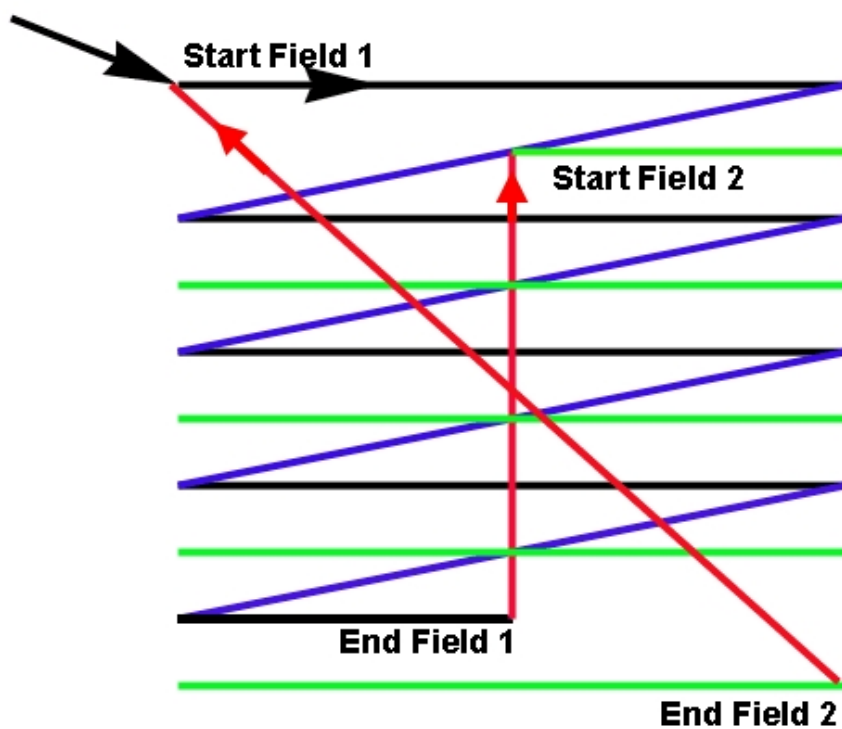


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[illegible][illegible]

(scan)



1

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A horizontal number line with arrows at both ends. It is marked with numbers from 0 to 100 in increments of 10. The numbers are: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100. There are tick marks for every 10 units.

