

UniPRINT

WEB MONITORING SYSTEM



SUPERB IMAGE QUALITY, RICH FEATURES AND RELIABILITY

UniPRINT is a web monitoring system to inspect and verify any material during printing, converting, and finishing processes. You can easily and efficiently check all details of your product, even at the highest speeds, and you get images of outstanding quality.

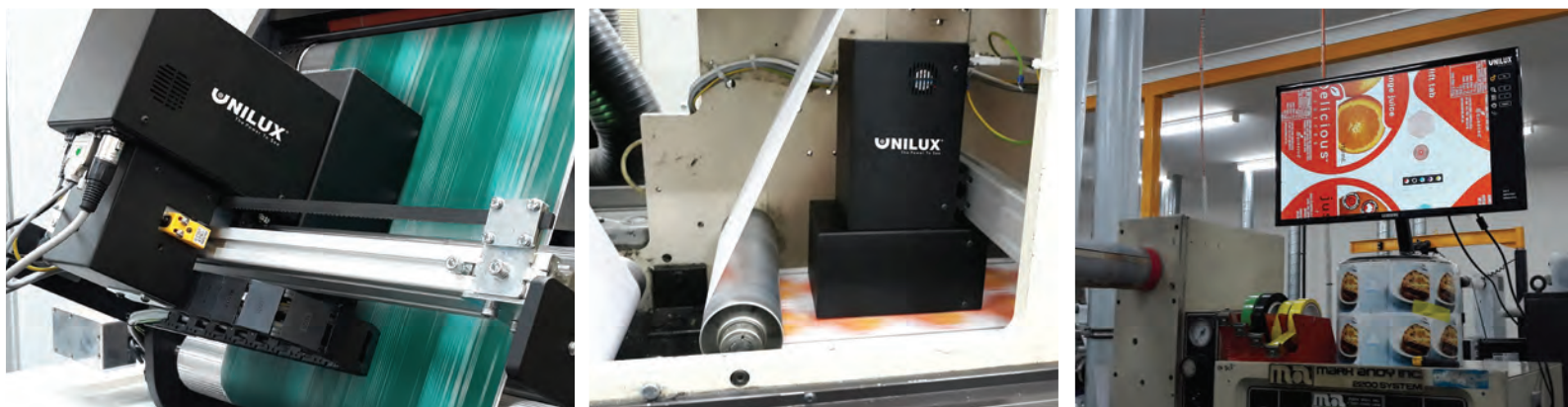
Be it paper, foil, metallised film

Be it print defects, cutting problems, perforation issues, positioning problems front/back side

Be it issues with UV visible ink

UniPRINT has a solution to offer.

The UniPRINT web monitoring system visualises an area of your web at full production speed and displays it on a monitor. From there, you can conveniently check the quality in different magnifications and customised settings.



UniPRINT vision systems set new quality standards in web inspection with

- **crystal-clear images**
- **user-friendly and intuitive operation**
- **best-in-class quality and value for money**
- **robust industrial build quality**
- **specifications that exceed other systems in its price range**

Configured to your needs and budget, you can select from three different high-definition camera formats, a manual or motorised camera positioning and choose the STANDARD software package or upgrade to advanced inspection features with PRO version.

Learn more about the UniPRINT system and software options >>

Choose from one of the **three high-definition camera formats**.

Consider your machine size and the available space and whether you need a motorised traverse or the lower-cost manual traverse option.

UniPRINT 100



The Entry System

Model 100 is ideal for narrow web machines with its good price/performance ratio, robustness, and reliability.

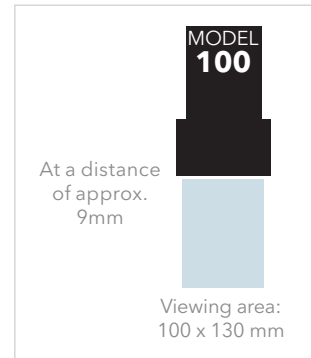
With its specially designed light chamber, the model 100 achieves a large **100 x 130mm field of view** in a compact size.

Whether used as a manual system where camera positioning needs to be done by hand or as a motorized system with remote alignment,

the Model 100 is ideal for register control or narrow web applications such as label printing. It can also be used as a cost-effective system for wide-web applications with simple requirements.

Control of the 100 camera is achieved via the Standard, Touch or Pro software packages.

