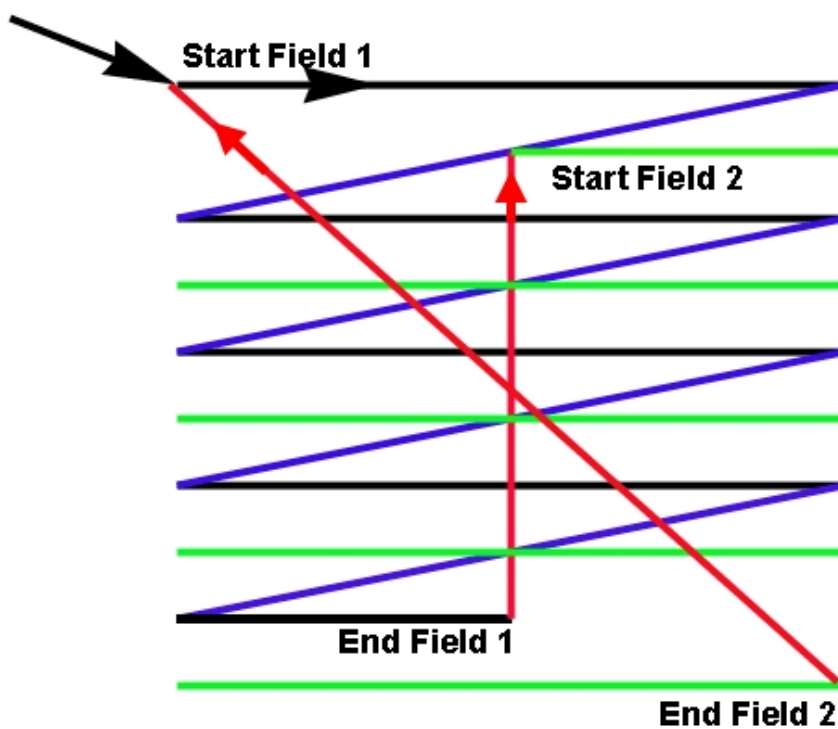


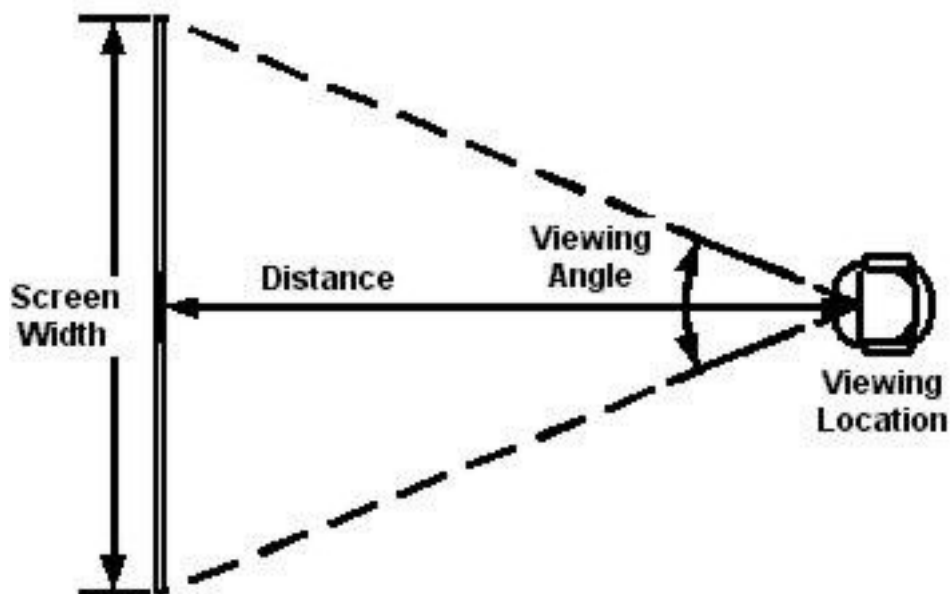
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[Please Login to read more](#) ... {/pub} {reg}
 □□□□□□□□□□□□□□□□ (Aspect Ratio)

[illegible][illegible]

