Moritex products to be presented in kind collaboration with Schott Fibre Optics at IPOT 08, 13th and 14th February, Birmingham NEC

1) Palmscope

- **Versatile**
- **Convenient**
- **Easy**
- **Durable**

Capture video and still images and AUDIO
Video clips are captured at full NTSC or PAL resolution, at 30 or 25 fps respectively, and stored in Motion-JPEG (MJPEG) compressed format, allowing approximately 3 minutes of video to be stored on a 128MB CompactFlash card. Still images are stored in a compressed JPEG format and over 1000 images can be stored on a 128MB CompactFlash card. The storage capacity is limited only by the size of the card used, and a 2GB card will hold many thousands of images or up to 80 minutes of video.

Annotate images for later reference
Captured images and video clips are automatically named with the date and a sequence label; alternatively you can supply a name using the PalmScope keypad.

Organise images to aid retrieval
The PalmScope includes a convenient thumbnail gallery with cataloguing functions to help in archiving and retrieving images. An individual image can be selected for full size viewing. Images can be easily transferred to a PC using the supplied card reader, where they can be displayed or processed by any suitable image editing software.

Simple operation
The PalmScope is simple to operate, using intuitive onscreen displays, and the keypad can be used even when wearing gloves or protective clothing. For convenience the PalmScope can also be switched for either left-handed or right-handed use.

Robust
Its tough construction and the absence of moving parts make it extremely durable, and it is ideal use in the field.

2) Video Lightscope (to be shown as live video input for Palmscope)

As from January 1st 2008, the Video Lightscope will be available in 4 different lengths: 1m, 2m, 3m and 18m. In addition it will be possible to customise lengths, subject to pricing and lead-times.

3) MSX-500Di Video Microscope

Power and Flexibility
2.1 Megapixel digital CCD Microscope providing stunning close up images that will make any visual inspection and display task easier.

- High quality optics, 2.11 megapixel CCD
- Camera
- Built in 3.5inch LCD monitor
- Controllable LED, high intensity illumination
- with 7-block adjustable set up.
- Display on external monitor or control via USB
- connection on PC including measurement
- software.
- Built in SD Card storage slot.

4) MML Lenses

New High Resolution Telecentric Lenses:

- Specially Designed for Mega Pixel CCD Camera
- Excellent resolution at entire Field of View
- Low distortion / High Contrast
- Long Dephth of field
- Higher Uniformity of Coaxial Illumination
- Compact Size

Mega pixel inspection benefits from new high-resolution lenses ..

Benefiting from over 25 years experience in developing durable, high-performance products for vision applications the new HR series of MML's has been specially designed for high-resolution inspection applications involving Mega pixel cameras.

Moritex MML's are renowned for their high specification and performance. Optimised for Mega pixel cameras, up to 2/3-inch CCD chip size, the affordable HR series of MML's provide excellent resolution (0.3 - micron) and high uniformity of coaxial illumination across the entire field of view. This in combination with low distortion, high contrast and a long working distance make the HR series the new 'Gold Standard' in machine vision lenses.

Moritex MML's are telecentric lenses, which maintain a constant view angle to the subject. This is achieved by keeping the optical ray paths parallel to each other. Lens telecentricity is crucial in vision and inspection applications where view angle and magnification errors need to be minimised. All Moritex MML's are packaged in compact, low mass designs, assembled to endure the rigours of even the most demanding machine vision and industrial inspection applications.

5) MG Wave LED lighting

Heat controlled LED Illumination systems
Constant Current :
MG-WAVE series

- 40% increase in luminous intensity
- Reduction by 20% in heat-generation
- Comprehensive Range of LED illuminators
- IR and UV LED illuminators is possible

Moritex's 'MG-Wave' constant current LED lighting includes a range of unique technical features. MG-Wave LED lighting provides longer stable images than other forms of lighting. Unlike other forms of lighting there is no deterioration caused by repeatedly switching the light on and off. Operating across a narrow bandwidth MG-Wave makes it easy to acquire the contrast critical for image processing. Incorporating small light source elements enables MG-Wave to deliver lighting dimensions optimised to application. Incorporated in the LED light the MG-Wave constant current detection system reads the signal to control the rated current that is adjusted to the number of LED's in every lighting module. Consequently MG-Wave has the flexibility to offer its industry leading performance for any type of lighting configuration.

ische Obiektive

Gebaut für MEGA-Pixel
Bildsensoren

Power sources

New power sources offer RoHS compliant LED illumination ...

Moritex has announced a suite of new constant current **Power Sources** purpose designed for its popular **MG Wave LED lighting** range.

To accommodate the wide range of applications optimised MG-Wave LED lighting, three different sub-series of MLEK power sources are available to meet the different current requirements of the lights available. Because heat generation is reduced by the constant current design, each MLEK power source can be used in a way that makes the most of the unique features of the different LED lights. MLEK power sources come equipped with a wide variety of functions, including output control.

The three different sub-series of MLEK power sources differ by current output. The A080 Series power sources have a maximum current output of 0.8A. The A080 Series is available in three models according to application, all of which have manual intensity control and support the control function and error signal output function. The B400 and B600 Series are digital two channel constant current power sources that output a maximum current of 4.0A and 6.6A, respectively. A single unit powers the LED lights with compensation for high currents on its two separate channels that are independently controllable. Both series are equipped with an external digital light control function (coarse and fine controls) and the control error signal output function.