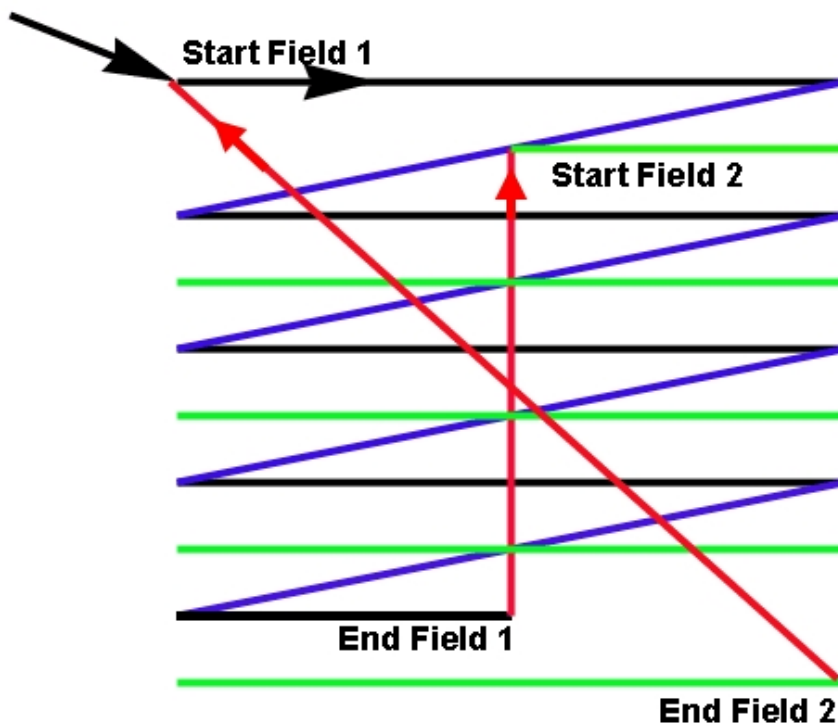


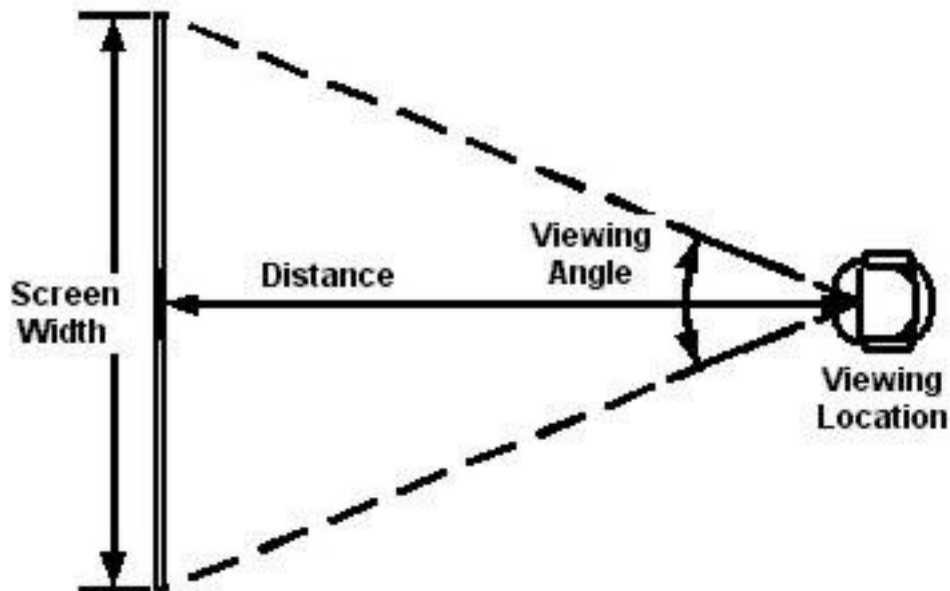
[illegible]

(scan)



1 / 15

Please Login to read more ... {/pub} {reg}

[illegible][illegible]