Camera dimensions	(W x L x H)
Manual traverse version:	120 x 195 x 301 mm
Motorised traverse version:	120 x 260 x 301 mm



UniPRINT 130



The Advanced System

Model 130 is an excellent entry-level wide web product surpassing the specifications of many other systems in its price range.

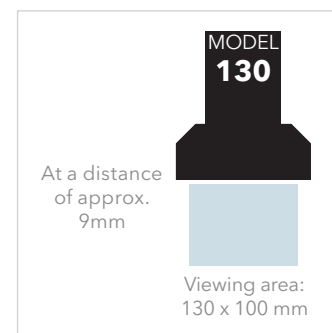
With a **130 x 100 mm field of view**, 18x optical zoom and dual strobes, model 130 images are crystal clear providing exceptional value for money.

For inspecting packaging or labels in medium or wide web printing or for inspecting holograms or

metallised foils, the model 130 always provides outstanding image quality. In addition to the motorised version, the model 130 is also available as a manual system for freely accessible machines.

Control of the 130 camera is achieved via the Standard, Touch or Pro software packages.

Camera dimensions	(W x L x H)
Manual traverse version:	150 x 245 x 301 mm
Motorised traverse version:	150 x 306 x 301 mm



UniPRINT 185

The Advanced Plus System

Model 185 is the ideal choice for high-quality wide web inspection.

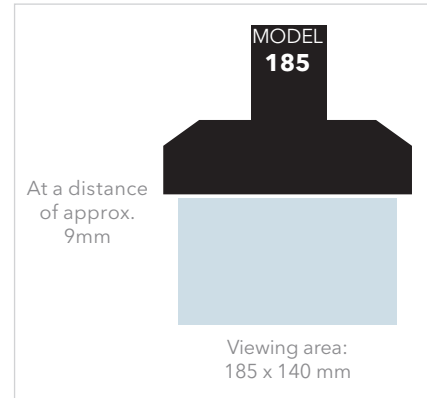
It provides an extended **185 x 140 mm field of view** illuminated by Quad xenon strobes.

When combined with an optional touch screen and advanced PRO software, the model 185 will satisfy the most demanding inspection needs.

The 185 model is suitable for similar applications to the smaller systems but offers a significantly larger field of view to control a larger area of the web with a single shot. The four light sources make it ideal for hologram control.

Control of the 185 camera is achieved via the Standard, Touch or Pro software packages.

Camera dimensions	(W x L x H)
Manual traverse version:	232 x 351 x 351 mm
Motorised traverse version:	232 x 358 x 351 mm



INSPECT OPTICAL BRIGHTENERS, UV-VISIBLE, AND STANDARD INKS

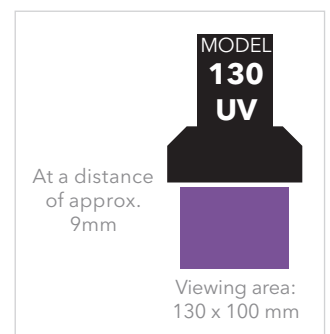
Do you need to check print jobs with optical brighteners, or inks and coatings that are only visible under UV light? UniPRINT **+UV** is the only print monitoring system that gives you the ability to inspect with white light and/or UV light with a single unit.

UniPRINT 130 +UV The UV & white light System

With model 130 **+UV** you can inspect with **white light and/or UV light - in a single unit.**

For invisible UV ink, UV primer for cold seal applications, or security printing or coating, the Model 130 **+UV** delivers excellent results with white and UV light. When used together, the positioning of the different materials can be synchronised and controlled in one run.

Field of view: 130 x 100 mm.



Control of the 130 **+UV** camera is achieved via the Standard, Touch or Pro software packages.

Camera dimensions	(W x L x H)
Manual traverse version:	150 x 245 x 301 mm
Motorised traverse version:	150 x 306 x 301 mm

CHECK UV-VISIBLE, AND STANDARD INKS WITH A SINGLE SYSTEM

UniPRINT

According to your requirements and material, easily select only **white light**, only **UV light**, or **both at the same time**. Just switch on the light you need.

The following three images were all taken by **UniPRINT 130 +UV**.



