on which ZPrinter you wish to support. If you are specifying a new computer, follow the recommendations for High Performance Color Printers.

Monochrome Printers (ZPrinter 150, 310, 350)

Recommended System:

- Operating System: Any listed above
- Processor: Intel® Core2 or Core i5 series processor or better, dual (or more) cores; 2 Ghz or better
- Video: Open GL accelerated graphics card, 256MB or more of dedicated (not shared) graphics memory (see note below)
- Memory: 2 GB or better (Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
- Hard Drive: 1 GB of free space (plus space for model files)
- Ethernet 10/100/1000 Base T

Note: Intel built in graphics (e.g., Intel GMA and GMA HD) previous to the current version (HD Graphics 2000 and HD Graphics 3000) are not recommended due to performance and driver compatibility issues.

Color Printers (ZPrinter 250, 450)

Recommended System:

- Operating System: Any listed above
- Processor: Intel® Core2 or Core i5 series processor or better, dual (or more) cores; 2.5 Ghz or better
- Video: Open GL accelerated graphics card, 256MB or more of dedicated (not shared) graphics memory (see note below)
- Memory: 4 GB (Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
- Hard Drive: 1 GB of free space (plus space for model files)
- Ethernet 10/100/1000 Base T

Note: Intel built in graphics (e.g., Intel GMA and GMA HD) previous to the current version (HD Graphics 2000 and HD Graphics 3000) are not recommended due to performance and driver compatibility issues.

High Performance Color Printers (ZPrinter 650, Spectrum Z510)

Recommended System:

Operating System: 64-bit version of Windows 7 or Vista

Note: if using a 32-bit version of Windows, use 3GB tuning (see Microsoft KB articles #291988 and 316739)

Processor: Intel® Core i5 or i7 series processor, dual (or more) cores; 2.5 Ghz or better
Video: Separate graphics card (not Intel embedded graphics), 512 - 1024MB of dedicated (not shared) graphics memory and hardware Open GL acceleration (Examples: nVidia Quadro FX1800; ATI/AMD Radeon HD5750)
Memory: 4 GB (Note: If using a 64-bit version of Windows, 6-8 GB is recommended)
Hard Drive: 1 GB of free space (plus space for model files)
Ethernet 10/100/1000 Base T

ZPrinter 150 and 250, and Powder Recycling Station (PRS)

⌚ Printer Power requirements

○ Printer in operation

100 - 120V~, 50-60 Hz, 5.5 Amp.

230V~, 50-60 Hz, 2.75 Amp.

○ Printer in Sleep Mode - 48 W

100 - 120V~, 50-60 Hz, 0.4 Amp.

230V~, 50-60 Hz, 0.2 Amp.

⌚ PRS Power requirements

○ PRS in operation

100 - 120V~, 50-60 Hz, 1.4 Amp.

230V~, 50-60 Hz, 0.7 Amp.

○ PRS in Sleep Mode - 0.5 W

100 - 120V~, 50-60 Hz, 0.004 Amp.

230V~, 50-60 Hz, 0.002 Amp.

⌚ Printer dimensions

○ With top cover closed: 29" wide x 31" deep x 55" high (74cm wide x 79cm deep x 140cm high).

○ With top cover open: 29" wide x 31" deep x 72.3" high (74cm wide x 79cm deep x 183cm high).

⌚ PRS dimensions

○ With glass closed: 23" wide x 23" deep x 28" high (59cm wide x 59cm deep x 72cm high).

○ With glass open: 23" wide x 23" deep x 49" high (59cm wide x 59cm deep x 125cm high).

⌚ Printer weight

○ 365 pounds (165kg)

⌚ PRS weight

○ 51 pounds (23kg)

⌚ Ventilation

○ Printer: None

○ PRS: None

Post Processing:

- ⌚ Operating Conditions:
 - Ambient Temperatures:
 - Maximum Temp. Range: 50-85° F (10-29.4° C)
 - Recommended Temp. Range: 55-80° F (12.7-26.6°C)
 - Ambient Relative Humidity
 - Maximum RH Range: 15-70%, non-condensing
 - Recommended RH Range: 20-60%, non-condensing
 - May experience sub-optimal performance at extremes.

ZPrinter 310 Plus and ZD5 Depowderer

- ⌚ Power requirements
- Printer
 - 100V, 50-60Hz, 5.9A
 - 120V, 50-60Hz, 4.9A
 - 230V, 50-60Hz, 2.7A
 - ZD5 Depowderer: Vacuum
 - 120V, 60Hz, 7.0A
 - 230V, 50Hz, 3.5A
 - ZD5 Depowderer: Compressor
 - 220-240V, 50Hz, 1.7A
 - 230V, 60Hz, 1.3A
 - 115V, 60Hz, 3.5A

Approximately 54 watts are required when the printer is in Sleep mode.