50

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

TV Signal in Deep

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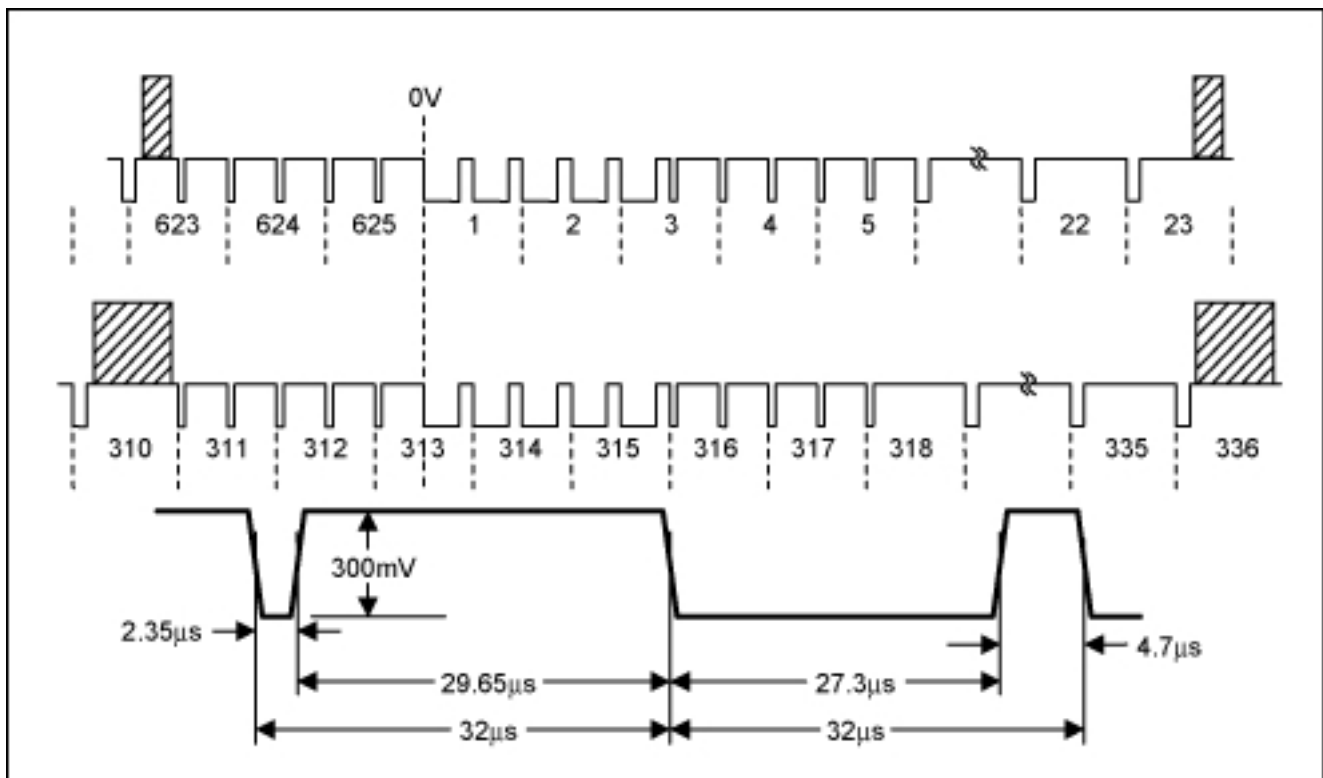
$$\text{Horizontal sync pulses} = 10 \text{ lines} = 2R \times 10/360$$

