High Speed Video for Conveyor Belts

What does it do?
This system creates a stream of high quality digital images from both the underside and the side of the conveyor belt so that inspection with reference to location can be performed.

How it Works
A trigger wheel ø700mm runs along the conveyor belt. At every rotation of the wheel a trigger is sent to a camera on the underside of the belt, a strobe and a camera at the side of the belt causing each one to be activated simultaneously.

The images created are stored in a high specification computer and viewed as a stream of images in StremPix.

The images are analysed to find splices, damage and wear which can be referenced to a location.

Digital Imaging
Using digital images has massive advantages over traditional analogue video because of the quality of the image created. The images produced are non-interlaced so are of superior quality. Image recognition can also be written into the software to enable automatic fault finding for different applications.

What Service does PNDT provide?
PNDT technicians with the specialised camera system will set up the system on site (available globally). The technicians will stay on site to record the data ready for analysis. The results will be analysed and presented in the form of a splice list with locations as well as images of all spliced damage and wear in J-Peg format.

High Quality images
High Speed Video for Conveyor Belts

Technical Data

Set-Up Requirements

Appropriate Applications

The Control Box
- Encased in a robust housing
- High Processing Speed and storage capacity
- Back-Up Power Supply
- Powered by either the mains or car battery
- USB keyboard and Mouse
- DVD Writer

The Cameras
- Capable of 18.7 frames per second (FPS)
- 2 Megapixel at 14 FPS
- Colour and Monochrome
- IEEE 1394 Output

The Strobe
- Flash rate of 30 Hz (Max)
- Uniform Illumination
- Longlife Flashlamp
- Lightweight and compact

The Frame:

Shipping Information
- Control Box
- Camera Box
- Frame

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