

## Figure 4<sup>™</sup> Standalone

Affordable and compact industrial-grade solution for lower cost production parts



## **Figure 4 Standalone**

| Build Volume (xyz)         124.8 x 70.2 x 196 mm (4.9 x 2.8 x 7.7 in)           Max Resolution         1920 x 1080 pixels           Pixed Pitch         6 5 microns (0.0025 in) (390.8 effective PPI)           Wavelength         405 mm           Build Materials         UV curable plastics: Figure 4 TOUGH-GRY 10, Figure 4 TOUGH-GRY 15, Figure 4 ELAST-BLK 10, Figure 4 JCAST-GRN 10           Material Packaging         1 82.8 °C (64.82 °F)           Operating Environment Purportating Environment Purportation 200 Profession (1900 Profession Profession Uncerted 200 Profession Profession Uncerted 200 Profession Environment Profession Uncerted 200 Profession Environment Profession Uncerted 200 Profession Environment Profession Uncerted 200 Professi  |   | Figure 4 Standaione  |  |  |  |
|--|---|--|--|--|--|
| Picke   Pitch   65 microns (0.0025 in) (390.8 effective PPI)   | Build Volume (xyz)  | 124.8 x 70.2 x 196 mm (4.9 x 2.8 x 7.7 in)   |  |  |  |
| Wavelength         405 nm           Build Materials         UV curable plastics: Figure 4 TOUGH-GRY 10, Figure 4 TOUGH-GRY 15, Figure 4 ELAST-BLK 10, Figure 4 JCAST-GRN 10           Material Packaging         1kg bottles for manual pour           Operating Environment<br>Temperature<br>Humidity (RH)         18-28°C (64-82°F)           Electrical         100-240 VAC, 50/60 Hz, Single Phase, 4.0A           Dimensions (WXDXH)<br>3D Printer crated<br>Pedestal crated<br>3D Printer uncrated<br>3D Printer uncrated<br>3D Printer uncrated<br>3D Printer uncrated<br>42.5 x 48.9 x 971. cm (16.7 x 19.25 x 38.22 m)           Weight<br>Pedestal crated<br>3D Printer uncrated<br>3D Printer with Pedestal uncrat   | Max Resolution  | 1920 x 1080 pixels   |  |  |  |
| Material Packaging   | Pixel Pitch   | 65 microns (0.0025 in) (390.8 effective PPI)   |  |  |  |
| National Packaging   1kg bottles for manual pour   | Wavelength  | 405 nm   |  |  |  |
| Operating Environment<br>Temperature<br>Humidity (RH)         18-28°C (64-82°F)<br>20-80%           Electrical         100-240 VAC, 50/60 Hz, Single Phase, 4.0A           Dimensions (WxDxH)<br>3D Printer vinted<br>Pedestal crated<br>3D Printer undrated<br>3D Printer undrated<br>3D Printer vint Pedestal uncrated<br>Pedestal crated<br>3D Printer vint Pedestal uncrated<br>3D Connect Capable<br>3D Connect Service provides a secure cloud-based connection to 3D Systems service<br>teams for proactive and preventative support.<br>3D Connect Service provides a secure cloud-based connection to 3D Systems service<br>teams for proactive and preventative support.<br>3D Connect Service provides a secure cloud-based connection to 3D Systems service<br>teams for proactive and preventative support.<br>4D Connectivity<br>4D Connect Service provides a secure cloud-based connection to 3D Systems service<br>teams for proactive and preventative support.<br>4D Connectivity<br>4D Connect Service provides a secure cloud-based connection to 3D Systems service<br>teams for proactive and preventative support.<br>4D Connectivity<br>4D Connect Service provides a secure cloud-based connection to 3D Systems Los and Castal Los vinini), 1 GB video RAM or more (4 GB mini)<br>4D Connectivity<br>4D Connectivity<br>4D Connectivity<br>4D Connectivity<br>4D Connectivity<br>4D Connection to 3D Connect Service provides a secure cloud-based connection t | Build Materials   | UV curable plastics: Figure 4 TOUGH-GRY 10, Figure 4 TOUGH-GRY 15, Figure 4 ELAST-BLK 10, Figure 4 JCAST-GRN 10  |  |  |  |
| Temperature Humidity (RH)         18-28 °C (64-82 °F) 20-80%           Electrical         100-240 VAC, 50/60 Hz, Single Phase, 4.0A           Dimensions (WxDxH)         73.66 x 68.58 x 129.54 cm (29 x 27 x 51 in) Protect cated Pedestal crated 3D Printer uncrated 3D Printer uncrated 3D Printer uncrated 3D Printer uncrated 42.6 x 48.9 x 97.1 cm (16.7 x 19.25 x 38.22 in) 42.6 x 48.9 x 49.2   | Material Packaging  | 1kg bottles for manual pour  |  |  |  |
| Dimensions (WxDxH) 3D Printer crated Pedestal crated Pedestal crated Pedestal crated Pedestal crated Pedestal crated 3D Printer uncrated 3D Printer uncrated 3D Printer uncrated 3D Printer uncrated 3D Printer rotated Pedestal crated 3D Printer rotated Pedestal crated 3D Printer rotated Pedestal crated 3D Printer uncrated 3D Printer with Pedestal uncrated 3D Printer with Pedestal uncrated 3D Printer uncrated 3D Printer with Pedestal uncrated 3D Connect Capable Easy build job set-up, submission and job queue management; Automatic part placement and build optimization tools; Part nesting capability; part editing tools; Automatic support generation; job statistics 3D Connect Manage helps customers manage and monitor equipment with anytime, anywhere access to print jobs, system performance metrics and usage.  Connectivity  10/100/1000 Ethernet Interface  Client Hardware Recommendation  3 GHz multiple core processor (2 GHz Intel® or AMD® processor mini) with 8 GB RAM or more (4 GB mini) OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher OpenGL 3.2 first first with processor mini with a polication  Client Operating System  Windows* 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)  | Temperature   |  |  |  |  |
| 3D Printer crated Pedestal crated   32.5 x Pos. 375 x 55.245 m. (32 x x 15 in)   Pedestal crated   33D Printer uncrated   34.6 x 48.9 x 9.7 1 cm (16.7 x 19.25 x 38.22 in)   42.6 x 48.9 x 9.7 1 cm (16.7 x 19.25 x 39.25 x 39  | Electrical  | 100-240 VAC, 50/60 Hz, Single Phase, 4.0A  |  |  |  |
