



**IDS NanoJet System  
Comparison Guide  
v1.1  
02.06.2026**



Feature	IDS Gen2 NanoJet FS Plus	IDS Gen2 NanoJet FS	IDS Gen2 NanoJet Subsystem	IDS Gen1 NanoJet FS Plus - Dual Material	IDS Gen1 NanoJet FS - Dual Material	IDS Gen2 NanoJet Desktop	IDS Gen1 NanoJet Desktop - Dual Material	IDS Gen1 NanoJet Subsystem - Dual Material
<b>Print Head Generation</b>	Gen2 (2024)	Gen2 (2024)	Gen2 (2024)	Gen1 - Dual Material	Gen1 - Dual Material	Gen2 (2024)	Gen1 - Dual Material	Gen1 - Dual Material
<b>Aerosol Control Software</b>	IDS Focus Control Software	IDS Focus Control Software	IDS Focus Control Software	3rd Party Software	3rd Party Software	IDS Focus Control Software	3rd Party Software	3rd Party Software
<b>Recipe Logging</b>	Included	Included	Included	Not Included	Not Included	Included	Not Included	Not Included
<b>Data Logging</b>	Included	Included	Included	Not Included	Not Included	Included	Not Included	Not Included
<b>Digitized Controls</b>	Fully-Digitized	Fully-Digitized	Fully-Digitized	Analog and Digital Controls	Analog and Digital Controls	Fully-Digitized	Analog and Digital Controls	Analog and Digital Controls
<b>Motion Control Software</b>	FlashCut 9	FlashCut 9	Not Included	FlashCut 9	FlashCut 9	FlashCut 9	FlashCut 9	Not Included
<b>Motion Control</b>	G-Code	G-Code	G-Code	G-Code	G-Code	G-Code	G-Code	G-Code
<b>Heated Vacuum Platen Size</b>	300 x 300 mm	300 x 300 mm	Not included (can be purchased as an accessory separately)	300 x 300 mm	300 x 300 mm	150 x 150 mm	150 x 150 mm	Not included (can be purchased as an accessory)
<b>Heated Vacuum Platen Temperature Range</b>	120 C Max Temperature	120 C Max Temperature	N/A	120 C Max Temperature	120 C Max Temperature	120 C Max Temperature	120 C Max Temperature	N/A
<b>X &amp; Y Axis Motion Range</b>	400 x 300 mm	400 x 300 mm	Not Included	400 x 300 mm	400 x 300 mm	300 x 200 mm	300 x 200 mm	Not Included
<b>Z Axis Motion Range</b>	100 mm	100 mm	Not Included	100 mm	100 mm	50 mm	50 mm	Not Included

