NTSC : $773{,}5 \times 263 \times 4 = 813722 = 2 \cdot 7 \cdot 13 \cdot 17 \cdot 263$

$773{,}5 \times 262{,}5 \times 4 = 812175 = 3 \cdot 5^{2} \cdot 7^{2} \cdot 13 \cdot 17$

$f = 50 = \cancel{2^2} \cdot 2 \cdot 5^2$

VGA : $800 \times 525 = 2^5 \cdot 3 \cdot 5^4 \cdot 7$

$$\text{CIE } 0/1 = \frac{2^5 \cdot 3 \cdot 5^6}{13 \cdot 17 \cdot 263} \quad ✓$$

$$\text{CIE } 2/13 = \frac{2^6 \cdot \cancel{3} \cdot 5^{\cancel{6}\,4} \cdot \cancel{7}}{\cancel{7^3} \cdot \cancel{3} \cdot \cancel{5^2} \cdot 7^2 \cdot 13 \cdot 17} = \frac{2^6 \cdot 5^4}{7 \cdot 13 \cdot 17} \quad ✓$$

480p : $858 \times 525 = 2 \cdot 3^2 \cdot 5^2 \cdot 11 \cdot 13 \cdot 7$

$$\text{CIE } 0/1 = \frac{2^{\cancel{2}} \cdot 3^2 \cdot 5^4 \cdot \cancel{7} \cdot 11 \cdot \cancel{13}}{\cancel{2} \cdot \cancel{7} \cdot \cancel{13} \cdot 17 \cdot 263} = \frac{2 \cdot 3^2 \cdot 5^4 \cdot 11}{\cancel{7} \cdot 17 \cdot 263} \quad ✓$$

$$\text{CIE } 2/13 = \frac{2^{\cancel{2}} \cdot \cancel{3^2} \cdot 5^{\cancel{4}\,2} \cdot \cancel{7} \cdot \cancel{11} \cdot \cancel{13}}{\cancel{7} \cdot \cancel{3^2} \cdot \cancel{5^2} \cdot 7^2 \cdot \cancel{11} \cdot \cancel{13} \cdot 17} = \frac{2^2 \cdot 3 \cdot 5^2 \cdot 11}{7 \cdot 17} \quad ✓$$

720p : $1650 \times 750 \times 50 = 2^3 \cdot 3^2 \cdot 5^7 \cdot 11$

$$\text{CIE } 0/1 = \frac{2^2 \cdot 3^2 \cdot 5^7 \cdot 11}{7 \cdot 13 \cdot 17 \cdot 263} \quad ✓$$

$$\text{CIE } 2/13 = \frac{2^3 \cdot 3 \cdot 5^5 \cdot 11}{7^2 \cdot 13 \cdot 17} \quad ✓$$

1080p : $2200 \times 1125 \times 50 = 2^4 \cdot 3^2 \cdot 5^7 \cdot 11$

$$\text{CIE } 0/1 = \frac{2^3 \cdot 3^2 \cdot 5^7 \cdot 11}{7 \cdot 13 \cdot 17 \cdot 263} \quad ✓$$

$$\text{CIE } 2/13 = \frac{2^4 \cdot 3 \cdot 5^5 \cdot 11}{7^2 \cdot 13 \cdot 17} \quad ✓$$

PAL Pattern 0

$$5\times(794{,}5\times 313\times 4)+22 = 2^3\times 3\times 13\times 19\times 839$$

$$5\times(794{,}5\times 312{,}5\times 4)+22 = 119\times 24953$$

$$f_{in} = 50M = 2\times 5^2\ M$$

576p $5\times 864\times 625\times 50 = 2^6\times 3^3\times 5^7$

$$CIE\ 0/1 = \frac{2^3\cdot 3^2\cdot 5^7}{13\cdot 19\cdot 839}$$ ✓

$$CIE\ 2/3 = \cancel{\frac{2^6\cdot 3^3\cdot 5^7}{13\cdot 19\cdot 839}} \quad \frac{2^6\times 3^3\times 5^7}{119\times 24953}$$ ✓

720p : $5\times 1980\times 750\times 50 = 2^4\times 3^3\times 5^7\times 11$

$$CIE\ 0/1 = \frac{2\times 3^2\times 5^7\times 11}{13\times 19\times 839}$$ ✓

$$CIE\ 2/3 = \frac{2^4\times 3^3\times 5^7\times 11}{119\times 24953}$$ ✓

1080p : $5\times 2640\times 1125\times 50 = 2^5\times 3^3\times 5^7\times 11$

$$CIE\ 0/1 = \frac{2^2\times 3^2\times 5^7\times 11}{13\times 19\times 839}$$ ✓

$$CIE\ 2/3 = \frac{2^5\times 3^3\times 5^7\times 11}{119\times 24953}$$ ✓

PAL Pattern 1

$$5 \times (794{,}5 \times 313 \times 4) + 28 = 2 \times 3^2 \times 7^2 \cdot 5639$$

$$5 \times (794{,}5 \times 312{,}5 \times 4) + 28 = 7 \cdot 11 \cdot 64489$$

$f_{in} = 50M = 2 \times 5^2 M$

576p: $\text{CLK } 0/1 = \dfrac{2^5 \cdot 3 \cdot 5^7}{7^2 \cdot 5639}$ ✓

$\text{CLK } 2/3 = \dfrac{2^6 \cdot 3^3 \times 5^7}{7 \cdot 11 \cdot 64489}$ ✓

720p: $\text{CLK } 0/1 = \dfrac{2^3 \times 3 \times 5^7 \times 11}{7^2 \times 5639}$ ✓

$\text{CLK } 2/3 = \dfrac{2^4 \times 3^3 \times 5^7}{7 \times 64489}$ ✓

1080p: $\text{CLK } 0/1 = \dfrac{2^4 \times 3 \times 5^7 \times 11}{7^2 \times 5639}$ ✓

$\text{CLK } 2/3 = \dfrac{2^4 \times 3^3 \times 5^7}{7 \times 64489}$ ✓