



**INTELLIGENT
MICRO PATTERNING, LLC**

Maskless Lithography Customized to Your Requirements and Budget

Since we rolled our company out in July, 2001, Intelligent Micro Patterning has been a leading provider of maskless lithography equipment to a number of served market areas. Our customers vary greatly and include Fortune 100 R&D Centers, leading university researchers around the world, and smaller commercial companies who able to recognize the value provided by our patented Smart Filter Technology. We have been greatly improving our equipment over the years and now provide systems that can pattern features as small as 1 micron in size, offer fully integrated systems which include features such as automated focussing and level to level alignment, and provide fully customized services for your most challenging applications. Our latest product offerings serve a range of customers, starting with those that need basic, low cost processing capabilities, to more seasoned users who need systems that provide high levels of capability, integrateability, and sophistication.

Whichever System You Choose, Your SF-100 Will Provide Many Standard Features...

- Mercury arc lamp provides standard g-, h-, and i-line energies for compatibility with most commercial photoresists, polyimides, and SU8. Ensures low operational cost, typically less than \$2000 per year.
- Field proven optical design integrated with patented Smart Filter Technology.
- Integrated CCD camera for in-line substrate viewing, supporting standard optical functions, such as autofocusing, level to level alignment, and character recognition.
- An enormous range of stage options that can handle many different substrate sizes, materials, and shapes.
- Labwindows™ based software integrates all systems functions, while providing an open platform for software customization and integration with other systems.
- Labwindows™ based Vision Developers Module provides the basis for all camera functions on the system, ensuring reliability and ease of customization.
- Full field upgradability to other **SF-100** maskless lithography systems.
- Rapid prototyping of new designs and ideas without the need for costly photomasks.
- IMP's legendary customer service, engineering, and support services ensure your success.
- Unlimited phone/email support for the life of your system, complete 1 year warranty and customer training taught by a fully certified IMP field service engineer.

Choose Your System, Based on Your Needs & Budget

| | SF-100 XCEL | SF-100 XPRESS | SF-100 XTREME | SF-100 XTEND |
|-----------------|---|--|--|--|
| Optics | Choose standard optics with a pixel size of 15 micron (with optional 3X reduction lens for 5 micron pixels) or high resolution optics for a pixel size of 1.25 micron. | High resolution optics with single reduction lens to provide for features as small as 1 micron. Other reduction lenses and standard optics available as options. | High resolution optics with all three reduction lenses to provide for features as small as 1 micron. Standard optics available as options. | 2 optical paths provided. Standard optics and high resolution optics with single reduction lens are standard. Other reduction optics available as options. |
| Stage | Choose the stage option that best meets your needs: <ul style="list-style-type: none"> • No stage • Manual stage • 100mm automated piezo electric stage. | Automated XYZ linear drive stage is provided as standard. Theta and larger stages available as options. | Automated XYZ and theta stages are standard. Larger stages available as options. | Automated XYZ and theta stages are standard. Larger stages available as options. |
| Exposure | Customer specified wavelength for exposure. Integrated filter wheel provides customization and power control at substrate. | Customer specified wavelength for exposure. Integrated filter wheel provides customization and power control at substrate. | Customer specified wavelength for exposure. Integrated filter wheel provides customization and power control at substrate. | Customer specified wavelength for exposure on each optical path. Integrated filter wheel provides customization and power control at substrate. |
| Platform | Tabletop installation of system. | Customer can supply vibration isolation table or one can be purchased as system option. | Vibration isolation table is included as standard. Benchtop vibration isolation is available as system option. | Vibration isolation table is provided as standard. |
| Size | System footprint is approximately 3.5 feet x 2 feet. | System footprint is 5 feet wide by 2 feet deep. | System footprint is 5 feet wide by 3 feet deep. | System footprint is 6 feet wide by 3 feet deep. |
| Support | Unlimited phone/email support. System qualified at IMP factory and installed at customer site by IMP certified field service engineer. | Unlimited phone/email support. System qualified at IMP factory and installed at customer site by IMP certified field service engineer. | Unlimited phone/email support. System qualified at IMP factory and installed at customer site by IMP certified field service engineer. | Unlimited phone/email support. System qualified at IMP factory and installed at customer site by IMP certified field service engineer. |

Contact your local sales representative for more information on any **SF-100** Product



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