



# **KODAK SONORA NEWS**

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**Kodak**

# Kodak Newspaper Plates US&C

	<b>Sonora News</b>	<b>Thermal News SP</b>	<b>Libra</b>
Plate Type	Non-ablative, write the Image, Press Ready	Non-ablative, write the Image, no pre-heat, no pre-wash, conventional processing	Non-ablative, write the Image, no pre-heat, no pre-wash, conventional & easy chem processing
Substrate	EC grained and anodized aluminum substrate	EC grained and anodized aluminum substrate	EC grained and anodized aluminum substrate
Interleaf Sheets	Yes Testing without in process	Yes	Yes
Imaging	Thermal 800-850 nm 150 mJ	Thermal 800-850 nm 95-120 mJ	Violet 405 nm 30-40 mJ
Contrast	Strong Contrast, 8 point font readable Latent image stability 2 weeks	Strong contrast post processing	Strong contrast post processing
Safe Light	1hr white light 8 hrs UV cut sleeves 24 hrs G10 safe light	4hr white light	G10 safe light required

# Kodak Newspaper Plates US&C, cont.

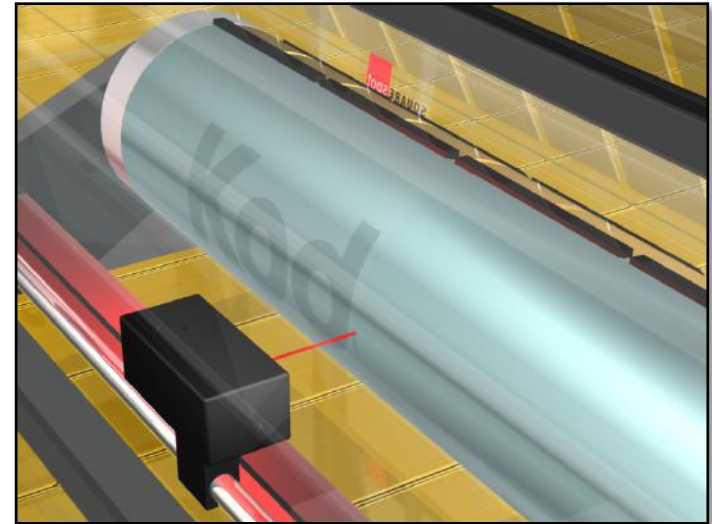
	Sonora News	Thermal News SP	Libra
Resolution	<ul style="list-style-type: none"> <li>• 1200 dpi 3-97% @ 150 lpi 36 micron FM</li> <li>• 2400 dpi 1-98% @ 200 lpi 20 micron FM</li> </ul>	<ul style="list-style-type: none"> <li>• 1200 dpi 3-97% @ 150 lpi 36 micron FM</li> <li>• 2400 dpi 1-98% @ 300 lpi 20 micron FM</li> </ul>	2-98% @ 200 lpi
Optical Punch/Bender Qualification	Yes Upgrades maybe required	Yes	Yes
Bar Code Reader Qualification	Yes Upgrades maybe required	Yes	Yes
Run Length *Up to	200K - web 75K direct litho 25K UV inks - web	500K	350K conventional processing 300K easy chem processing

# Kodak Sonora News Imaging Set-up

- Imaging parameters specific per device
  - Power
  - Drum speed
- Verify head position
- Run focus test
  - Off press evaluation
- Run banding tests
  - Off press evaluation
- Create plate linearization curve
  - Established values
- Printout density will be  $\geq 0.380$  (cyan filter)

# Kodak Sonora News Plate Exposure

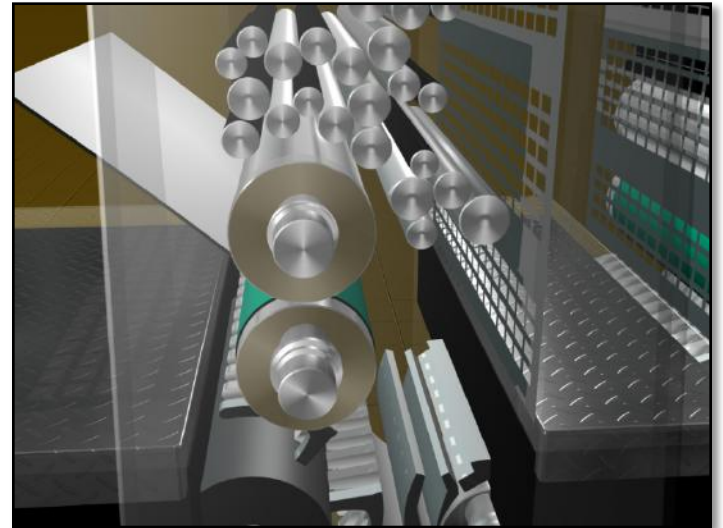
- **Sonora** News Plates are negative (write-the-image) plates
- There is no ablation so a debris removal system is not required
- Laser energy writes the image into a specially developed ultra-thin coating
  - 800 - 850 nm sensitivity
  - 150 mJ/cm<sup>2</sup> imaging sensitivity
- During imaging of the plate, the thermal laser writes the image, cross-linking the polymer resin, creating the hardened robust image area.



