

# Lumina I

**procemex**

## Lumina I - Digital Smart Camera Superior Image Quality even in the Most Challenging Positions

Lumina I - The latest member of Procemex Flex Camera Family, with radically improved image light sensitivity. It is compatible with Procemex Web Monitoring Systems. The superior light sensitivity ensures, that Lumina I delivers clean and bright images even in the most challenging conditions.

Lumina I Smart Camera, can be used for **Procemex Web Monitoring System** in all machine sections, from forming section through dryer positions to the reel of paper machines.

Engineered for Superior Functionality and Precision Lumina I is a high definition camera specifically designed by our engineers to meet the demands of fast paper and board machines, with over 2000 m/min (6500 ft/min).

### Lumina I Smart Camera

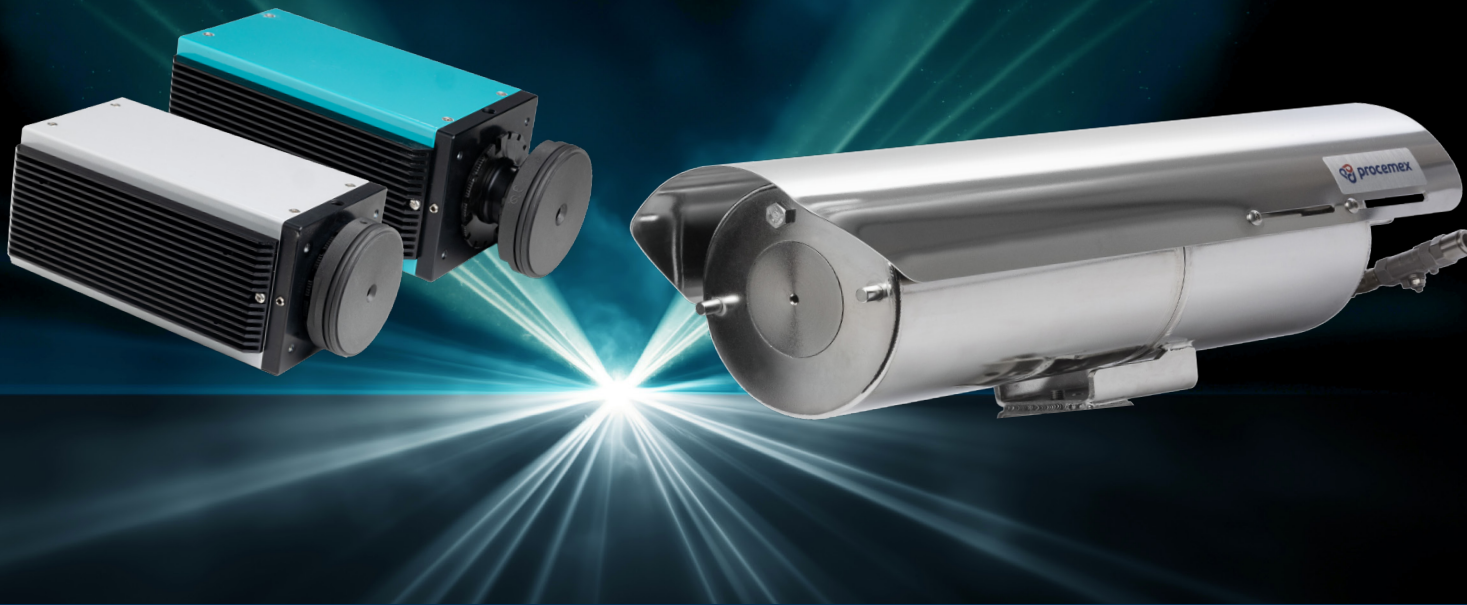
- Smart Camera for Procemex Web Monitoring System
- 2,1 Megapixels (2040 x 1020)
- Sony 3.19 Mpixel image sensor
- 50-200 frames per second
- Compatible with the existing Procemex OnePlatform Flex WMS systems
- Built-in autoshutter and image change detector
- Visually loss-less image conversion
- RAM-based Super Circle recording
- B/W



### Key Features

- High image sensitivity and adjustable gain up to 48dB
- Digital smart camera for Web Monitoring Systems (WMS)
- Compatible with standard C-mount and Procemex ProClean pinhole lenses
- Long life time with secured future compatibility (TCP/IP, future proof sensor)
- Supports large systems with distributed data processing
- Less spare parts – one camera covers all needs
- Computing power to meet future needs

**SUPERIOR LIGHT  
SENSITIVITY  
=  
SUPERIOR  
IMAGE QUALITY**



## Lumina I with ProClean Pinhole Camera Technology

### Crystal Clear Images Across the Imaging Area

A standard pinhole camera with 1/2.000 sec or lower shutter speed can't stop paper movement properly and lacks light especially in corners of the imaging area. Procemex ProClean pinhole camera, with 1/8.000 sec shutter speed stops paper movement and has even illumination across the imaging area resulting to crystal clear images.

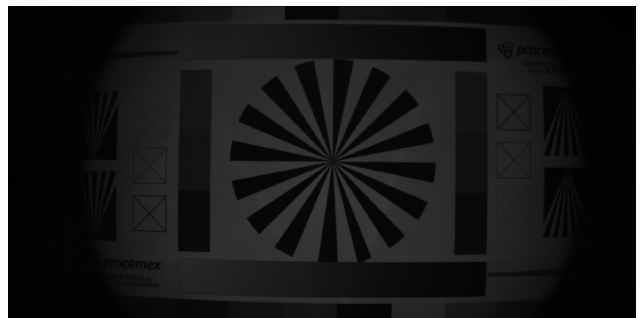
Procemex ProClean Pinhole camera is equipped with a dedicated pinhole zoom lens capable of viewing through a small 5mm hole. The lense is a unique purpose-built component designed to utilize available illumination better reaching 5-10 times higher shutter speeds over standard pinhole lenses.

Higher shutter speed stops fast moving paper web better resulting to **crystal clear image quality**.

The benefits of ProClean Pinhole Camera are trouble-free operation, low air consumption, 100% continuous visibility and the simplicity of the concept. There are no moving or wearing parts such as wipers, electronics or controlling components.

Continuous air flow enables pinhole cameras to film undisturbed 100% over the time without washing cycles or wiper movements causing blind times during the cleaning process.

#### IMAGE WITH **STANDARD** PINHOLE CAMERA



#### IMAGE WITH **LUMINA I** COMBINED WITH PROCEMEX **PROCLEAN** PINHOLE TECHNOLOGY WITH SUPERIOR LIGHT SENSITIVITY

