

Full repeat
web viewing system
for superior process
monitoring



View**AXIS** Tera

During a printing run, an operator checks the print quality by visually inspecting the print web. However, at high web speeds, it is impossible for the operator to spot printing errors or defects on the running print web with the unaided human eye.

Conventional web video systems allow the operator to view a stationary image of only a section of the print web. Until now, the only way to monitor the full width of the print web was to use a stroboscope. However, when used for an extended duration, the constant flicker of the stroboscope can strain the eyes.

The ViewAXIS Tera is the *first* full print repeat web viewing system for superior process monitoring. It captures sharp, high resolution, 'near print quality' images at full production speeds (up to 450 metres per minute), using fast and high resolution line scan cameras. The output is visualised on a 55" 4K screen.

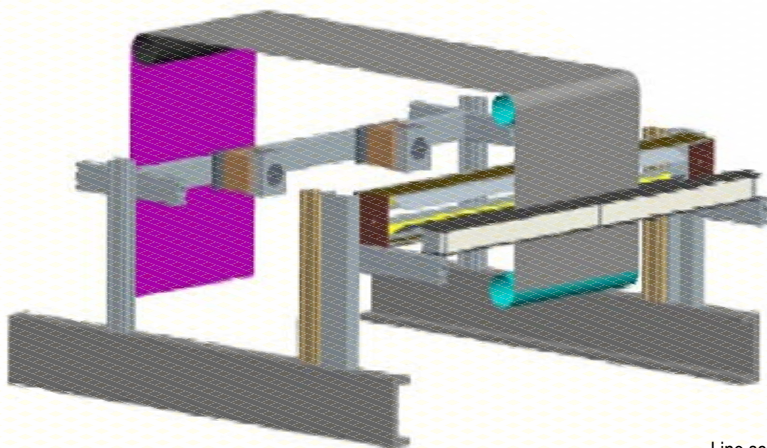
The ViewAXIS Tera can show the operator a stationary image of the entire width of the print web. By looking at this image, an operator can easily spot errors and defects on the print web and take corrective action to reduce print material wastage. The ViewAXIS Tera also has a magnification feature which enables minute inspection of the print web, which helps improve print quality as well. An icon-based graphical user interface (GUI) makes it easy for operators to use ViewAXIS Tera.



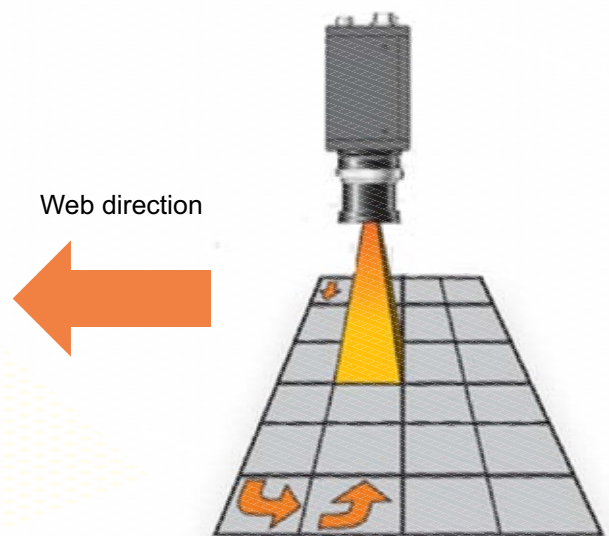
Full repeat monitoring on a single screen

FUNCTIONS

- **Image control**
 - Image rotation
 - Horizontal and vertical flip
 - Selection of region of interest
 - Fit to screen view
- **Easy and quick access to all portions of the repeat at a time**
- **Automatic scanning of critical areas**
- **Split screen**
- **Repeat scan mode and selection of critical areas**
- **Dual screen**



Line scan camera



The line scan camera has three rows of RGB pixel sensors. The camera scans horizontally, then vertically, while recording images. Designed to produce high resolution images of fast-moving objects, the line scan camera has an encoder as input trigger and scans the image line by line at higher print speeds. The lines are continuously fed to a frame grabber that joins them together to form a high resolution image.

Designed for the highest print quality, operational flexibility, and improved productivity

- **Precise and efficient web monitoring**
 - High resolution digital images and numerous web viewing options
 - Line scan camera with digital zoom facility
 - 55" 4K screen for full print repeat monitoring
 - 22" touch screen monitor for monitoring magnified images of the web
 - Automatic constant scan mode
- **Full print repeat monitoring**
 - Visualise the full print repeat on 55" 4K monitor with true colour display
 - Instant error identification
 - Magnification and brightness control function for better image viewing
 - Real time split screen function for cross marks comparison on both edges
- **Better image control**
 - Bright white light LED with variable intensity
 - Multiple image setting options
 - Selection of region of interest
 - Fit to screen viewing
 - Image rotation option and horizontal/vertical flip options
 - 1:1 image viewing
 - Image magnification
 - Image resolution equivalent to 50+ megapixels
- **Next generation system**
 - Line scan camera of > 150 DPI resolution
 - Online diagnostics and support
- **Low power consumption**
 - LED back and front lights with variable intensity
- **Scanning of critical positions**
 - Entire web is easily accessible
 - Split screen feature aids in viewing of traffic lights on both edges simultaneously
 - Define areas of interest
- **Adaptable to different types of material**
 - System can be used for any type of roll to roll printing applications and for any packaging substrate
 - Supports all material like polyester, BOPP, aluminium foil, LDPE
- **Easy to operate**
 - Interactive icon-based GUI

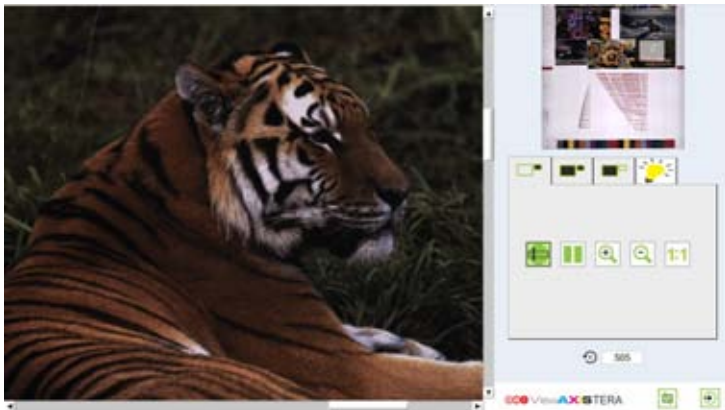


Technical specifications

Model	ViewAXIS Tera
Monitor	55" monitor visualisation, 22" touch screen monitor for operation
Camera resolution	>150 DPI (dots per inch)
Viewing area	Dynamic
Camera unit	Line scan camera
Flash unit	LED brightfield
Area magnification	4x digital zoom
Print speed	450 metres/minute
Power supply	230 V AC 50 Hz

Additional options

- Dual camera for better resolution
- Additional light
- Save and export images through USB



ViewAXIS Tera home screen



ViewAXIS Tera split screen

About A.T.E.

With deep domain knowledge built over three decades in the print and packaging field, A.T.E. is known as a reliable source of quality products.

A.T.E. has developed customised solutions for demanding and complex printing applications using measurement and control technologies. A.T.E.'s dedicated team is focused on continuously improving A.T.E.'s products and solutions with regular upgrades to algorithms and software.



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