Only white light on



White light and UV on



Only UV light on

HIGH IMAGE RESOLUTION

The image zoom enables **excellent and burr-free imaging of the smallest details** of your print web without loss of image quality. Simply touch and hold the centre of the screen to zoom in on the image and see the details that are important to you - **at full production speed**.



Hi-Resolution Digital Camera with 18x Optical Zoom

DUAL CAMERA OPERATION

Do you have a web that is printed on both sides, or the back of the packaging material is to be cold-sealed? The Dual Camera options allow you to check the quality of both sides at the same time.

A dual camera system is typically installed so that Camera 1 views the front side of the web and Camera 2 views the back side of the web. It works with all four camera types, but cameras 1 and 2 must be the same model. A dual-camera system also cannot be used for positioning the front and back to each other. Here the **BACK STROBE** is the better option.

BACK STROBE OPTION

UniPRINT can be supplied with optional back strobe illumination. This is an extra strobe that is synchronised with the camera and is mounted behind the web.

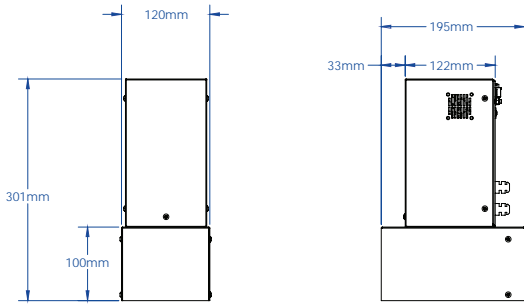
For translucent webs, the back strobe provides illumination through the web allowing print on both the front and back of the web to be viewed simultaneously. Back strobe illumination is ideal for monitoring front to back registration.



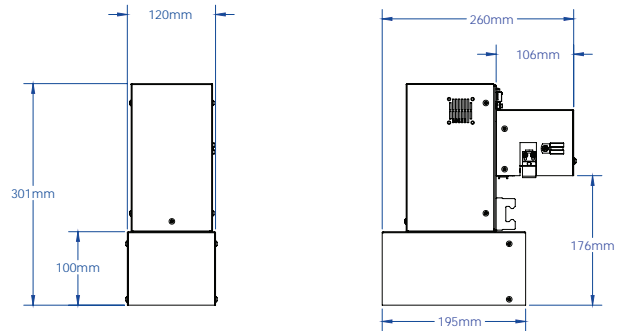
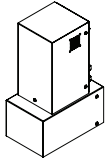
	STANDARD	TOUCH	PRO
Keypad with standard monitor	✓	✗	✗
Touch screen monitor	✗	✓	✓
Split screen Splits viewed image for colour/registration comparison. Freeze the image on the left-hand side of the screen for side-by-side image comparison with the moving web. Image comparison will allow the operator to check colour quality throughout the print run and to check deviations in registration. Using the split screen feature will ensure that waste is reduced efficiently.	✓	✓	✓
Register mark memory* Allows the user to store a position along the web to enable a quick return at any time. It can be used to store any position of interest. At any time during the normal print run, a single button can be pressed, and the camera will move immediately to the stored position.	✓	✓	✓
Fastscan (fast optimised - ACS)* Bypasses the slower speeds and step adjustment and allows the operator to rapidly see the entire print repeat as quickly as possible by automatically calculating the most optimum settings. Fast Scan calculates its path based on web parameters set in Job Settings.	✗	✓	✓
Horizontal automatic constant scan (HACS)* HACS speed-based mode automatically moves the camera constantly back and forth across the web and steps along the web path direction when the camera changes direction at the web edge. HACS step-based mode allows for several images to be taken at each position.	✗	✓	✓
Vertical automatic constant scan (VACS)* VACS mode automatically moves the camera along the web path direction in a series of steps, pausing to take several images at each step before moving on to the next position. This mode also enables the camera to step horizontally across the entire print repeat.	✓	✓	✓
Electronic web edge* Electronic web edge refers to the left and right positions of the edge of the web as defined by the operator; when you move the camera to the desired position on either side of the camera's path and enter the value using the remote or touch screen monitor. This also allows partial selection or narrowing down of the web width.	✓	✓	✓
Thumbnail Gallery (Scan positions)* For particular points of interest on the print repeat, the Scan Position Gallery easily stores the position and zoom setting, complete with an image of the web position. Simply touching a Scan Position thumbnail causes the camera to move rapidly to that web position and magnification.	✗	✓ (9)	✓ (18)
One-touch positioning (OTP)* Unique OTP Control allows rapid camera navigation to any part of the web.	✗	✓	✓
Multiview* Displays the last four or nine images captured by the camera, allowing the operator to see four or nine times the web area with a single glance.	✗	✓	✓
Image to disc Saves the current image to an external USB drive.	✗	✓	✓
Webmap* Creates and saves a full scan or map of the entire print repeat at the touch of a button. This scanned image can be used to quickly navigate to any position on the web by touching that point of interest on the web map.	✗	✗	✓
Jobs database* Allows storage of job-specific settings. Job settings, the web map, and the thumbnails can be saved in the database under a specific job name. Whenever the same job is reprinted, its settings can be recalled from the database and are restored in seconds. A maximum of 250 jobs can be stored in the database. This feature works best when combined with an optical sensor.	✗	✗	✓
Eyemark Sync Simplify job setup by using existing registration marks for inspection. This feature eliminates the need to add a dedicated single registration mark per repeat for proper synchronization.	✗	✓	✓
Smart Label Checking Smart Label Checking streamlines quality control for numbered labels in a sequence by enabling inspection at any given repeat.	✗	✓	✓