Feature	IDS Gen2 NanoJet FS Plus	IDS Gen2 NanoJet FS	IDS Gen2 NanoJet Subsystem	IDS Gen1 NanoJet FS Plus - Dual Material	IDS Gen1 NanoJet FS - Dual Material	IDS Gen2 NanoJet Desktop	IDS Gen1 NanoJet Desktop - Dual Material	IDS Gen1 NanoJet Subsystem - Dual Material
<b>Alignment Accuracy*</b>	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ±1.5 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ±1.5 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ± 3.1 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ± 3.1 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	N/A	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ±1.5 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ±1.5 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ± 3.1 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ± 3.1 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ± 3.1 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ± 3.1 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	<ul style="list-style-type: none"> <li>- Offset definition (motion system): ± 3.1 µm</li> <li>- Offset definition (user): Technician dependent (~±5 µm)</li> <li>- Print zero location (motion system): ± 3.1 µm</li> <li>- Print zero location (user): Technician dependent (~±5 µm)</li> </ul>	N/A
<b>Gantry Style</b>	Welded Steel Gantry	Aluminum Gantry	Not Included	Welded Steel Gantry	Aluminum Gantry	Aluminum Gantry	Aluminum Gantry	Not Included
<b>Computer</b>	High-Performance	Standard	Not Included	High-Performance	Standard	Not Included	Not Included	Not Included
<b>Computer Specs</b>	<ul style="list-style-type: none"> <li>- Processor: I7 intel 8th gen (whiskey lake-u) core embedded lifecycle</li> <li>- Memory: 16 GB so-dimm ddr4 3200</li> <li>- Primary storage drive: 512 GB m.2 22x60 MLC SSD</li> <li>- Wireless connectivity: Intel embedded wireless-ac 9260 802.11ac Wi-Fi &amp; BT 5.1 card</li> <li>- Antennas for Wi-Fi, Bluetooth, or 4g LTE: 2 x wi-fi - dual band terminal</li> <li>- Antenna, 161 mm (6.34")</li> <li>- Serial port expansion: rs-232 com port header cable - at/everex</li> <li>- Operating System: Windows 10 IOT Enterprise</li> </ul>	<ul style="list-style-type: none"> <li>- Processor: I5 intel 8th gen (whiskey lake-u) core embedded lifecycle</li> <li>- Memory: 8 GB so-dimm ddr4 3200</li> <li>- Primary storage drive: 256 GB m.2 22x60 MLC SSD</li> <li>- Wireless connectivity: Intel embedded wireless-ac 9260 802.11ac Wi-Fi &amp; BT 5.1 card</li> <li>- Antennas for Wi-Fi, Bluetooth, or 4g LTE: 2 x wi-fi - dual band terminal</li> <li>- Antenna, 161 mm (6.34")</li> <li>- Serial port expansion: rs-232 com port header cable - at/everex</li> <li>- Operating System: Windows 10 IOT Enterprise</li> </ul>	N/A	<ul style="list-style-type: none"> <li>- Processor: I7 intel 8th gen (whiskey lake-u) core embedded lifecycle</li> <li>- Memory: 16 GB so-dimm ddr4 3200</li> <li>- Primary storage drive: 512 GB m.2 22x60 MLC SSD</li> <li>- Wireless connectivity: Intel embedded wireless-ac 9260 802.11ac Wi-Fi &amp; BT 5.1 card</li> <li>- Antennas for Wi-Fi, Bluetooth, or 4g LTE: 2 x wi-fi - dual band terminal</li> <li>- Antenna, 161 mm (6.34")</li> <li>- Serial port expansion: rs-232 com port header cable - at/everex</li> <li>- Operating System: Windows 10 IOT Enterprise</li> </ul>	<ul style="list-style-type: none"> <li>- Processor: I5 intel 8th gen (whiskey lake-u) core embedded lifecycle</li> <li>- Memory: 8 GB so-dimm ddr4 3200</li> <li>- Primary storage drive: 256 GB m.2 22x60 MLC SSD</li> <li>- Wireless connectivity: Intel embedded wireless-ac 9260 802.11ac Wi-Fi &amp; BT 5.1 card</li> <li>- Antennas for Wi-Fi, Bluetooth, or 4g LTE: 2 x wi-fi - dual band terminal</li> <li>- Antenna, 161 mm (6.34")</li> <li>- Serial port expansion: rs-232 com port header cable - at/everex</li> <li>- Operating System: Windows 10 IOT Enterprise</li> </ul>	N/A	N/A	N/A
<b>Monitor, Keyboard, and Mouse</b>	Included	Included	Not Included	Included	Included	Not Included	Not Included	Not Included

\*The alignment capability is controlled by the accuracy of the stages, the ability of the user to set the offset between alignment camera and print nozzle, and the ability of the user to set the zero location.