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

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

Horizontal sync pulses 171.8 cm 1.7 cm

Active Line



3

Visual Resolution & Bandwidth

(format res

525/60 = 485 x 0.7 =

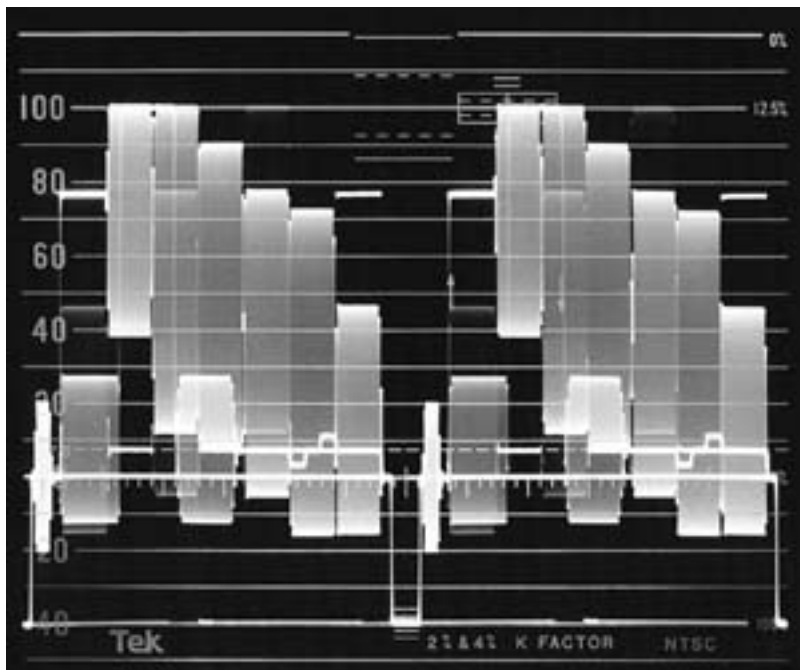
625/50 = 575 x 0.7 = 40

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

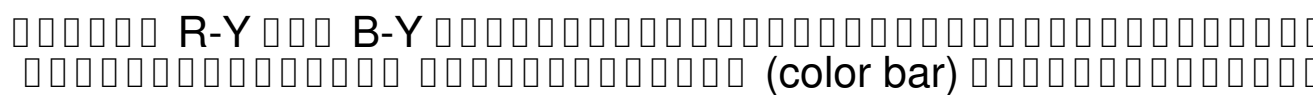


4

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

5 MHz
 VHS 240
 NTSC 4.2 MHz

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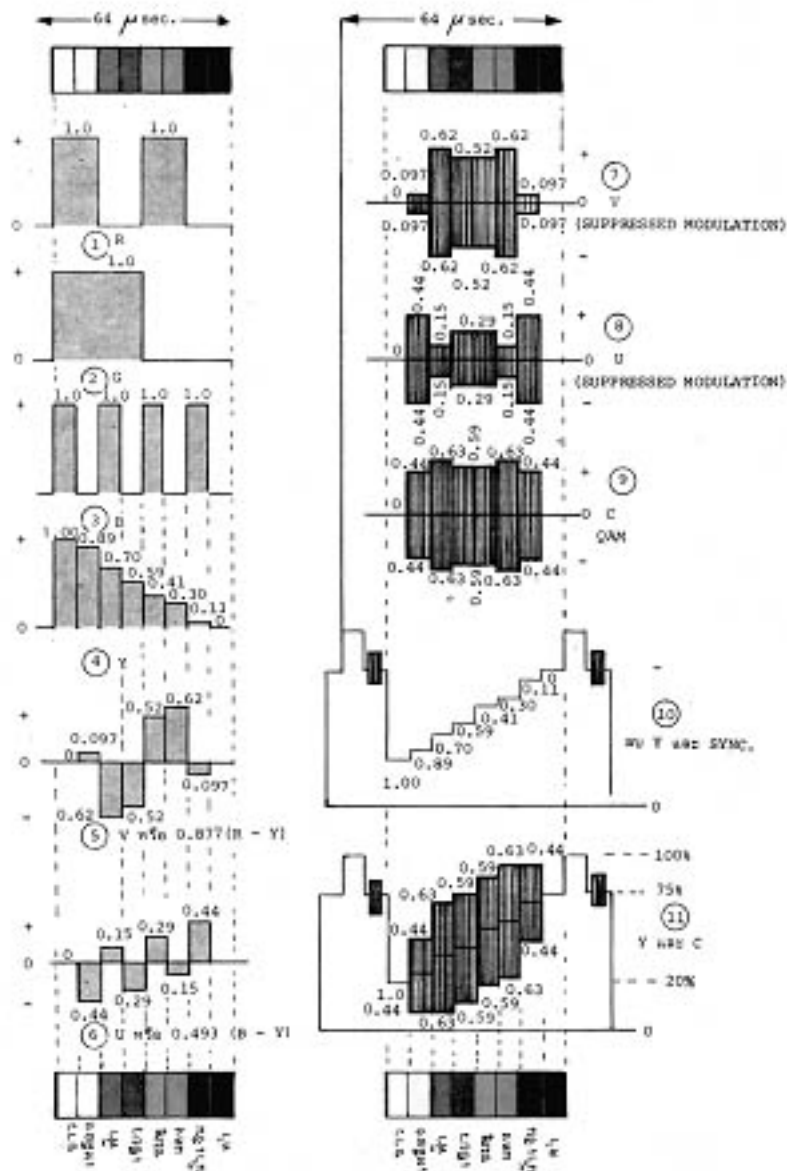
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00000000 2 00000000000000000000000000000000 PAL

TV Signal in Deep

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000000 6 0000000000000000 0 0000000000000000 PAL

