

# Northlight

## Version 2 projector

FilmLight



The new Northlight projector builds on the success of its predecessor, offering new features for scanning fragile, damaged or non-standard archive material.

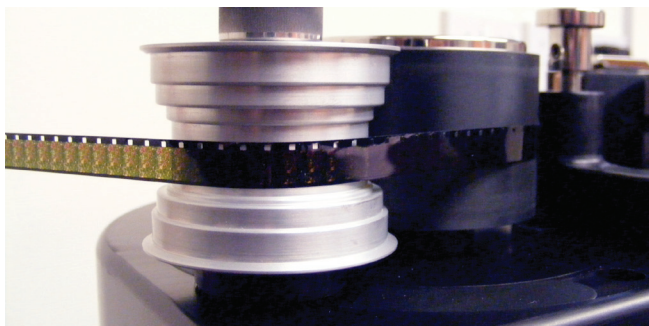
Reliability and safe film handling are the hallmarks of the original Northlight projector, and the same ethos has been applied to the new design.

You can configure the new transport system to suit the condition of the film quickly and easily, whether scanning modern camera negatives or fragile archive materials.

With a number of new software features, multiple film gauge functionality, pinless gates and the option of a capstan drive, Northlight can take on the most challenging archive tasks.

### Multiple film gauge capability

Northlight handles 35mm and 16mm film gauges as standard; however, the projector and film path are capable of dealing with any sub-35mm gauge. The system can cater for up to four separate gauges—for example, 8mm, 9.5mm, 16mm and 35mm. If you work with film gauges other than 35mm and 16mm, contact FilmLight to discuss your requirements.



Multiple film gauges? No problem

### Extreme shrinkage managed with ease

The new projector deals with excessively shrunken film—from 1% to 3%—as a matter of course, and can even cope with film shrunken more than 3% if needed.

Several new features ensure that your film is always treated properly:

#### Self-adjusting film loop

The new projector has two loop rollers that apply a gentle, linear tension to the film. If your film is shrunken, the loop length will vary—so the new rollers have been designed to adjust automatically, ensuring that the loop remains symmetrical throughout the scan.

#### Adjustable wrap rollers

Northlight controls how much contact film has with the sprockets. If film is excessively shrunken (<1%), you can engage fewer sprocket teeth. The new sprocket design and adjustable rollers allow transport of film shrunken up to 3%.

#### Registration pins

Registration pins are available for 0, 1, 2 and 3% shrinkage. For 35mm film stocks, these are available in B&H and KS types.

#### Capstans

For non-standard or very damaged films, you can perform completely pinless transport by fitting capstans in place of the sprockets.

#### Alternative sprockets

In rare cases where film is shrunken more than 3%, you can fit alternative sprockets.

## Handle with care

New features mean that the Northlight scanner treats your film with the care and attention it needs, no matter how damaged or delicate it is.

### Gate actuation

The film gate now has a linear encoder that provides continuous positional feedback. This allows the Northlight software to instantly adjust the gate actuation if required, reducing the need for you to intervene when scanning damaged material.

The new perf hunting feature also detects if a perf is not placed correctly and moves the film slightly before it attempts to engage the gate again.

### Pressure/stripper plates

The stripper plate profile in the new projector is curved and this accurately guides the film during transportation. There is also a greater space between the plates, which allows the scanner to transport thick tape splices.

### Pinless scanning

Overscan gates are available for both 16 and 35mm film stocks. These gates offer a much wider scanning aperture and are used without registration pins.

The Northlight software stabilises the images at scan time and outputs the frames at a standard aspect ratio. Alternatively, you can choose not to stabilise the images and output the frames with an over-sized aspect ratio instead, so that you can apply post-scan stabilisation and cropping.



Image from the overscan gate

## Accurate focus every time

Under normal circumstances, the Northlight gate holds the film flat and the focus remains optimal. However, if the film you are scanning is curved, warped or damaged it may not sit in the same plane as modern material and the focus may be compromised slightly.

The new gate has a manual focus adjustment so that you get flawless focus on every frame, with a default position that allows you to reset focus fast and easily.

## Greater control

The Northlight control software includes many archive-related software features. You have complete control over:

### Transport dynamics, relative to the condition of the stock you're scanning

Control the speed at which film is slewed between the spools or stepped one frame at a time between the sprockets.

### Pinning force

Adjust the default pinning force easily if the film is particularly delicate or damaged.

### Number of gate engage errors

If film contains problematic splices, increase the number of errors allowed so that the scan can continue without stopping.

### Minor adjustments of the perf position

When the film is stationary, make adjustments to the perf positions to help you scan through badly spliced sections of film.

### Single frame sequence scanning

For damaged sections of film where operator assistance is required (for example, a bad tape splice), progress the scan sequence manually on a frame-by-frame basis. It's easy to switch between single frame and automated sequence scanning as required.

## Availability

The new projector is available on both Northlight 1 and Northlight 2 scanners, and can also be purchased as an upgrade to existing scanners.

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