□□□□□□ 2 □□□□□□□□□□□□□□□□

50

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ 360 □ □ □ □ = 2πR

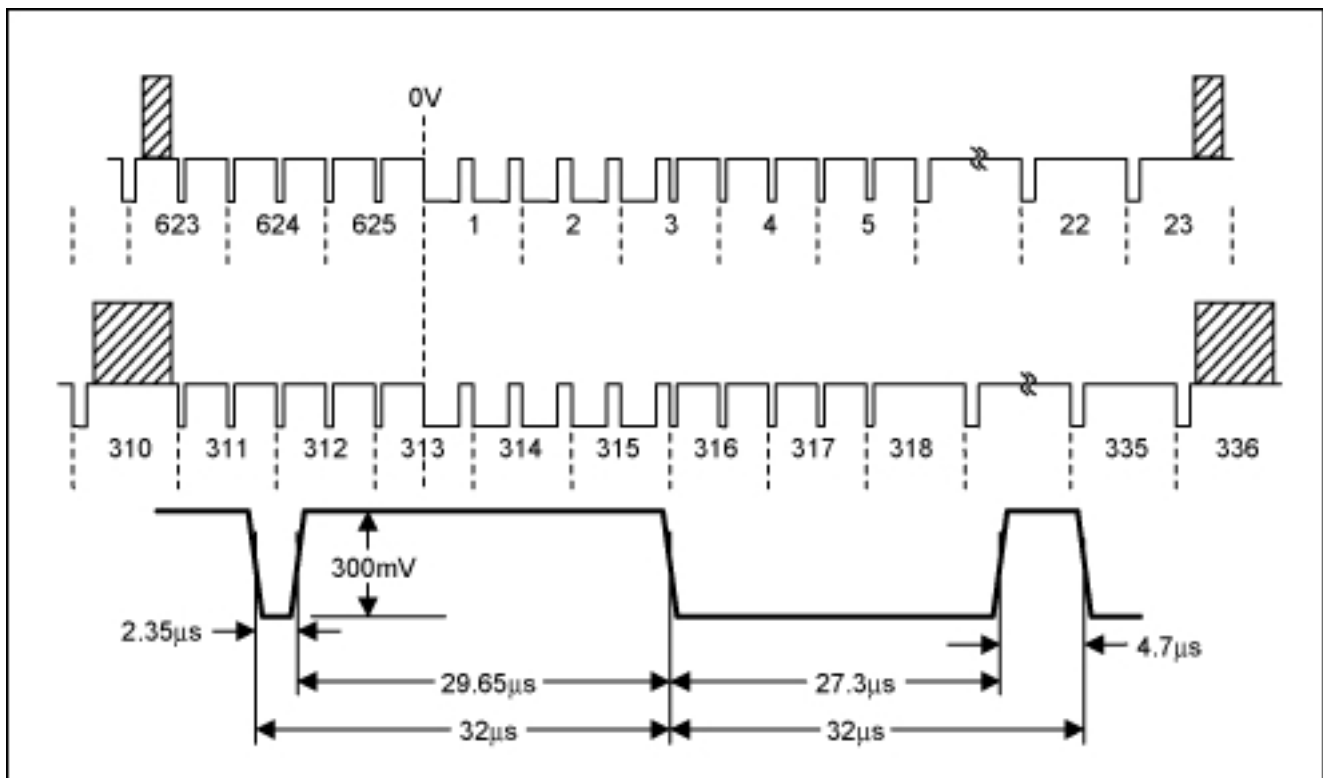
$$10 \text{ } = 2\pi R \times 10/360$$

$$30 = 2\pi R \times 10/360$$

$$R = (30 \times 7 \times 360) / (2 \times 22 \times 10) = 171.8 \text{ cm}$$

171.8 1.7

(Active Line)