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* EBU /

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

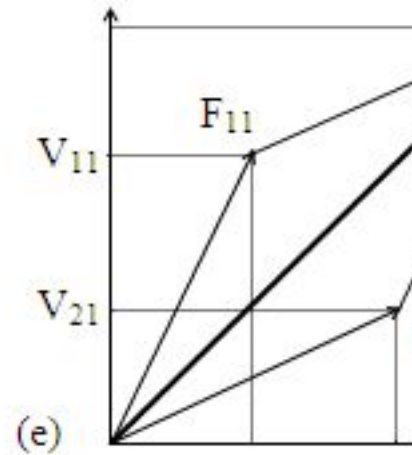
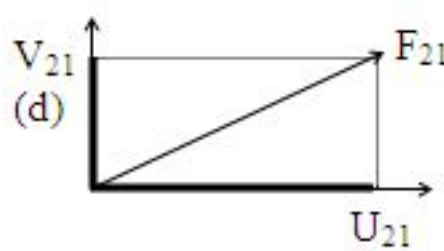
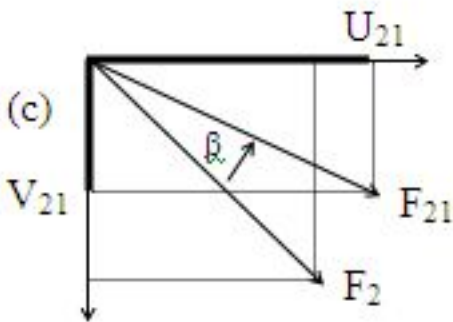
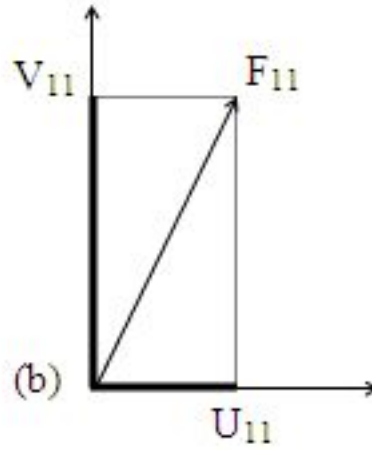
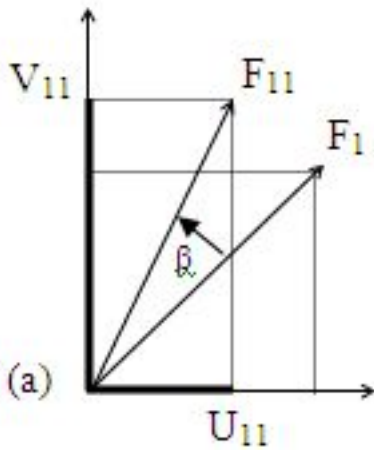
V **U**

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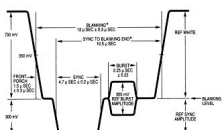
NTSC

PAL (Phase Alternate by Line)



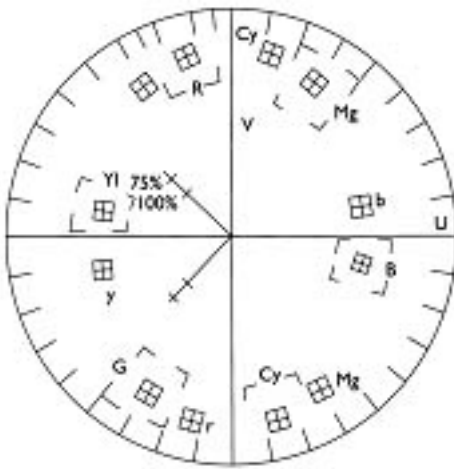
PAL

11 (a) F1 V U
F11 (b) F21 (d)
PAL

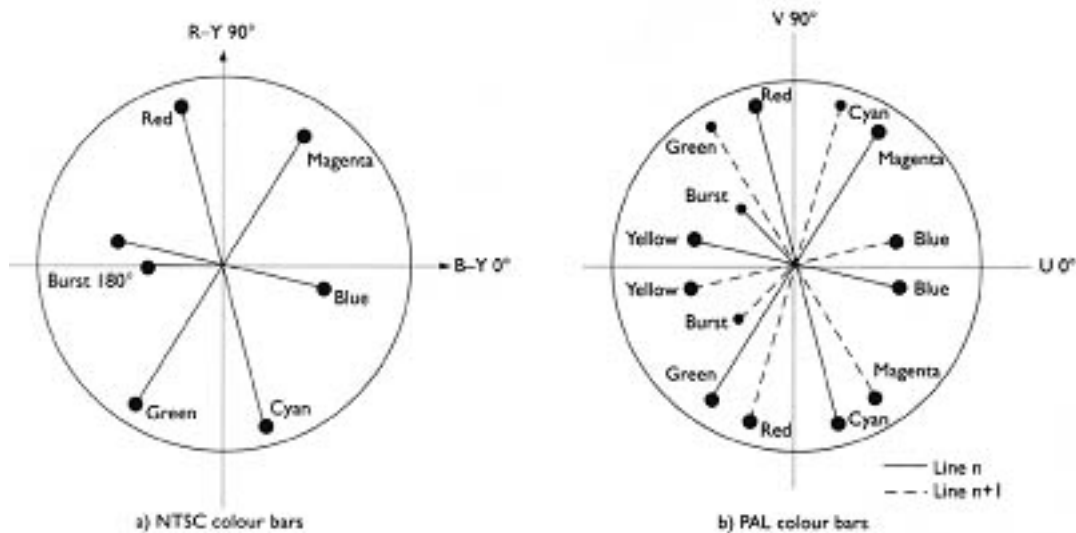


PAL

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17

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ITV