



# MEDCO FORUM®

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## OLYMPUS HIGH DEFINITION IMAGING AND DISTAL CHIP TECHNOLOGY

### *Stepping Into Next Generation Laparoscopes*

With the development of its HD Video Laparoscopes, **Olympus Surgical America (Orangeburg, NY)**, has taken laparoscopic surgery to the next level. Olympus has revolutionized minimally invasive surgery with the picture-perfect imaging performance of its autoclavable and fully integrated **HD EndoEYE™ Video Laparoscopes**. The key to its advanced technology is the integration of a light-guide cable and camera head via a distally-mounted, high definition video chip inside the scope that provides the outstanding HD imaging quality. By eliminating the optical components of a traditionally designed camera head and telescope, Olympus has created a durable, all-in-one scope with operating efficiency and reprocessing abilities that will further improve performance and save time during surgery. The lightweight HD EndoEYE, with applications for both diagnostic and therapeutic gynecological applications, provides the convenience of both auto-focus and digital zoom and its sharp, distortion-free images will ensure consistently clear views.

The HD EndoEYE Video Laparoscopes combine with the **Olympus EVIS EXERA II™** universal imaging platform to produce an impressive 1080 lines of resolution—more than four times that of a conventional video system. The image displayed is extraordinarily sharp with virtually no detectable pixelation or artifacts. The EVIS EXERA II is the only system

that utilizes a fully integrated HD system throughout the entire imaging chain, beginning with the HD EndoEYE video laparoscope, through to the powerful HD processor, and onto the HD monitor, for a truly remarkable HD image.

John R. Miklos, MD, of the Atlanta Center for Laparoscopic Urogynecology (Atlanta, GA), uses the HD EndoEYE Laparoscope almost daily in his practice. As Dr. Miklos

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John R. Miklos, MD

points out, “There are other scopes available from various companies, but this is the first time the high definition chip is actually in the tip of the scope—that’s one of the reasons why I like it so much. This placement of the chip allows for enhanced acuity and therefore better visualization.” Dr. Miklos adds, “Because this scope is

self-focusing and doesn't fog, it also allows me to be a more efficient surgeon, as I don't have to worry about continually removing the camera from the abdomen."

Surgeons find the higher resolution image from the HD EndoEYE Laparoscopes to be a major advantage in clinical application as it provides an increased level of contrast, detail and color

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reproduction when compared to standard definition formats. "The image is superb," observes Dr. Miklos, "and I find this to be particularly beneficial. I do a great deal of laparoscopic surgery and perform highly detailed work in vaginal reconstruction. The quality of the image allows me to see things in greater detail and I can see even the finest blood vessels and the most delicate structures with great clarity." Dr. Miklos

points out further benefits of the HD EndoEYE Laparoscopes: "By adding high definition visual acuity for the surgeon, you decrease the chance of morbidity or complications while at the same time improving the effectiveness, reliability, and efficiency of your surgery. With these laparoscopes, we can obviously provide better and safer patient care."

The unrivaled digital image of the HD EndoEYE is transmitted directly from the distal tip and therefore eliminates the risk of lens breaking and compromising image quality. There are no extraneous parts to connect and the seamless one-piece design can be handled without difficulty. Full control rests in the surgeon's hand with three programmable remote control buttons that direct the different camera functions. The 10mm HD EndoEYE Video Laparoscopes are available in 300 mm working-length versions, with 0° and 30° directional views, and a longer 390 mm version with a 45° direction of view is also available to accommodate larger patients. Several 5 mm standard definition EndoEYE video laparoscopes are also available.

Dr. Miklos concludes his remarks by stating, "I work at perhaps the largest OBGYN hospital in the country and perform a considerable number of surgeries. I had my



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choice of *any* equipment that I wanted—and I chose the Olympus laparoscopes because of the superiority of the image. As far as I'm concerned, the HD EndoEYE is now the gold standard for all laparoscopic surgical imaging." ♦

### To Learn More

For more information about HD EndoEYE™ Video Laparoscopes, the EVIS EXERA II universal imaging platform, or other products from Olympus Surgical America, please call 1-800-548-5515, or visit the company's Web site at [www.olympussurgical.com](http://www.olympussurgical.com).