*Requires motorised traverse system

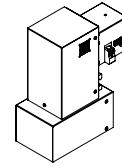
UniPRINT 100



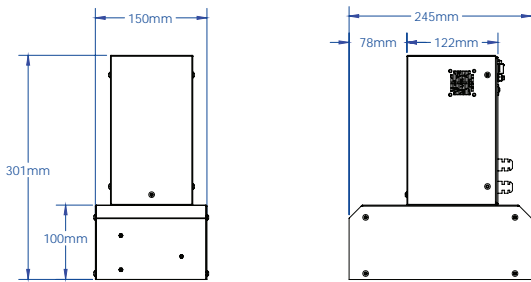
[Version for manual traverse]



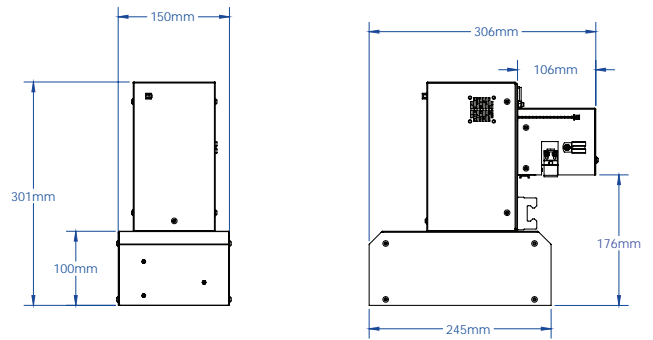
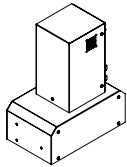
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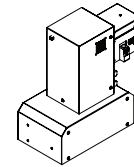
UniPRINT 130 and 130 +UV



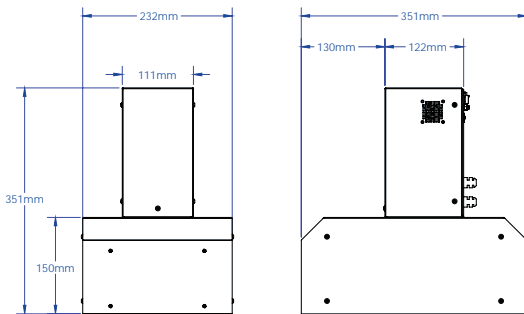
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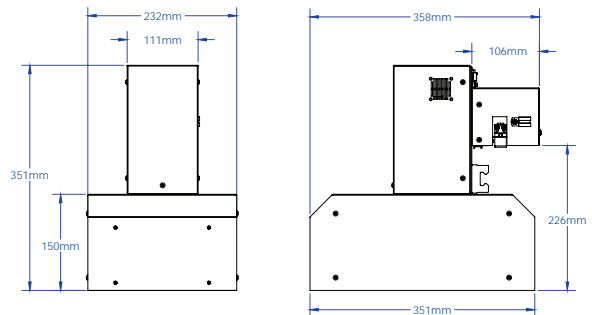
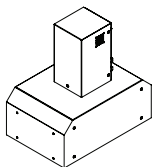
[Version for motorised traverse]



UniPRINT 185



[Version for manual traverse]



[Version for motorised traverse]