[illegible]

50

$$\underbrace{\square \square \square \square \square \square \square \square \square \square \square \square \square \square \square \square \square \square}_{360 \text{ } \square \square \square \square} = 2\mathbb{R}$$

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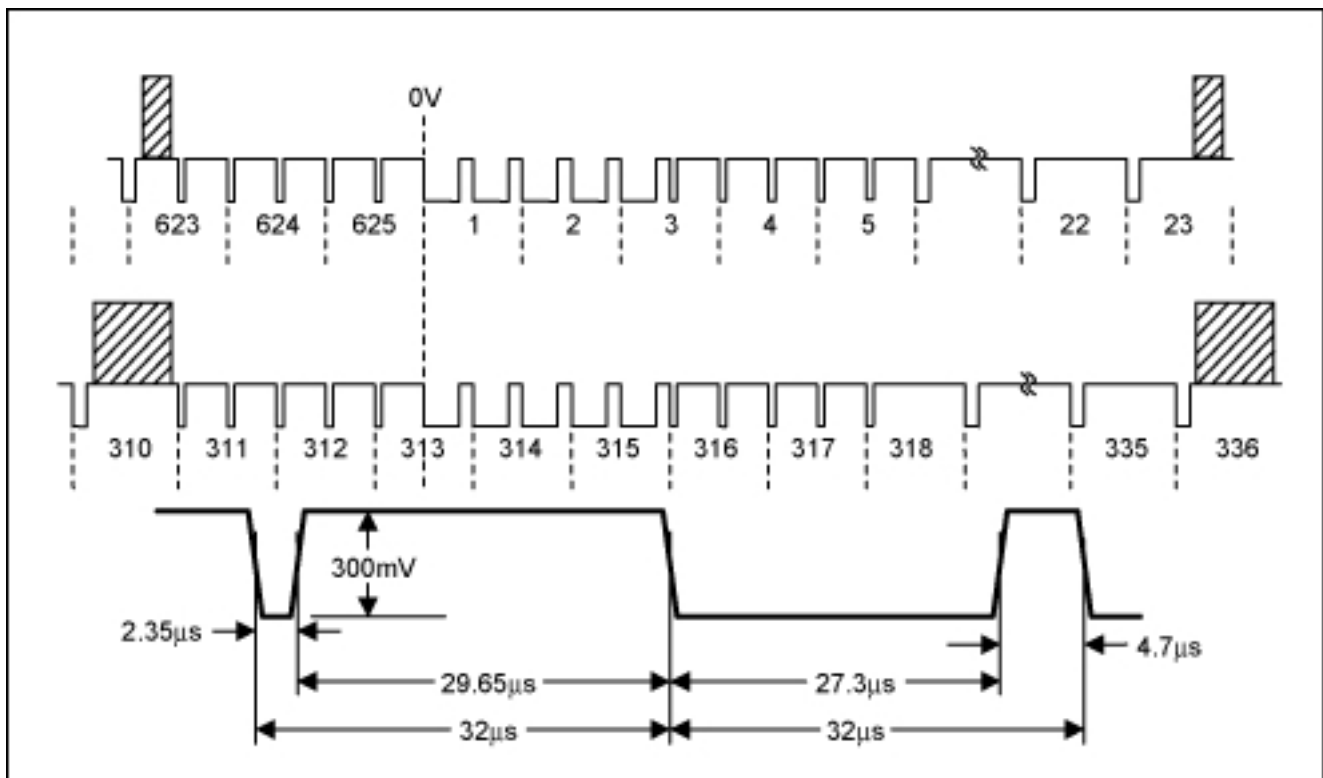
$$\text{Horizontal sync pulses} = 10 \text{ lines} = 2R \times 10/360$$

