

## Koworase X Multispectral UV CR Plate Erase System



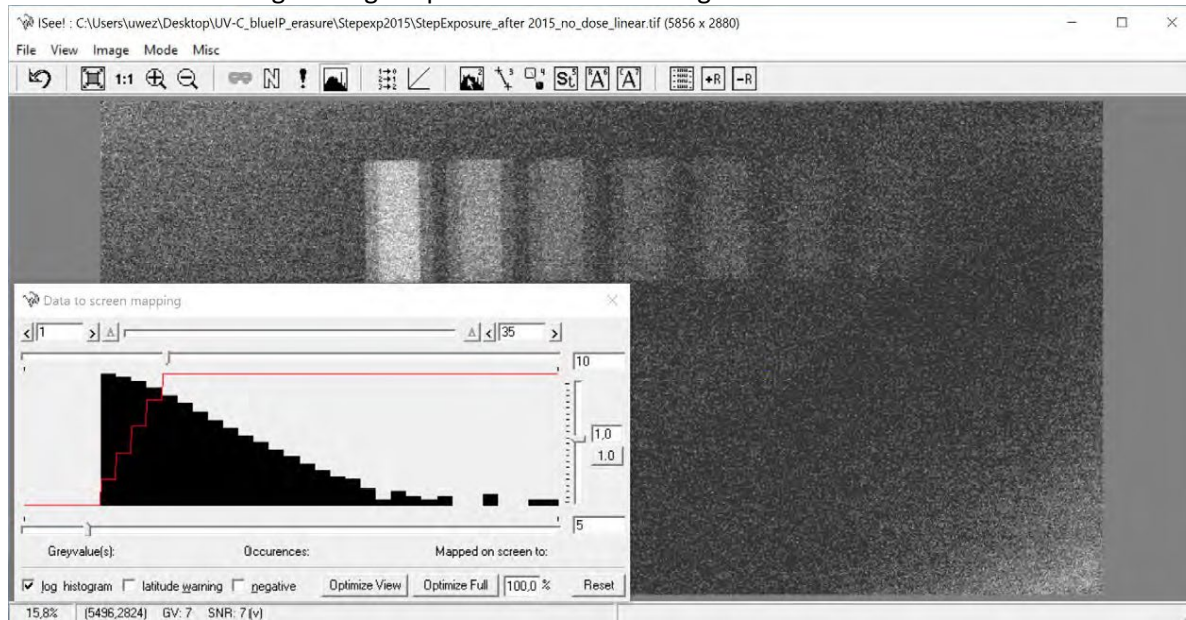
The Koworase X erases burn-in artifacts (i.e. x-ray exposures) from Computed Radiography (CR) phosphor plates with UV radiation.

### Erasure Process

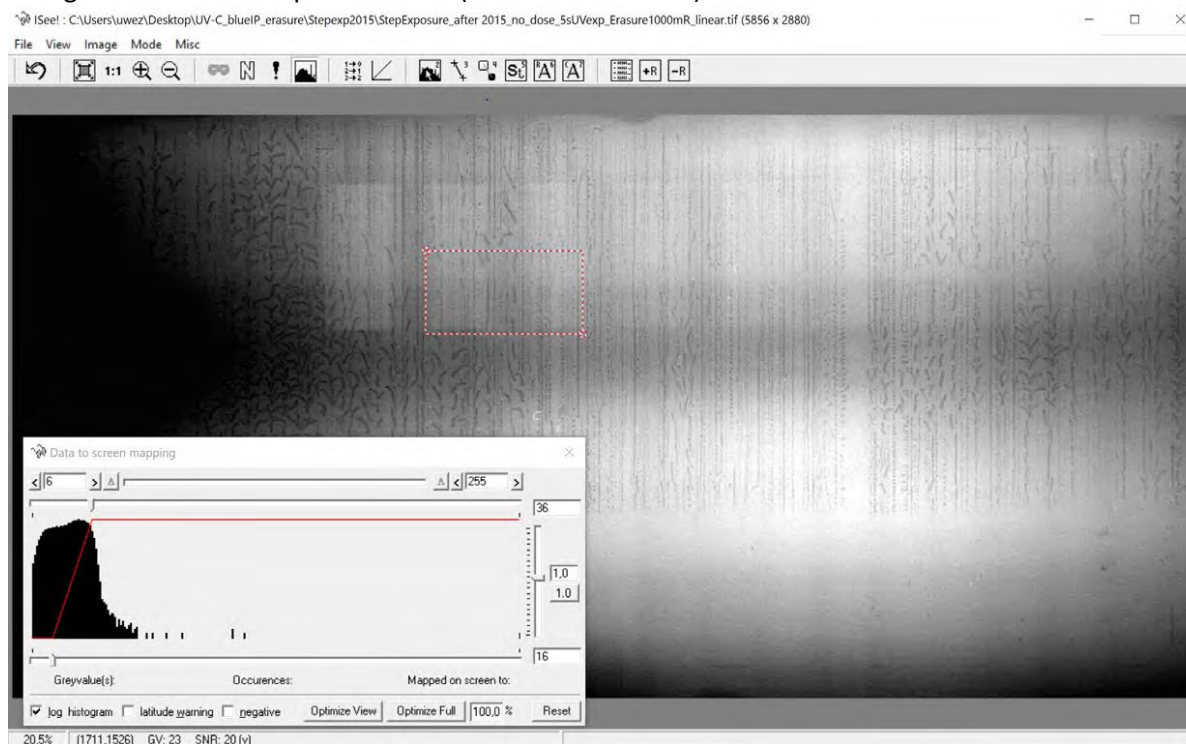
- UV light exposes IPs.
- White and Red (and Green) LEDs erase IP signal.
- Burn-In by high contrast X-Ray exposures are overlaid by a flat high dose UV-C exposure (1 minute).
- Burn-In of X-Ray shadows is reduced.