- ⌚ Equipment dimensions
 - ZPrinter 310: 32.0" x 29.8" x 43.2" (81 x 76 x 110cm)
 - ZD5 Depowderer: 24" x 28" x 59.5" (62 x 72 x 152cm)
- ⌚ Weight
 - Printer: 370 pounds (168kg)
 - ZD5 Depowderer: 203 pounds (92kg)
- ⌚ Ventilation:
 - Printer: None
 - Powder Removal: None required

Post Processing

- ⌚ Operating Conditions:
 - 68 to 85°F (20 to 29°C)
 - 20 to 60% relative humidity, Non condensing

ZPrinter 350

- ⌚ Power requirements
 - Printer in operation
 - 100 - 120V, ~50-60 Hz, 7 Amp.
 - 230V, ~50 – 60 Hz, 4 Amp.
 - Printer in Sleep Mode – 48 W
 - 100 - 120V, ~50-60 Hz, 0.4 Amp.
 - 230V, ~50 – 60 Hz, 0.2 Amp.
- ⌚ Equipment dimensions
 - With top cover closed: 48" wide x 31" deep x 55" high. (122cm wide x 79cm deep x 140cm high)
 - With top cover open: 48" wide x 31" deep x 72.3" high. (122cm wide x 79cm deep x 183cm high)
- ⌚ Weight

- 425 pounds (193kg)
- ⌚ Ventilation:
 - Printer: None
 - Powder Removal: None required

Post Processing:

- ⌚ Operating Conditions:
 - Ambient Temperatures:
 - Maximum Temp. Range: 50-85° F (10 - 29.4° C)
 - Recommended Temp. Range: 55-80° F (12.7 - 26.6°C)
 - Ambient Relative Humidity
 - Maximum RH Range: 15 - 70%, non-condensing
 - Recommended RH Range: 20 - 60%, non-condensing
 - May experience sub-optimal performance at extremes.

ZPrinter 450

- ⌚ Power requirements
 - Printer
 - 100V, ~50-60Hz, 15A
 - 115V, ~50-60Hz, 15A
 - 240V, ~50-60Hz, 7.5A

Note: At 100-115V, a 20A circuit is required and the system ships with the appropriate 20A plug. Due to high amperage, a dedicated circuit is strongly recommended. Approximately 52 watts are required when the printer is in Sleep mode.

- ⌚ Equipment dimensions
 - 48.0" wide x 31" deep x 55" high (122 x 79 x 140cm)
- ⌚ Weight
 - 425 pounds (193kg)
- ⌚ Ventilation:
 - Printer: None
 - Powder Removal: None required

Post Processing:

- ⌚ Operating Conditions:
 - 55 to 80°F (13 to 27°C)
 - 20 to 60% relative humidity, Non condensing

Spectrum Z510 and ZD5 Depowderer

Power requirements

- Printer
 - 100VAC, 50-60Hz, 7.8A
 - 110-120VAC, 50-60Hz, 6.8A
 - 220-240VAC, 50-60Hz, 3.4A
 - ZD5 Depowderer Vacuum
 - 120V, 60Hz, 7.0A
 - 230V, 50Hz, 3.5A
 - ZD5 Depowderer Compressor
 - 220-240V, 50Hz, 1.7A
 - 230V, 60Hz, 1.3A
 - 115V, 60Hz, 3.5A

Approximately 63 watts are required when the printer is in Sleep mode.

- ⌚ Equipment dimensions
- Spectrum 510: 42.0" x 31.25" x 50.5" (107 x 79 x 128cm)
- Depowderer: 24" x 28" x 59.5" (62 x 72 x 152cm)

- ⌚ Weight
- Printer: 470 pounds (213 kg)
- ZD5 Depowderer: 203 pounds (92kg)

- ⌚ Ventilation:
- Printer: None
- Powder Removal: None required

Post Processing

- ⌚ Operating Conditions:
- 68 to 85°F (20 to 29°C)
- 20 to 60% relative humidity, Non condensing

ZPrinter 650

- ⌚ Power Requirements
- 100V, ~50-60 Hz, 15 Amp.
- 115V, ~50-60 Hz, 15 Amp.
- 230V, ~50-60 Hz, 8 Amp.

Note: At 100-115V, a 20A circuit is required and the system ships with the appropriate 20 A plug. Due to high amperage, a dedicated circuit is strongly recommended.

Approximately 78 watts are required when the printer is in Sleep mode.

- ⌚ Weight
- 750 lbs (340 kg)

- ⌚ Equipment Dimensions
- With top cover closed: Length 76" (193 cm) x Width 30" (76 cm) x Height 57" (145 cm)
- With top cover open: Length 76" (193 cm) x Width 36" (91 cm) x Height 74" (188 cm)

- Floor standing model on six casters. Two front casters are lockable.
- Full color capability; color shell thickness = .025".
- Integrated powder removal and vacuum units.

- ⌚ Crated Dimensions
- Length 86.25" (219.075cm) x Width 48" (121.92cm) x Height 63.5"(161.29cm)

- ⌚ Operating Conditions:
- Maximum Temp. Range: 50-80° F (10 – 26.6° C)
- Recommended Temp. Range: 55-75° F (12.7 – 23.9°C)
- Maximum RH Range: 15 - 60%, non-condensing
- Recommended RH Range: 20 - 55%, non-condensing

(May experience sub-optimal performance at extremes)

- ⌚ Noise Levels
- During Printing = 57dB
- Emptying Overflow = 66dB
- Vacuuming - Cover Open = 72dB
- Fine Powder Removal = 72dB

Post Processing