**Laser energy writes image  
into coating**

# Kodak Sonora News Develop on Press (DOP)

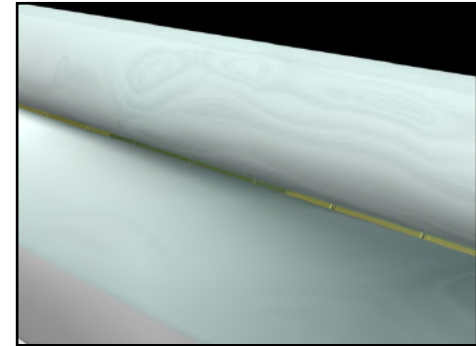
- Plate mounts like any other plate
- Works with manual or auto load systems
- Image contrast is distinct enough to read down to 8 pt. type for cylinder identification



**Plates are mounted directly on press**

# Kodak Sonora News Develop on Press (DOP)

- The fountain rollers and ink rollers are engaged, covering the entire plate with fountain solution and ink.
- The fountain solution prepares the coating of the non-image area coating to be physically removed.
- The tack and shear of the ink transfers the un-imaged coating to the blanket.
- Existing press start up sequences are acceptable
- Works with all dampener configurations/formats



Dampening rollers engaged



Ink rollers engaged

# Kodak Sonora News Develop on Press (DOP)

- Through a purely physical interaction the non-imaged coating is removed from the plate and transferred to the blanket.
- This is a physical, rather than chemical process, which ensures a very wide latitude for press chemistry and press setup conditions, and eliminates the variability associated with traditional wet processing systems.

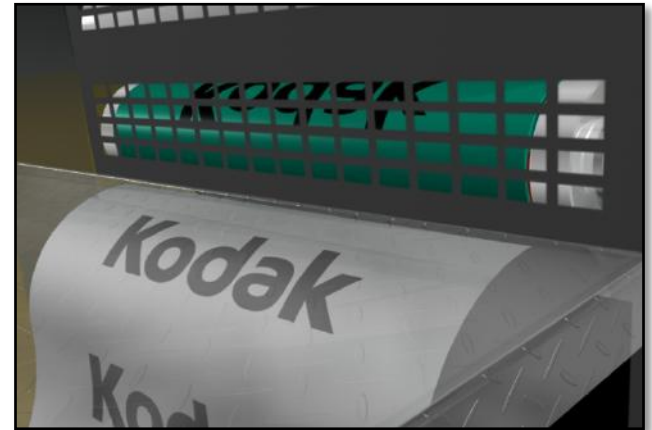


Transferring coating to blanket

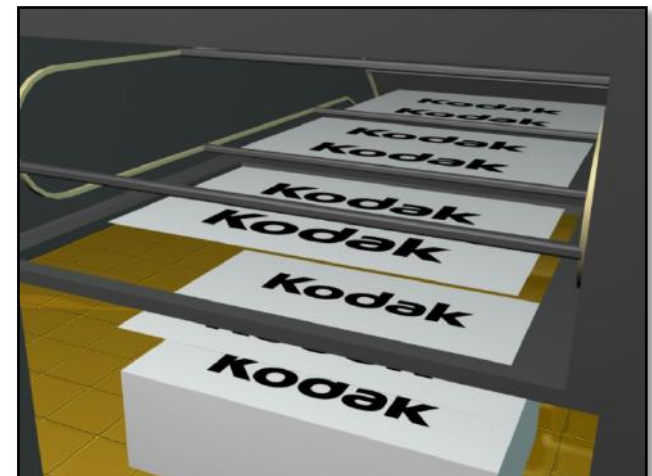


# Kodak Sonora News Develop on Press (DOP)

- Once on impression, the coating is transferred from the blanket to the web with the coating carried away in the first few make-ready copies with no contamination to the ink and fountain systems.
- Make-ready on web press's has shown to be equal to or slightly less than wet processed plates
- Registration and color is adjusted like any other plate.
- Plate now behaves like a typical wet process plate.
- There are no requirements for specific fountain solutions.
- There are no requirements for additional fountain tank maintenance or filter changes.



First few make-ready copies remove the non-imaged coating



After a few make-ready copies the background is clean

# Kodak Sonora News Plate Handling

- Handle as with any thermal plate
  - During imaging and post imaging steps, manage plates to minimize any handling scratches or scuffs that could influence roll up on press
- Adhere to white and yellow light specifications
  - 1 hr white light
  - 24 hours yellow safe light
- When staging plates for pressroom keep plates stacked neatly avoiding excess movement
- Stack plates in pressroom with outer plate facing stack of plates to minimize exposure to room lighting

# Kodak Sonora News Press Set-up

- No changes are required from existing press settings
  - Press start-up sequences used for existing wet-process plates are sufficient for Sonora news
  - Ink/water balance equal to existing wet process plates
    - If adjustments are required will be minimal and typically less water required
- No changes to ink and or founts required
  - Works with all existing ink sets including UV
  - Works with all existing founts and pH ranges
- Following DOP Sonora News has same feel and characteristics as any wet processed plate
  - Existing plate cleaners, press washes and blankets washes may be used

# Customer Challenges/Feedback

- Adhering to safelight requirements
  - Stack plates face/face
  - Racks/cabinets to store plates
  - UV blocking filters/G10 lighting
- Availability of plates without interleaf sheets
  - Testing currently in process
- Longer run lengths with UV inks
  - Product improvement currently being tested
- Stronger image contrast post imaging
  - Product development currently in process
- Inability to read tonal scale post imaging
  - Elimination of wet process variables

**THANK YOU!**