3

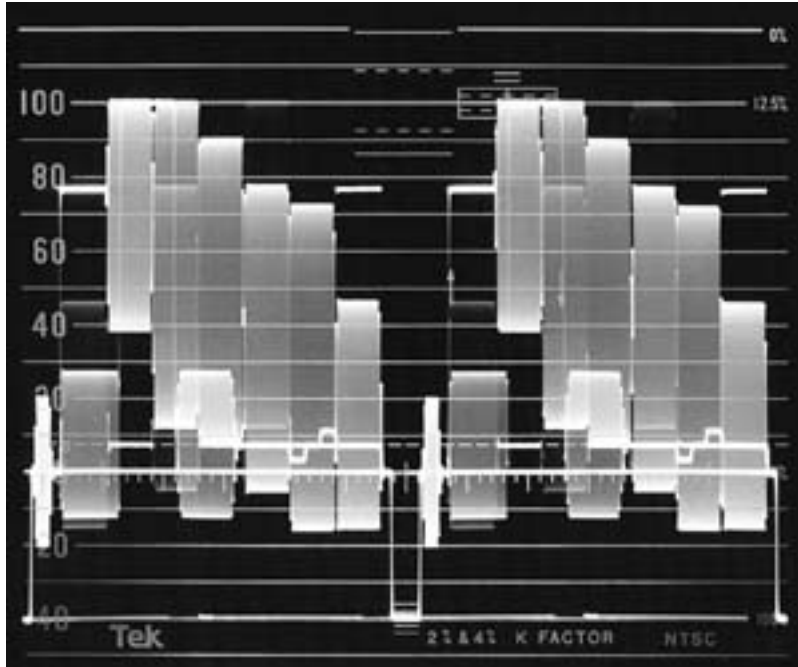
(Visual Resolution & Bandwidth)

(format res

$$525/60 = 485 \times 0.7 =$$

$$625/50 = 575 \times 0.7 = 40$$

4:3
 $525/60 = 339.5 \times 4/3 = 452.6$
 $625/50 = 402.5 \times 4/3 = 536.6$



4

$52/268 = 0.1940$
 $f = 1/t = 1/0.194 = 5.15\text{MHz}$
 $\text{MHz} = 402/5.15 = 78$

5 MHz CCIR
 VHS 240
 NTSC 4.2 MHz

1. $Y = 0.30R + 0.59G + 0.11B$ (R=0.0000, G=0.000000, B=0.000000)
2. $R - Y = 0.70$ (R=0.0000, G=0.000000, B=0.000000)
3. $B - Y = -0.89$ (R=0.0000, G=0.000000, B=0.000000)

