

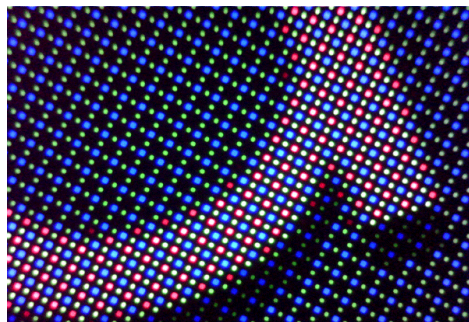
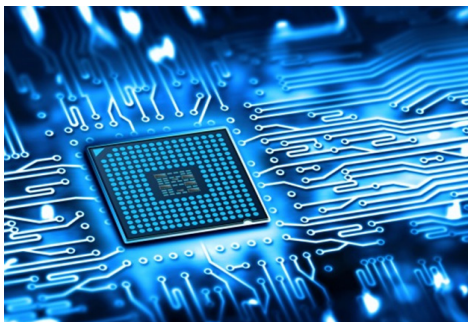
LASER LINE AUTO FOCUS & TRACKING

- **New** laser and projection optics
- **Enhanced** surface recognition
- **Greater** integration tolerance
- **Improved** linearity
- **Upgraded** software features
- **Capable** of laser & video auto focus
- **Backward compatible** with ATF6



Excellent for Standard and Advanced Microscopy Automation Applications

WDI's newest version of its industry leading autonomous auto focus sensor (ATF) technology is the ATF6.5. Driven by customer demands for higher speed, greater accuracy and more flexibility for wider variety of applications the ATF6.5 sensor includes significant improvements in hardware, functionality and software. The ATF6.5's new laser diode and projection optics have resulted in an extended capture range and improvements in both linearity and alignment tolerance. The sensor now also features advanced surface recognition, multi plane auto focus and video focus. WDI's ATF technology is used worldwide in many environments including flat panel display, electronics and semiconductor manufacturing. Our ATF technology is also found in biomedical research and imaging automation applications.



IMPROVED LASER AND OPTICS

The new more powerful multi mode laser diode provides **12 times the laser output power** from the sensor. Coupled with the new laser are improved laser projection and pattern shaping optics. The result is a **more uniform projected laser line which is 2 times longer as well as 4 times wider** at the objective aperture. These changes mean dramatically increased auto focus robustness, greater immunity to parasitic and other interference and relaxed alignment sensitivity.

SOFTWARE IMPROVEMENTS

The ATF6.5 software has been refined to include **both “Laser Line” and “Video” auto focus** adding further flexibility to the sensor. In conjunction with this are new features such as “Set Reference” which allows the sensor to automatically focus on a predefined offset from zero and “System Tune” which permits the automatic setting of advanced configuration parameters making integration faster and easier than ever.

WDI designs, engineers and manufactures innovative microscopy automation solutions. Solutions include OEM components as well as complete optomechanical and optoelectronic sub-systems. Our products range from compact auto focus sensors and automated microscopy modules to end user IR imaging systems. WDI's technology helps individuals and companies in a wide variety of industries including Life Science, Biomedical Imaging, Machine Vision and Electronics/Semiconductor Manufacturing. Our solutions are currently used by well know organizations such as Intel, Corning, Apple, Samsung and LG.



www.wdidevice.com

WDI Wise Device Inc.

135 West Beaver Creek Road, Unit 2
Richmond Hill, Ontario, L4B 1C6
p. 905 415 2734 e. sales@wdidevice.com



光技術をサポートする
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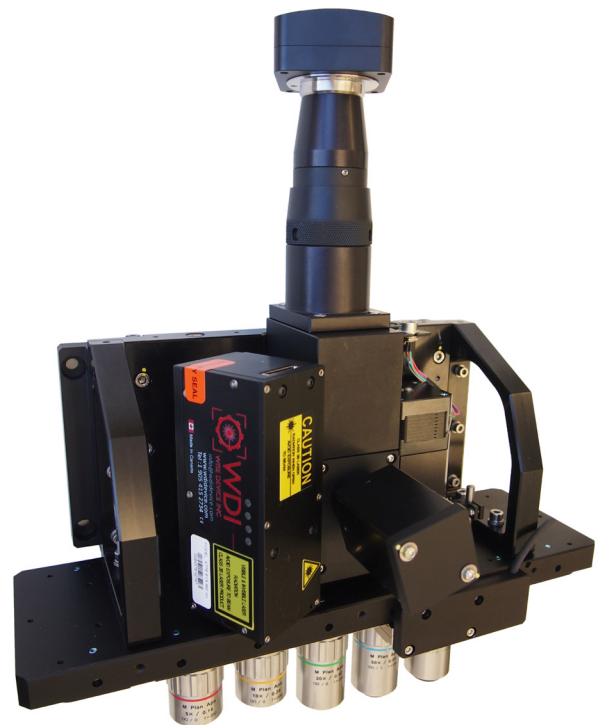
<http://www.optoscience.com>

EXTENDED CAPTURE RANGE

The **3 times capture range increase** means that it is now possible to switch from low magnification to high magnification with no resulting focus delay. The improvement has also made formally optional features such as “Cell”, “Advanced Surface Recognition” and “Multi Plane Auto focus” standard. Furthermore 50X surface recognition can now easily be achieved, making the ATF6.5 the most advanced microscopy auto focus technology available today.

INTEGRATION AND LINEARITY

A **50% increased standoff distance**, from 200mm to over 300mm, from the ATF6.5 sensor to the objective has led to less sensitivity with regards to alignment and interference. The ATF6.5 also features improved linearity which further reduces sensitivity to alignment. The linearity improvement also means easier more reliable operation and improved compensation for UV, NIR and other objective offsets.



東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング TEL:03-3356-1064
大阪営業所 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06-6305-2064
名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052-569-6064

E-mail : info@optoscience.com