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

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

Horizontal sync pulses 171.8 cm 1.7 cm

Active Line



Horizontal sync pulses 3 cm

Visual Resolution & Bandwidth

Horizontal sync pulses (format res)

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

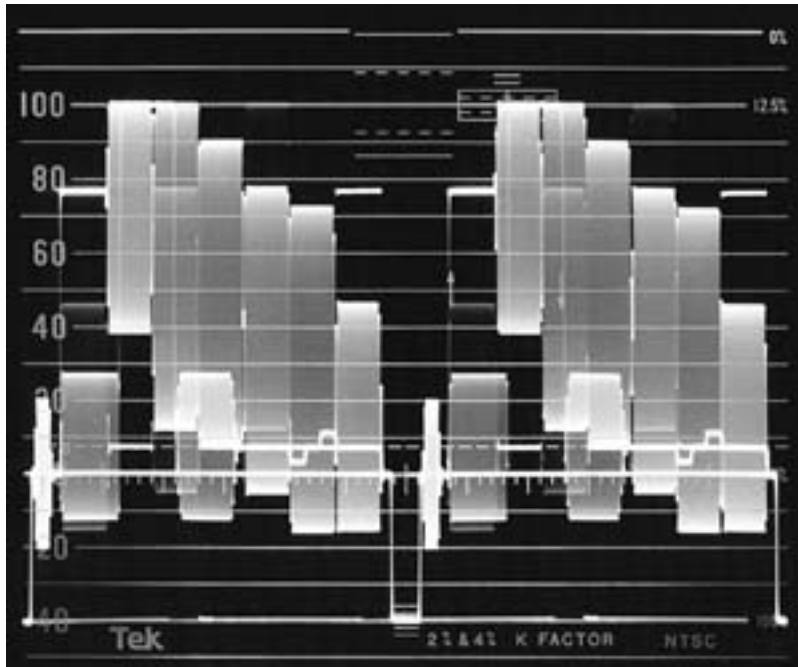
$$625/50 = 575 \times 0.7 = 40$$

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

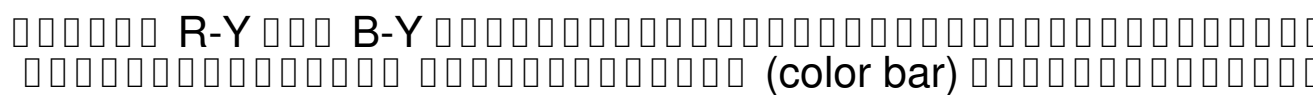


4

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

5 MHz
 VHS 240
 NTSC 4.2 MHz

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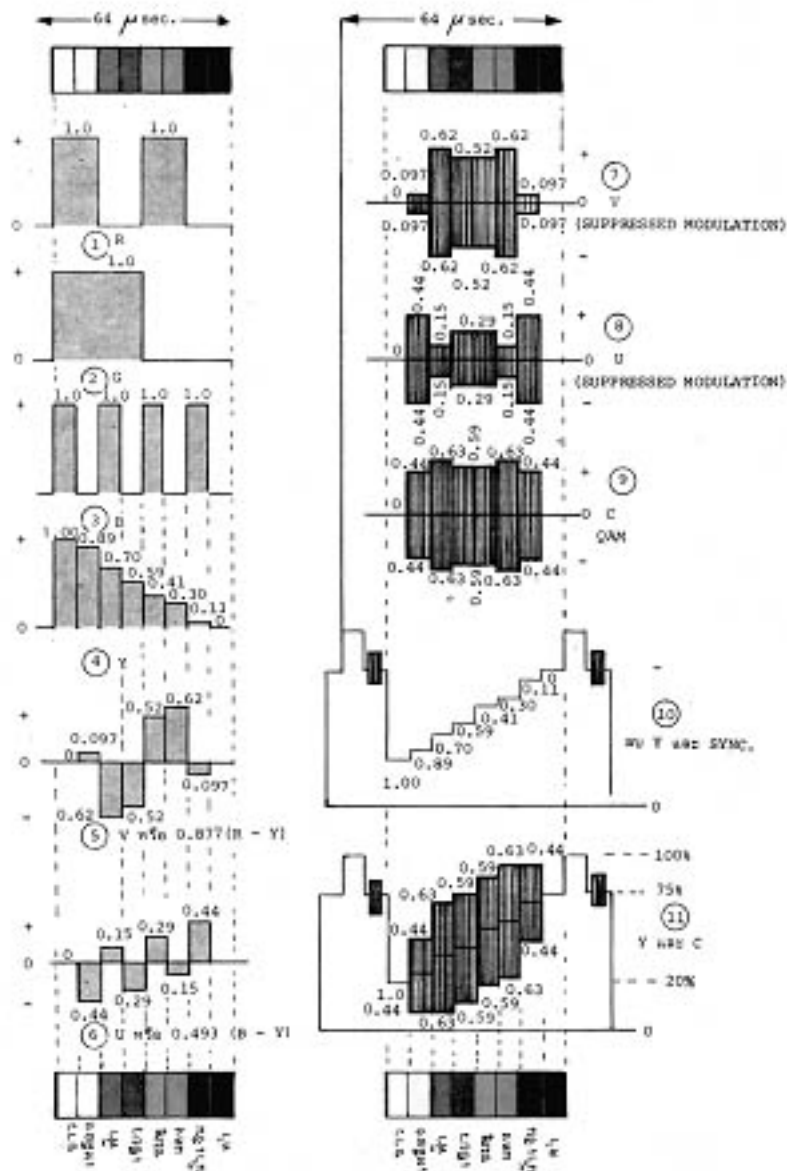
[illegible]