YUV

$$Y = 0.30R + 0.59G + 0.11B \quad (R=0.0000, G=0.000000, B=0.000000)$$

$$R - Y = 0.70 \quad (R=0.0000, G=0.000000, B=0.000000)$$

$$B - Y = -0.89 \quad (R=0.0000, G=0.000000, B=0.000000)$$

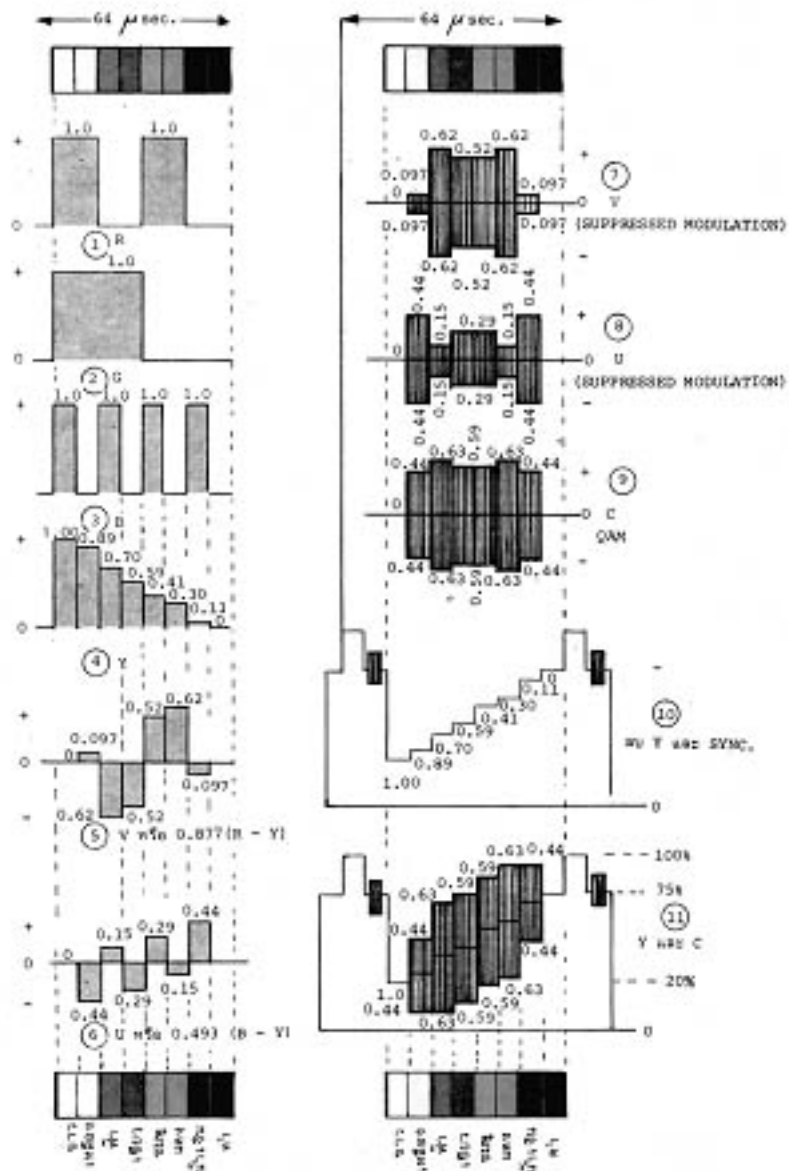
	R	G	B	Y	R-Y	B-Y	G-Y
Yellow	1.0	1.0	0	0.89	0.11	-0.89	0.11
Cyan	0	1.0	1.0	0.7	-0.7	0.3	0.3
Green	0	1.0	0	0.59	-0.59	-0.59	0.41
Magenta	1.0	0	1.0	0.41	0.59	0.59	-0.41
Red	1.0	0	0	0.3	0.7	-0.3	-0.3
Blue	0	0	1.0	0.11	0.11	0.89	-0.11
ค่าเฉลี่ยไม่เกิดเครื่องหมาย					0.47	0.59	0.27

1. Y, R, G, B (R=0.0000, G=0.000000, B=0.000000)

$Y, R-Y, B-Y$ (R=0.0000, G=0.000000, B=0.000000)

[illegible]

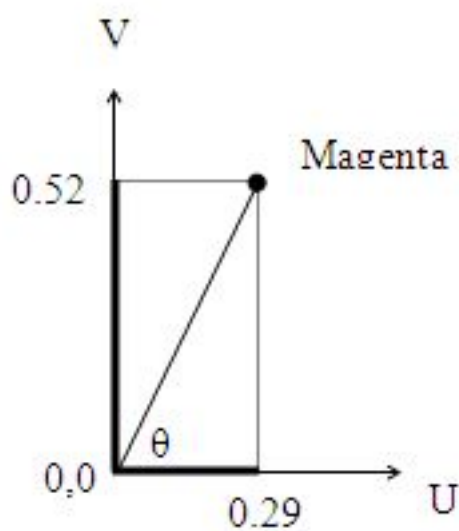
00000000 2 00000000000000000000000000000000 PAL



□□□□□ 6 □□□□□□□□□□□□ □ □□□□□□□□□□□□ PAL



* 00000000 0000000000000000 EBU 000000000000000000000000/000000

[illegible]

$$\tan^{-1} 0.52/0.29 = 60.8^{\circ}$$

[illegible]



Figure 10 Comparison of the NTSC and PAL (Phase Alternate by Line) Systems

The figure illustrates the difference between the NTSC and PAL systems. In the NTSC system, the phase of the color signal is not alternated by line. In the PAL system, the phase of the color signal is alternated by line to reduce color errors.