## Case Study

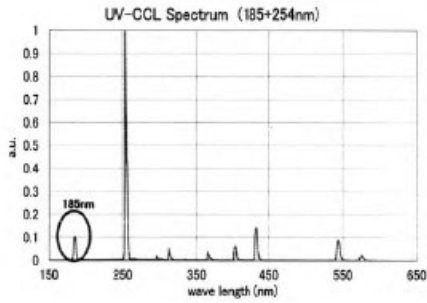
Problem: Burn-In of high dosage exposures results in background noise



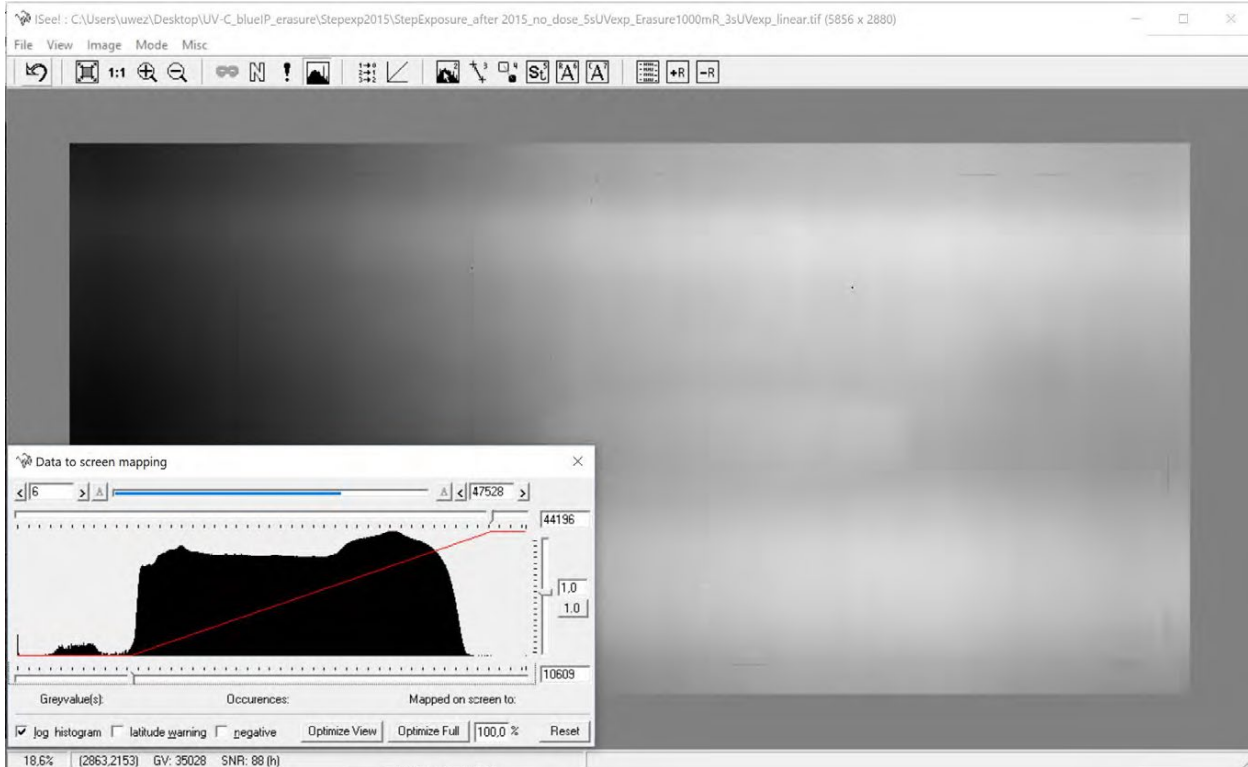
Background after incomplete erasure (1000mR in CRxFlex) with white LEDs



- First trials with 365nm (UV-A) were unsuccessful.
- Second trial with UV-CCFL spectrum - 254nm (UV-C) worked surprisingly good.



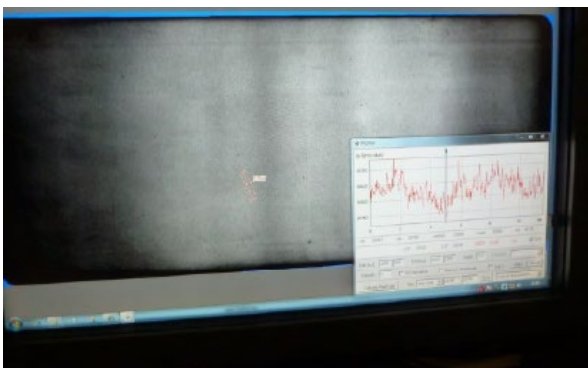
## UV-C exposure after erasure



The final test results summarized using the example of an IPU film:

According to the standard, the gray value difference may be 1%.

In the most unfavorable point (with the greatest penetration) 0.5% was measured, machining with one minute at level 1 and 5 minutes at level 2.



# NDT Supply.com, Inc.

7952 Nieman Road  
Lenexa, KS 66214-1560 USA



Another test showed that the properties of the film (sensitivity) were not influenced by the erasure process.

The Koworase X has been tested and proven effective for erasure per ASTM E 07 on Carestream, Durr NDT and GE phosphor imaging plates.

Dimensions: 20" x 14.5" (500 x 370 mm)



Phone: 913-685-0675  
Fax: 913-685-1125

sales@ndtsupply.com  
www.ndtsupply.com