

Y', R'-Y', B'-Y' commonly used for analog encoding			
Format	1125/60/2:1, 720/60/1:1		525/59.94/2:1, 625/50/2:1, 1250/50/2:1
Y'	0.2126 R' + 0.7152 G' + 0.0722 B'		0.299 R' + 0.587 G' + 0.114 B'
R'-Y'	0.7874 R' − 0.7152 G' − 0.0722 B'		0.701 R' − 0.587 G' − 0.114 B'
B'-Y'	−0.2126 R' − 0.7152 G' + 0.9278 B'		−0.299R' − 0.587 G' + 0.886 B'
Y', P'b, P'r analog component			
Format	1125/60/2:1 (SMPTE 240M)	1920x1080 (SMPTE 274M) 1280x720 (SMPTE 296M)	525/59.94/2:1, 625/50/2:1, 1250/50/2:1
Y'	0.212R' + 0.701G' + 0.087B'	0.2126R' + 0.7152G' + 0.0722B'	0.299R' + 0.587G' + 0.114B'
P'b	(B'-Y') / 1.826	[0.5 /(1 − 0.0722)] (B'-Y')	0.564 (B'-Y')
P'r	(R'-Y') / 1.576	[0.5 /(1 − 0.2126)] (R'-Y')	0.713 (R'-Y')
Y', C'b, C'r, scaled and offset for digital quantization			
Format	1920x1080 (SMPTE 274M) 1280x720 (SMPTE 296M)	525/59.94/2:1, 625/50/2:1, 1250/50/2:1	
Y'	0.2126 R' + 0.7152 G' + 0.0722 B'	0.299 R' + 0.587 G' + 0.114 B'	
C'b	0.5389 (B'-Y') + 350 mV	0.564 (B'-Y') + 350 mV	
C'r	0.6350 (R'-Y') + 350 mV	0.713 (R'-Y') + 350 mV	