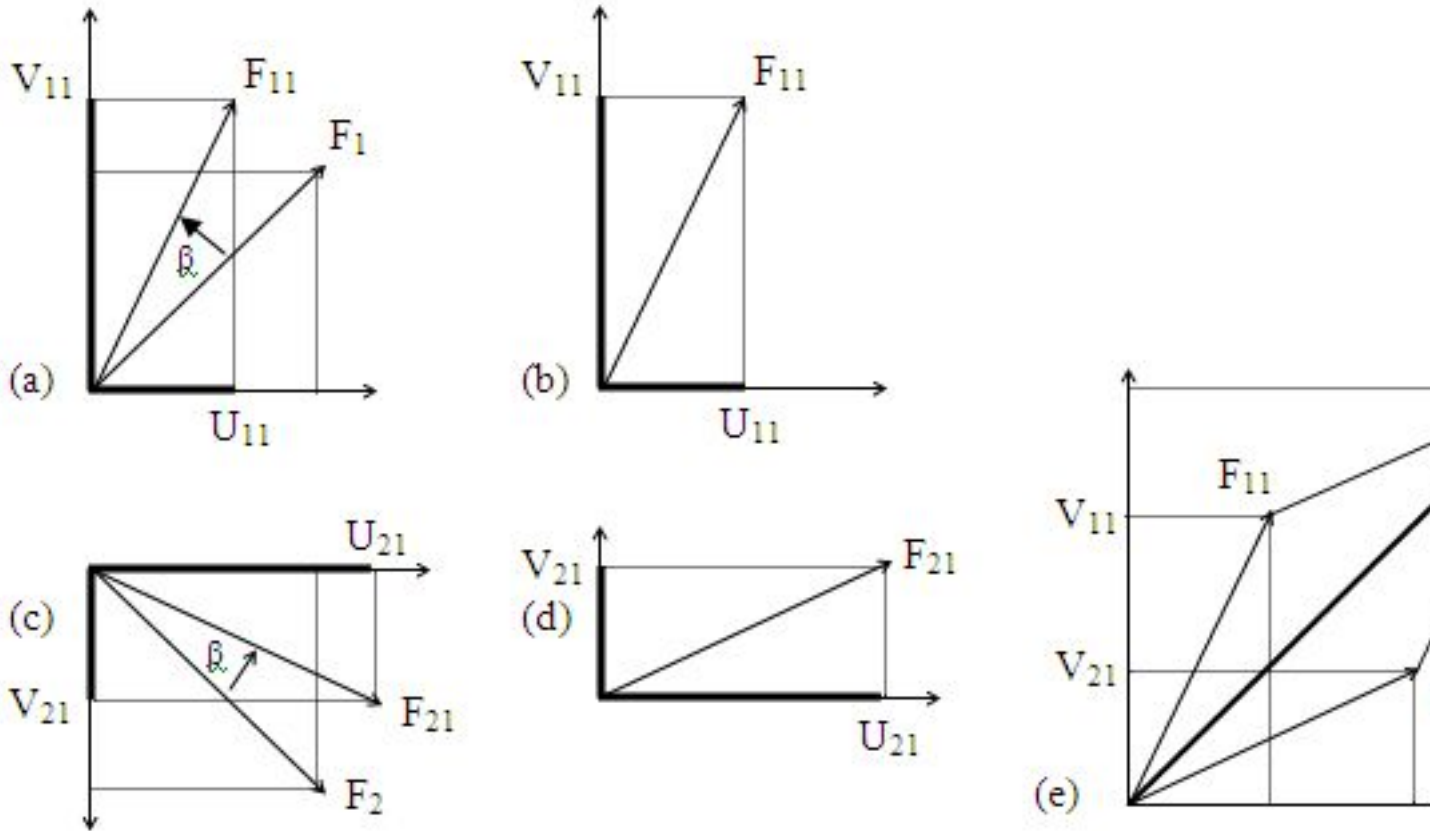


Figure 11 Comparison of the PAL and NTSC Systems

The figure illustrates the difference between the PAL and NTSC systems. In the PAL system, the phase of the color signal is alternated by line. In the NTSC system, the phase of the color signal is not alternated by line. The figure shows the color signal vectors F_1 and F_{11} for the PAL system and F_2 and F_{21} for the NTSC system.

