

Valmet IQ Web Monitoring System

The renewed Valmet IQ Web Monitoring System is now more compact in size, and its enhanced features provide pulp and papermakers with higher-quality images than before for analysis purposes. The system enables operators to faster take virtually instantaneous corrective measures. These features maximize production line efficiency and product quality.



See the difference - IQ Web Monitoring System will improve and maintain machine productivity

Key elements for high-quality web monitoring systems:

- Fast and easy root cause analysis of web breaks
- Clear and good image quality
- Powerful illumination by efficient LED
- Easy to use and maintain by modern system structure

Fast and easy root cause analysis of web breaks

IQ Web Monitoring System records video images on the crucial events in the process, such as web breaks, tail threading and defects triggered by the web inspection system. Recorded images are synchronized by positions and available for playback, enabling operators to quickly find the origin of the event and correct the problem. Automated synchronization of images minimize needed analysis time and shows easily root cause of break. This shortens downtime after breaks and improves runnability. Optimized machine efficiency delivers fast payback on investment.

Clear and good image quality

The web monitoring system camera enclosure is compact in size and has a modular structure. Modularity allows the use of different kinds of cameras

and optics, such as a manual, motor zoom or pinhole optics. Pinhole optics allows to use camera in the worst (dirtiest) locations of machine. Camera is equipped with a latest high-sensitivity FullHD Sony CMOS sensor. It is also possible to use a color camera.

Powerful illumination by efficient LED

IQ Web Monitoring System has a separate compact LED light module that is synchronized with the camera. The separate LED allows better optimization of the light pattern and its direction (patent pending). There are altogether 140 LEDs featuring the latest LED technology. A light output of 45,000 lumens is reached with only 35 watts power.

Easy to use and maintain

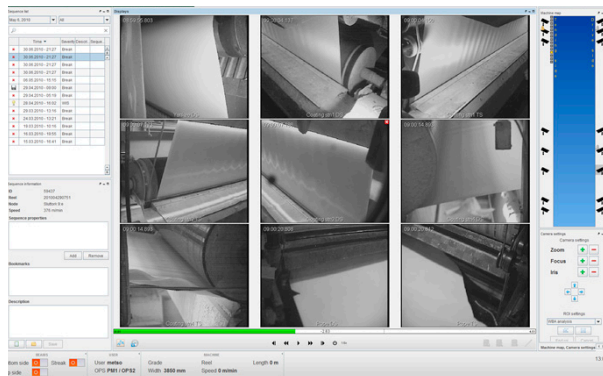
Data is transferred through standard 1 gigabyte Ethernet components and standard high power servers are used for image processing. Camera and LED enclosures are made with acid proof 316 Stainless Steel and all cables are equipped with quick connections. Due to these features and a low number of components, the system is easy to install, use and maintain. The renewed web monitoring system is fully compatible with older-generation systems and it is possible to virtualize.

Valmet IQ Process and Quality Vision

IQ Web Monitoring System is one of the two elements of the Valmet IQ Process and Quality Vision (PQV) System, a comprehensive machine vision solution. The other element in this system that Valmet launched in 2015 is Valmet IQ Web Inspection System.

Advanced features

- Opposite side cameras and LEDs are synchronized
- Synchronized flashes generate double light effect
- Reduced need of additional light unit
- Recordings triggered by web inspection system allows operators react to problems before those are causing web breaks
- Automated region of interest analysis with related alarms helps to find quick changes in the process
- Movable camera unit can be used easily in problem locations which don't have fixed camera
- 4K live videos



Valmet IQ Web Monitoring System

Balanced pair of industrial FullHD camera and optics

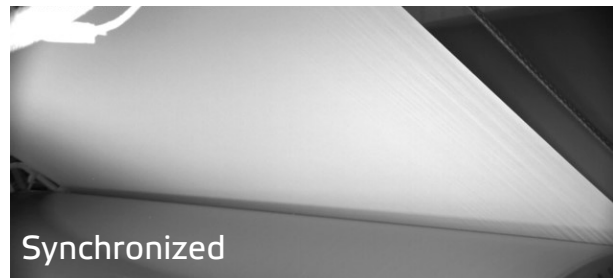
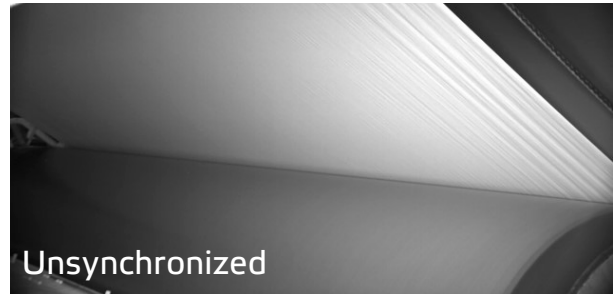
- Sharp image in entire view area
- Fine details for in-depth analysis

Separate stroboscopic high power LED light

- Optimum lighting throughout whole image area with both alignment and light pattern

Additional light unit for extra large view applications

- Plug-in unit to be used synchronized with IQ WMS



Balanced chain of image handling without losses

Standard 1 gigabyte Ethernet

- Uncompressed images transferred to processing unit without losses and disturbances

Centralized image processing

- Powerful standard server (CameraPC)

Easy to use operator interface

- Configurable displays for quick root cause analysis
- Reporting tools for efficient use