| 3D Frinter crated Pedestal crated 3D Printer uncrated 3D Printer uncrated 3D Printer with Pedestal uncrated 3D Sprint™ Software  Easy build job set-up, submission and job queue management, Automatic part placement and build optimization tools; Part nesting capability; part editing tools; Automatic support generation; Job statistics  3D Connect Capable  3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for proactive and preventative support. 3D Connect Manage helps customers manage and monitor equipment with anytime, anywhere access to print jobs, system performance metrics and usage.  Connectivity  10/100/1000 Ethernet Interface  Client Hardware Recommendation  • 3 GHz multiple core processor (2 GHz Intel® or AMD® processor mini) with 8 GB RAM or more (4 GB mini) • OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher • SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache) • Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini) • Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application  Client Operating System  Windows® 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Includes part finishing tools accessory kit;  Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)  | 3D Printer crated<br>Pedestal crated<br>3D Printer uncrated | 82.55 x 79.375 x 55.245 cm (32.5 x 31.25 x 21.75 in)<br>42.6 x 48.9 x 97.1 cm (16.7 x 19.25 x 38.22 in)  |  |  |  |
| Part nesting capability; part editing tools; Automatic support generation; Job statistics  3D Connect Service provides a secure cloud-based connection to 3D Systems service teams for proactive and preventative support.  3D Connect Manage helps customers manage and monitor equipment with anytime, anywhere access to print jobs, system performance metrics and usage.  Connectivity  10/100/1000 Ethernet Interface  Client Hardware Recommendation  • 3 GHz multiple core processor (2 GHz Intel® or AMD® processor mini) with 8 GB RAM or more (4 GB mini) • OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher • SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache) • Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini) • Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application  Client Operating System  Windows® 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Includes part finishing tools accessory kit;  Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)   | 3D Printer crated<br>Pedestal crated<br>3D Printer uncrated | 26.3 kg (58 lbs)<br>34.5 kg (76 lbs)   |  |  |  |
| teams for proactive and preventative support.  3D Connect Manage helps customers manage and monitor equipment with anytime, anywhere access to print jobs, system performance metrics and usage.  Connectivity  10/100/1000 Ethernet Interface  3 GHz multiple core processor (2 GHz Intel® or AMD® processor mini) with 8 GB RAM or more (4 GB mini) OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache) Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini) Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application  Client Operating System  Windows® 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Post-Processing  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)  | 3D Sprint™ Software   |  |  |  |  |
| Client Hardware Recommendation  3 GHz multiple core processor (2 GHz Intel® or AMD® processor mini) with 8 GB RAM or more (4 GB mini) OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache) Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini) Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application  Client Operating System  Windows® 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)  | 3D Connect Capable  | teams for proactive and preventative support.  3D Connect Manage helps customers manage and monitor equipment with anytime,  |  |  |  |
| OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher     SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache)     Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini)     Other: 3 button mouse with scroll, keyboard, Microsoft .NET Framework 4.6.1 installed with application  Client Operating System  Windows® 7 and newer (64-bit OS)  Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)   | Connectivity  | 10/100/1000 Ethernet Interface   |  |  |  |
| Input Data File Formats Supported  STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP and X_T  Post-Processing  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)  | Client Hardware Recommendation                              | <ul> <li>OpenGL 3.2 and GLSL 1.50 support (OpenGL 2.1 and GLSL 1.20 mini), 1 GB video RAM or more, 1280 x 1024 (1280 x 960 mini) screen resolution or higher</li> <li>SSD or 10,000 RPM hard disk drive (minimum requirement of 7 GB of available hard-disk space, additional 3 GB free disk space for cache)</li> <li>Google Chrome or Internet Explorer 11 (Internet Explorer 9 mini)</li> </ul> |  |  |  |
| Post-Processing  Includes part finishing tools accessory kit; Requires optional 3D Systems LC-3DPrint Box UV post-curing unit or other UV-curing unit  Accessories  LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)   | Client Operating System                                     | Windows® 7 and newer (64-bit OS)   |  |  |  |
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|  | Post-Processing   |  |  |  |  |
| <b>Certifications</b> FCC, CE, EMC   | Accessories   | LC-3DPrint Box UV post-curing unit (option, not included), Pedestal (included)   |  |  |  |
|  | Certifications  | FCC, CE, EMC   |  |  |  |