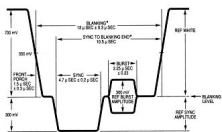
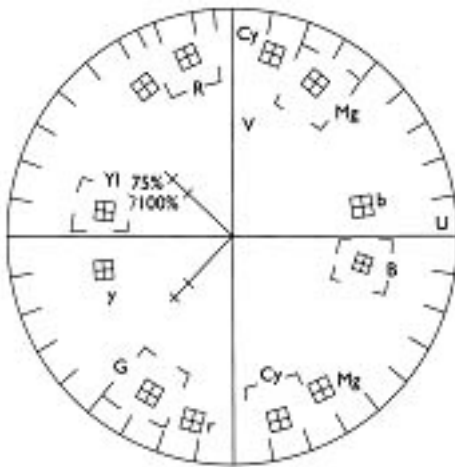
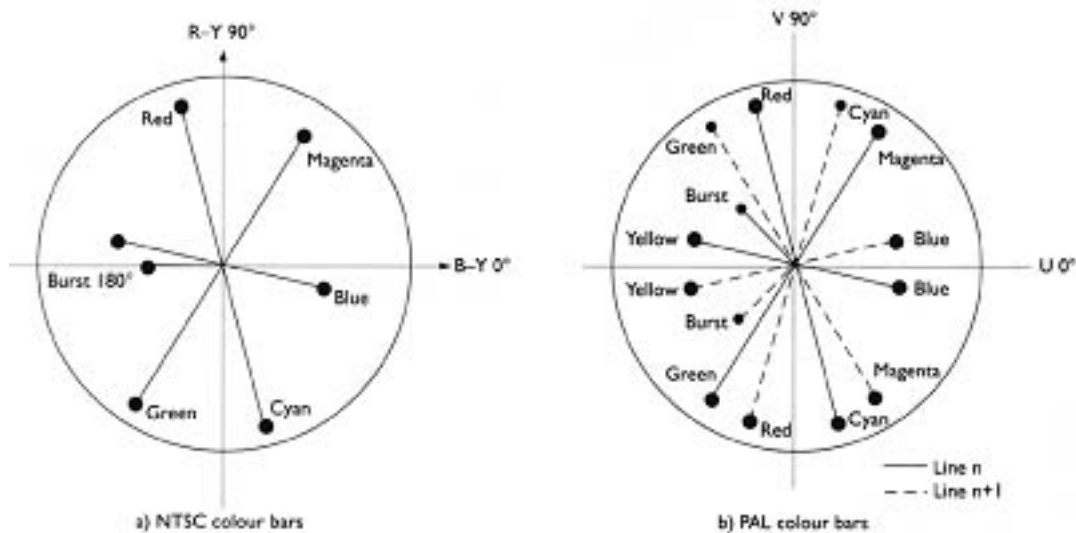


Figure 12 Comparison of the PAL and NTSC Systems

[illegible]

14

[illegible]

[illegible]



17

[illegible]

- □□□□□□ (Black Level)
 □□□□□□□□ 15-17 □□□□□□□□□□□□□□□□ 0 □□□□□□□□□□□□□□□□□□□□
- □□□□□□□□□□□□□□□□ (Peak White)
 □□□

[illegible]

[illegible][illegible]

- KG Jackson & GB Townsend, Butterworth Heinemann, "TV & Video Eng
- Peter Hodges, Focal Press, "Video Measurement"
- Peter Ward & Alan Bermingham, Focal Press, "Multiskilling for Television
- Michael Robin, Broadcast Engineering, Sep 1, 2002, "Video Resolution:1
- [REDACTED] [REDACTED], [REDACTED] [REDACTED], "[REDACTED]
- [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED], [REDACTED]
- [REDACTED] [REDACTED], "[REDACTED]" {