00000000 2 00000000000000000000000000000000 PAL

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

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

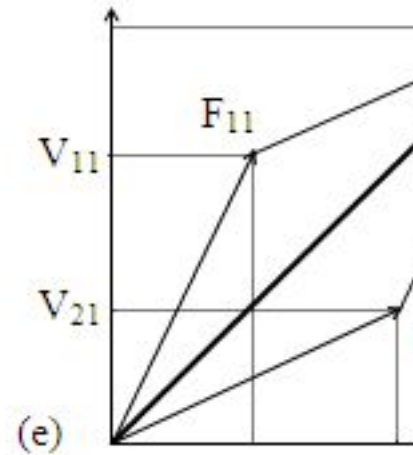
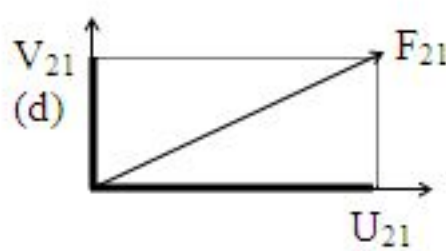
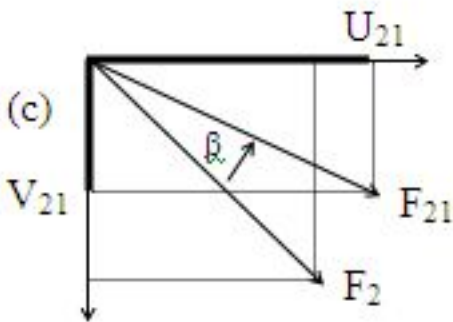
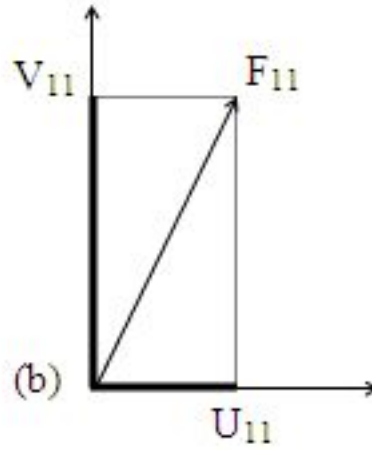
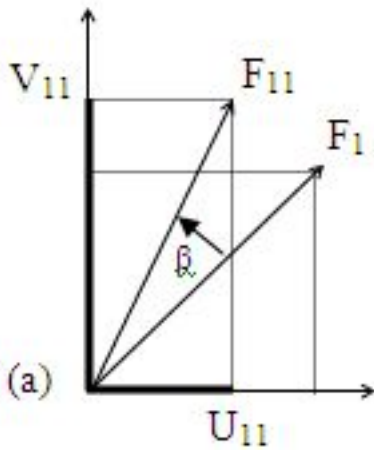
[illegible]

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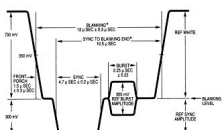
NTSC

PAL (Phase Alternate by Line)



PAL

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

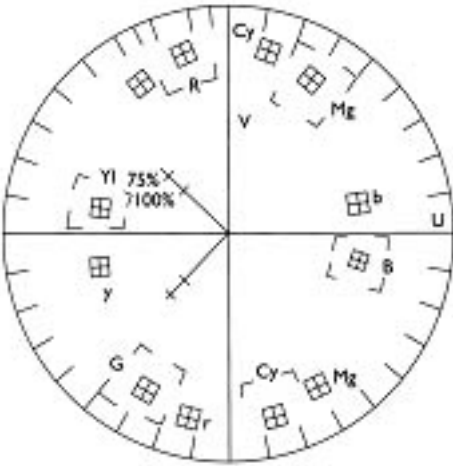


PAL

TV Signal in Deep

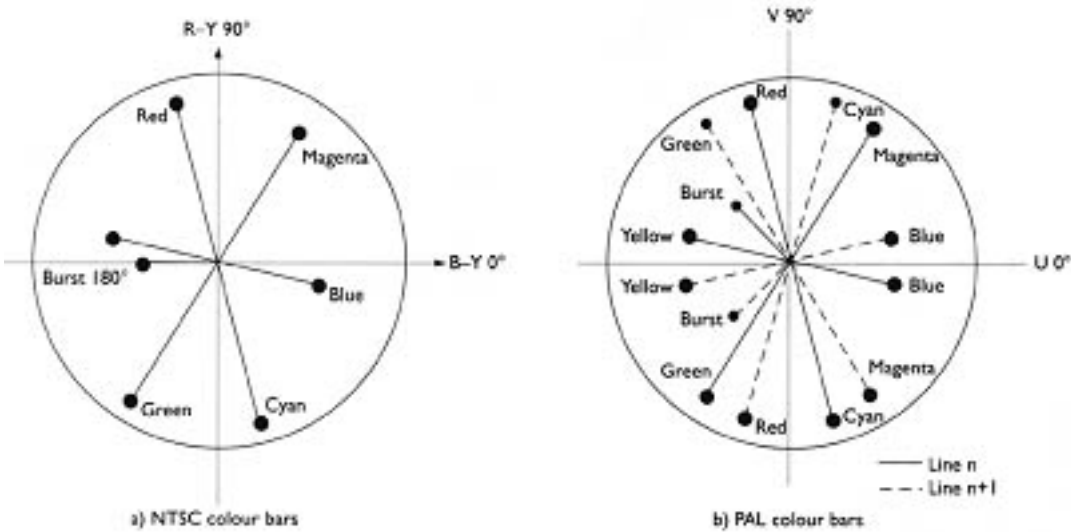
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13



13 (Graticule)

14



14 NTSC PAL

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[illegible]

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17

[illegible]

- [illegible]

[illegible]

ITV

[illegible]