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<b>Alignment Camera</b>	<ul style="list-style-type: none"> <li>- Resolution: 5.0 MP (2592 × 1944 pixels)</li> <li>- Magnification Range: 130x – 220x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Coaxial Lighting</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 1.3 MP (1280 x 960 pixels)</li> <li>- Magnification Range: 10x – 140x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Polarization</li> </ul>	Not Included	<ul style="list-style-type: none"> <li>- Resolution: 5.0 MP (2592 × 1944 pixels)</li> <li>- Magnification Range: 130x – 220x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Coaxial Lighting</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 1.3 MP (1280 x 960 pixels)</li> <li>- Magnification Range: 10x – 140x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Polarization</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 1.3 MP (1280 x 960 pixels)</li> <li>- Magnification Range: 10x – 140x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Polarization</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 1.3 MP (1280 x 960 pixels)</li> <li>- Magnification Range: 10x – 140x</li> <li>- Features: Flexible LED Control (FLC), Automatic Magnification Reading (AMR), and Polarization</li> </ul>	Not Included
<b>Process Camera</b>	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	Not Included	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	<ul style="list-style-type: none"> <li>- Resolution: 12.0 MP</li> <li>- Magnification Range: 1x - 500x</li> </ul>	Not Included
<b>Optional Second Print Head</b>	Secondary Gen2 Print Head Available	Secondary Gen2 Print Head Available	Secondary Gen2 Print Head Available	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Optional Laser</b>	<ul style="list-style-type: none"> <li>- 445 nm 2000 mW Blue Fiber coupled integrated laser processing module</li> <li>- Simultaneous and serial laser processing capabilities</li> <li>- Laser-safe paneling</li> <li>- Laser-safe goggles</li> </ul>	<ul style="list-style-type: none"> <li>- 445 nm 2000 mW Blue Fiber coupled integrated laser processing module</li> <li>- Simultaneous and serial laser processing capabilities</li> <li>- Laser-safe paneling</li> <li>- Laser-safe goggles</li> </ul>	<ul style="list-style-type: none"> <li>- 445 nm 2000 mW Blue Fiber coupled integrated laser processing module</li> <li>- Simultaneous and serial laser processing capabilities</li> <li>- Laser-safe goggles</li> </ul>	<ul style="list-style-type: none"> <li>- 445 nm 2000 mW Blue Fiber coupled integrated laser processing module</li> <li>- Simultaneous and serial laser processing capabilities</li> <li>- Laser-safe paneling</li> <li>- Laser-safe goggles</li> </ul>	<ul style="list-style-type: none"> <li>- 445 nm 2000 mW Blue Fiber coupled integrated laser processing module</li> <li>- Simultaneous and serial laser processing capabilities</li> <li>- Laser-safe paneling</li> <li>- Laser-safe goggles</li> </ul>	Not Available	Not Available	Not Available
<b>Optional UV</b>	<ul style="list-style-type: none"> <li>- UV Wavelength: 365±5 nm</li> <li>- Optical Power Density (4mm spot): 2.5 – 5.5 W/cm2</li> <li>- Optical Power Density (25mm spot): 100 – 150 mW/cm2</li> <li>- Cure Time Range: 10 s to 60 min</li> <li>- Cooling Method: Fan</li> <li>- Operation Life: &gt;25,000 hr</li> </ul>	<ul style="list-style-type: none"> <li>- UV Wavelength: 365±5 nm</li> <li>- Optical Power Density (4mm spot): 2.5 – 5.5 W/cm2</li> <li>- Optical Power Density (25mm spot): 100 – 150 mW/cm2</li> <li>- Cure Time Range: 10 s to 60 min</li> <li>- Cooling Method: Fan</li> <li>- Operation Life: &gt;25,000 hr</li> </ul>	<ul style="list-style-type: none"> <li>- UV Wavelength: 365±5 nm</li> <li>- Optical Power Density (4mm spot): 2.5 – 5.5 W/cm2</li> <li>- Optical Power Density (25mm spot): 100 – 150 mW/cm2</li> <li>- Cure Time Range: 10 s to 60 min</li> <li>- Cooling Method: Fan</li> <li>- Operation Life: &gt;25,000 hr</li> </ul>	<ul style="list-style-type: none"> <li>- UV Wavelength: 365±5 nm</li> <li>- Optical Power Density (4mm spot): 2.5 – 5.5 W/cm2</li> <li>- Optical Power Density (25mm spot): 100 – 150 mW/cm2</li> <li>- Cure Time Range: 10 s to 60 min</li> <li>- Cooling Method: Fan</li> <li>- Operation Life: &gt;25,000 hr</li> </ul>	<ul style="list-style-type: none"> <li>- UV Wavelength: 365±5 nm</li> <li>- Optical Power Density (4mm spot): 2.5 – 5.5 W/cm2</li> <li>- Optical Power Density (25mm spot): 100 – 150 mW/cm2</li> <li>- Cure Time Range: 10 s to 60 min</li> <li>- Cooling Method: Fan</li> <li>- Operation Life: &gt;25,000 hr</li> </ul>	Not Available	Not Available	Not Available