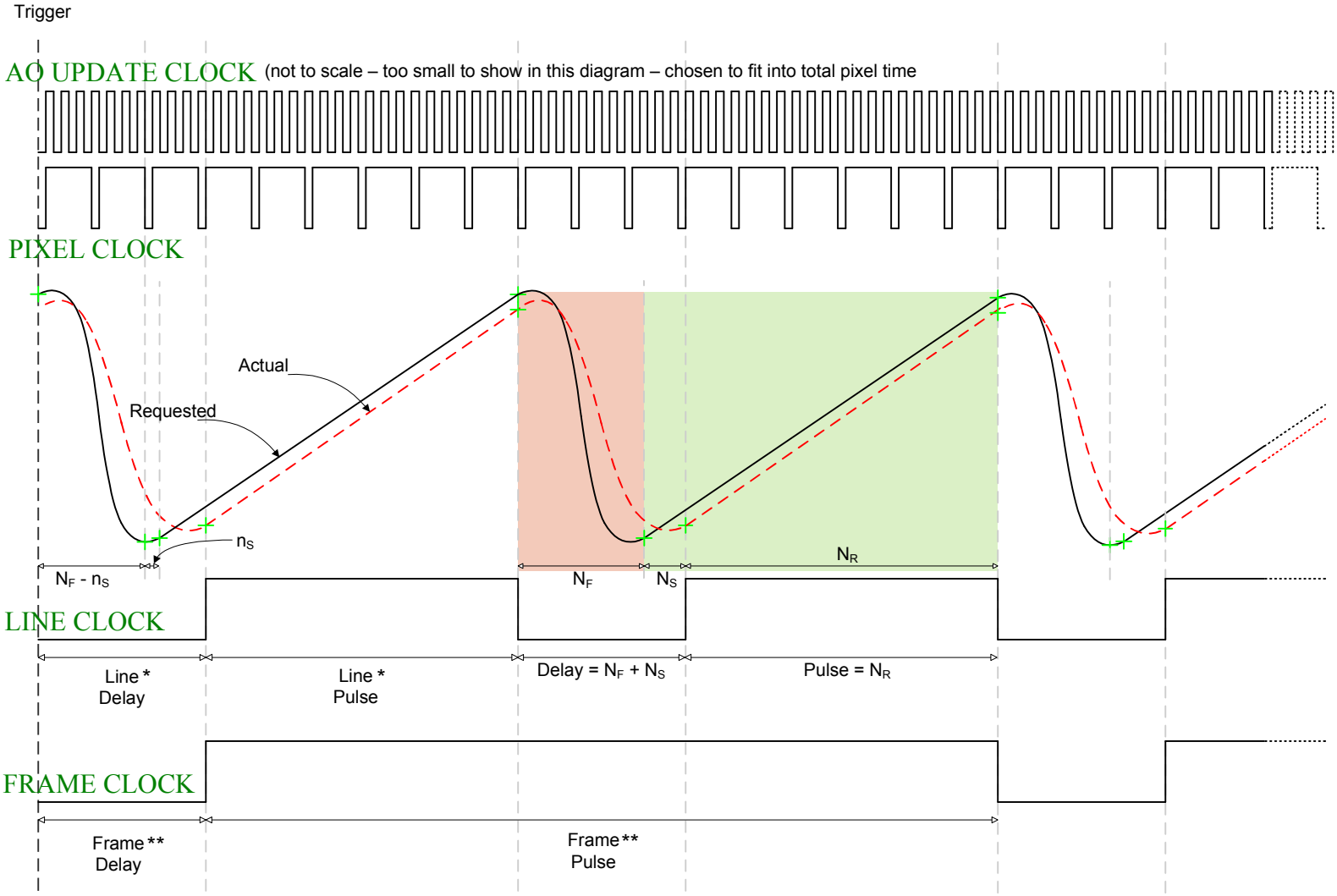

$$S_R(n) = W1_D(n - N_F) + \left(X0_D - \frac{1}{2}N_S W1_D\right) \quad N_F < n \le N_F + N_R + N_S$$

$$S_F(n) = \frac{X2_D}{2\pi}\left[W2_D n - \sin\left(W2_D n\right)\right] + W1_D n + X_{Start_D} \quad 0 < n \le N_F$$

n_S = Number of points between stationary point and linear ramp

$$= \frac{1}{W2_D}\left[\cos^{-1}\left(\frac{2\pi W1_D}{X2_D W2_D} + 1\right)\right]$$

N_S = Number of points in step response of galvanometer

N_F = Number of points in flyback

N_R = Number of points in linear ramp

* The line delay has an additional pixel delay and the line pulse has a reduction of a pixel delay, to ensure the unison of rising and falling edges.

$$LinePulse = \left[Width \times \left(PixelDelay + PixelPulse\right)\right] - PixelDelay$$

$$LineDelay = \left[n \times \left(PixelDelay + PixelPulse\right)\right] + PixelDelay$$

** The frame delay has an additional line delay and the frame pulse has a reduction of a line delay, to ensure the unison of rising and falling edges.

$$FramePulse = \left[Height \times \left(LineDelay + LinePulse\right)\right] - LineDelay$$

$$FrameDelay = \left[n \times \left(LineDelay + LinePulse\right)\right] + LineDelay$$