

CO-RES SCREENING

outstanding balance between printing ease and higher resolution plus higher productivity.

TAFFETA SCREENING

reduced unevenness and graininess, for the most demanding printing applications.

FUJIFILM

Co-Res & TAFFETA Screening Technologies

WORLD-CLASS SCREENING
*for the most demanding
printing applications.*



Higher quality and easier to print. Fujifilm brings two new screening products to the printing industry, the revolutionary Fujifilm Co-Res screening and next generation Fujifilm Taffeta FM screening. These screening technologies produce finely detailed images with rich vibrant colors, realistic flesh tones and smooth flat tints all without moiré or visible screening patterns. Together, these Fujifilm screening technologies provide users with the greatest options and ability to deliver superior printed results. Co-Res screening delivers an outstanding balance between printing ease and higher resolution plus higher productivity. Taffeta FM screening goes further than ordinary FM screening technologies by reducing unevenness and graininess, plus improved printability for the most demanding printing applications.



Co-Res & Taffeta Features:

Co-Res Quality Mode

- 300 lpi printing is achieved with the same effort and process control as traditional 175 lpi printing
- Significant enhancement of image quality with 300 lpi screening @ 2400 dpi
- Much less prominent rosette pattern
- Superior image fullness due to improved density range
- Ability to run higher ink density settings
- Superior highlight tone reproduction
- Smoother fleshtones, tints and gradations

Co-Res Productivity Mode

- Enhanced productivity by 1.4 times the normal output capacity using lower resolutions (1219 dpi)

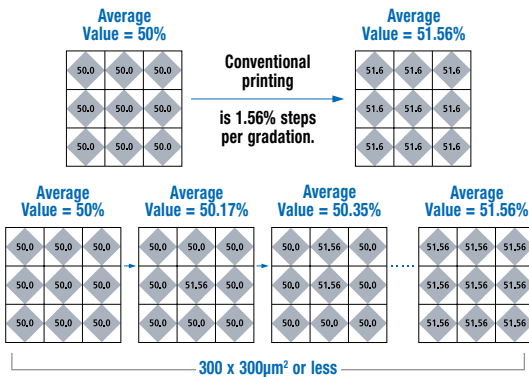
- No degradation in image quality vs. traditional 150-175 lpi screening
- Lower network and storage bandwidth requirements
- Faster RIP processing times
- Gain additional production capacity with very little expense – and no additional floor space

Taffeta

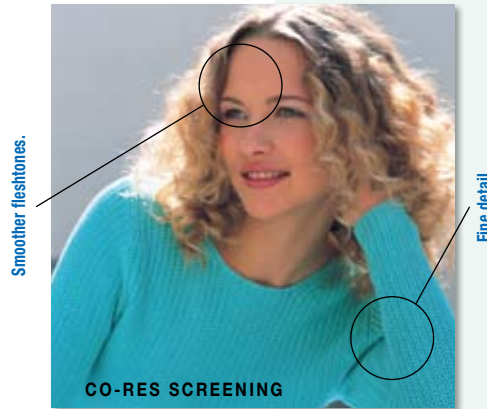
- Optimized second order FM screening
- No rosette pattern or screen angle
- Superior image fullness due to improved density range
- Smoother fleshtones, tints and gradations thanks to Fujifilm Image Intelligence™
- Dramatic reduction of image grain versus competitive FM solutions
- Superior highlight tone reproduction
- Ability to run higher ink density settings

CO-RES MULTI-TEMPLATE TECHNOLOGY

Fujifilm's breakthrough Co-Res Screening uses Multi-Template Technology that renders obsolete the industry standard formula: $(\text{dpi}/\text{lpi})^2 = \text{gray levels}$. Before Co-Res, 2400 dpi @175 lpi was necessary to achieve an acceptable 256 levels of gray – a common spec for much of today's commercial printing. Fujifilm engineers have designed Multi-Template Technology to produce the same perceived 256 gray levels with only 1219 dpi output resolution. This results in the same 175 lpi print quality – actually better – that you achieve with conventional AM screening, but less data to process and faster imaging time means more output in less time – up to 43 full-sized plates per hour with Saber Violet! In addition, Co-Res is seamless to press operation, requiring no significant changes to pressroom procedures already in place. When you do the math, it all adds up to a strong competitive advantage that's easy to implement and can provide immediate benefits.



Co-Res Multi-Template Technology makes possible printing of 0.17% steps for 9 gradations.



SPECIFICATIONS:

COMPATIBILITY

TAFFETA

FUJIFILM DEVICES

- Javelin Series
- Dart Series
- Violet Saber Series (in development)
- FinalProof

WORKFLOWS

- Fujifilm Celebrant
- Proof Director Pro for FinalProof
- Rampage
- TrueFlow

SPOT SIZES

- 20, 25, 30 micron

CO-RES

FUJIFILM DEVICES

- Javelin Series
- Dart Series
- Violet Saber Series
- FinalProof

WORKFLOWS

- Fujifilm Celebrant
- ProofManager for FinalProof – v4.2 or above
- Rampage
- Proof Director Pro for FinalProof
- TrueFlow

THERMAL CTP RESOLUTIONS AND FINALPROOF

- 2400 dpi
- 2438 dpi
- 2540 dpi

VIOLET RESOLUTIONS

- 1200 dpi
- 1219 dpi
- 2400 dpi
- 2438 dpi
- 2540 dpi

Co-Res & TAFFETA Screening Technologies

TAFFETA SCREENING

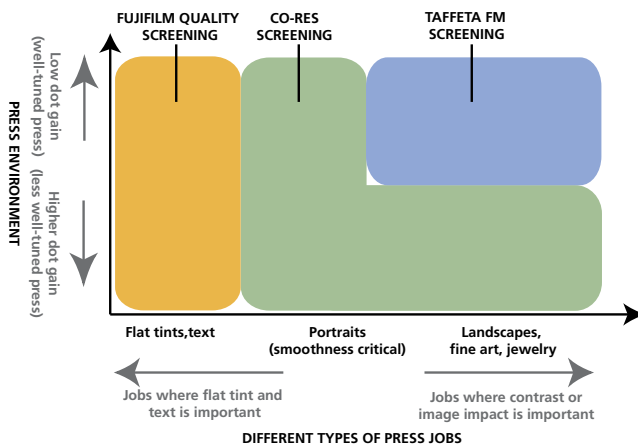
To address specific market needs the FujiFilm engineers applied the computer modeling technology engineered for Co-Res towards the development of stochastic or frequency modulated screening. All previous frequency modulated screening suffer in two distinct areas: the overall graininess of the screening and decreased printability. The engineers applied a two-step approach:

Step 1: Graininess optimization algorithm by simulating visual perception characteristics

Step 2: Dot pattern optimization algorithm to balance graininess & printability

The result is FM quality definition without the graininess!

Choose the screening that best fits your requirements.



THE FUJIFILM GREEN POLICY

We at Fujifilm believe that “sustainable development” of the Earth, mankind, and companies in the 21st century is an issue that must be addressed with the highest priority. As a socially responsible corporation, we actively undertake corporate activities with our environmental values in mind. We strive to be a dedicated steward of the environment and assist our customers and corporate partners in doing the same.



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