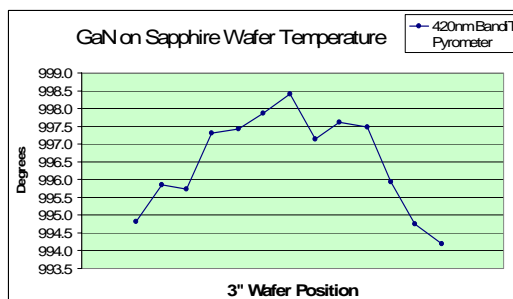




kSA BandiT Now With Multi-Wavelength Pyrometry!

k-Space has just completed integration of user-selectable pyrometry into its kSA BandiT. Now, in addition to band-edge thermometry, users may also

perform standard pyrometric temperature measurement through the same view port. This can be useful for temperature comparison and reference, as well as for extending the operational range of BandiT, e.g. performing high temperature Si monitoring. In addition, because BandiT is spectrometer-based, multiple wavelengths may be used for pyrometric analysis. This allows above-gap monitoring, ensuring the effects of heater radiation and stray light are minimized, as done in the example above, for GaN pyrometry at 420 nm.



kSA 400 "Soft Covered" Flange Mount Now Available!

k-Space Associates now offers a soft-covered flange mount to compliment its line of flange mount assemblies for analytical RHEED. This new flange mount is perfect where little room is available around the RHEED view port. The Cordura® cover with Velcro® attachments can be added or removed easily. Shown here is the assembly with the cover. Underneath the cover is a skeleton assembly consisting of an optical mount sliding on stainless steel rails. Please contact us for a quote!



Tech Tips: Analog and Digital I/O Capability On All kSA Products

Did you know that analog and digital I/O functionality exists for all kSA products? We have built I/O flexibility into the kSA product line to allow you to interface k-Space products to external devices and software. For example, to read in a temperature value simultaneously while taking reflectance data with the kSA RateRat Pro, set the system to read in temperature on an analog input line, say, mapping 0 – 10V to 0 – 800C (user programmable). Or, to output stress values from the kSA MOS system into MOCVD control software, you may map a range of stress values to an analog output channel. Note that several off-the-shelf data acquisition and I/O boards are supported by the kSA product line.

Low Cost Option for kSA 400

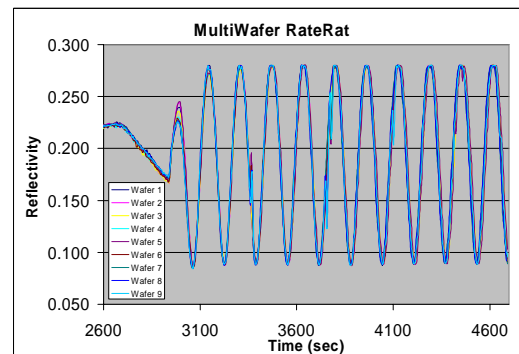
All kSA 400 systems are supplied as a turnkey unit, complete with the latest software that has made the kSA 400 the #1 analytical RHEED package for over 10 years. Now, the kSA 400 system comes with either a 10-bit or 12-bit digital camera.

**k30FW 10-bit camera****k200D 12-bit camera**

The 10-bit (1024 levels) detector utilizes Firewire technology, while the 12-bit (4096 levels) uses a dedicated digital framegrabber. The 10-bit camera is sufficient for many RHEED applications, and makes the kSA 400 system 15% less expensive than the 12-bit camera option. Please contact k-Space for pricing and details.

Real-Time Growth Rate and Optical Constants for Multi-Wafer MBE/MOCVD with kSA RateRat Pro

Using triggering signals from multi-wafer OEM MBE and MOCVD reactors, kSA RateRat Pro provides real-time updates of growth rate and optical constants for most material systems. With



values converging typically after just 800 Å of growth, RateRat Pro also is a powerful tool for real-time process control. Shown above is data taken during growth of GaN on sapphire in a multi-wafer MOCVD reactor.

Please Visit the k-Space Booth at the Following Upcoming Conferences:

- ICNS – Bremen, Germany August 28th – September 2nd
 - See us with our European representative, Richard Thompson Associates (RTA)
- NAMBE – Santa Barbara, CA, September 11-14th
- AVS - Boston, MA, Oct. 31 – Nov. 2
- MRS, Fall 2005 – Boston, MA, Nov. 28 - Dec. 2
- MRS, Spring 2006 – San Francisco, CA, April 18-20, '06