## Figure 4<sup>™</sup> Materials for Figure 4 Standalone

A variety of robust, production-grade materials

The production-grade materials available for Figure 4 Standalone include a broad and expanding range of industrial materials, including tough production, fast prototyping, cast and elastomeric materials.









Figure 4 TOUGH-GRY 10

Figure 4 TOUGH-GRY 15

Figure 4 ELAST-BLK 10

Figure 4 JCAST-GRN 10

| Properties  | Condition  | Figure 4 TOUGH-GRY 10           | Figure 4 TOUGH-GRY 15           | Figure 4 ELAST-BLK 10 | Figure 4 JCAST-GRN 10 |
|---|------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Viscosity (cps)   | at 25 °C   | 490                             | 780                             | 1200                  | 190                   |
| Color   |            | Dark Gray                       | Gray                            | Black                 | Green                 |
| Solid Density (g/cm³)   | at 25 °C   | 1.11                            | 1.12                            | 1.13                  | 1.18                  |
| Liquid Density (g/cm³)  | at 25 °C   | 1.04                            | 1.04                            | 1.06                  | 1.09                  |
| Package Volume  |            | 1 kg bottle                     | 1 kg bottle                     | 1 kg bottle           | 1 kg bottle           |
| Layer Thickness (mm)<br>Standard Mode                               |            | 0.05                            | 0.05                            | 0.10                  | 0.02                  |
| Vertical Build Speed<br>Standard Mode (mm/hr)<br>Draft Mode (mm/hr) |            | 78<br>104                       | 41<br>68                        | 47<br>NA              | 8<br>NA               |
| Tensile Strength (MPa)  | ASTM D638  | 50                              | 48                              | 3.6                   | 13.7                  |
| Tensile Modulus (MPa)   | ASTM D638  | 2180                            | 2120                            | 3.6                   | 262                   |
| Elongation at Break   | ASTM D638  | 25%                             | 35%                             | 83%                   | 12%                   |
| Elongation at Yield   | ASTM D638  | 4%                              | 4%                              | NA                    | NA                    |
| Flexural Strength (MPa)   | ASTM D790  | 75                              | 73                              | NA                    | NA                    |
| Flexural Modulus (MPa)  | ASTM D790  | 2070                            | 1960                            | NA                    | NA                    |
| Notched Izod Impact<br>Strength (J/m)                               | ASTM D256  | 29                              | 32                              | NA                    | NA                    |
| Unnotched Izod Impact<br>Strength (J/m)                             | ASTM D4812 | 598                             | 599                             | NA                    | NA                    |
| Heat Deflection Temperature<br>at 0.45 MPa<br>at 1.82 MPa"          | ASTM D648  | 59 °C<br>51 °C                  | 59 °C<br>51 °C                  | NA<br>NA              | NA<br>NA              |
| Coefficient of Thermal<br>Expansion (ppm/°C)<br>< Tg<br>> Tg        | ASTM E831  | 93<br>165                       | 96<br>158                       | NA<br>NA              | NA<br>143             |
| Tear Strength (kN/m)  | ASTM D624  | NA                              | NA                              | 11                    | NA                    |
| Compression Set   | ASTM D395  | NA                              | NA                              | 0.87%                 | NA                    |
| Glass Transition (Tg)   | DMA, E"    | 58 °C                           | 55 ℃                            | -26 °C                | NA                    |
| Hardness, Shore   | ASTM D2240 | 81D                             | 82D                             | 65A                   | 68D                   |
| Water Absorption  | ASTM D570  | 0.34%                           | 0.37%                           | 1.4%                  | 1.3%                  |
| Description   |            | High-speed,<br>production rigid | Economical,<br>production rigid | Design elastomer      | Jewelry castable      |

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