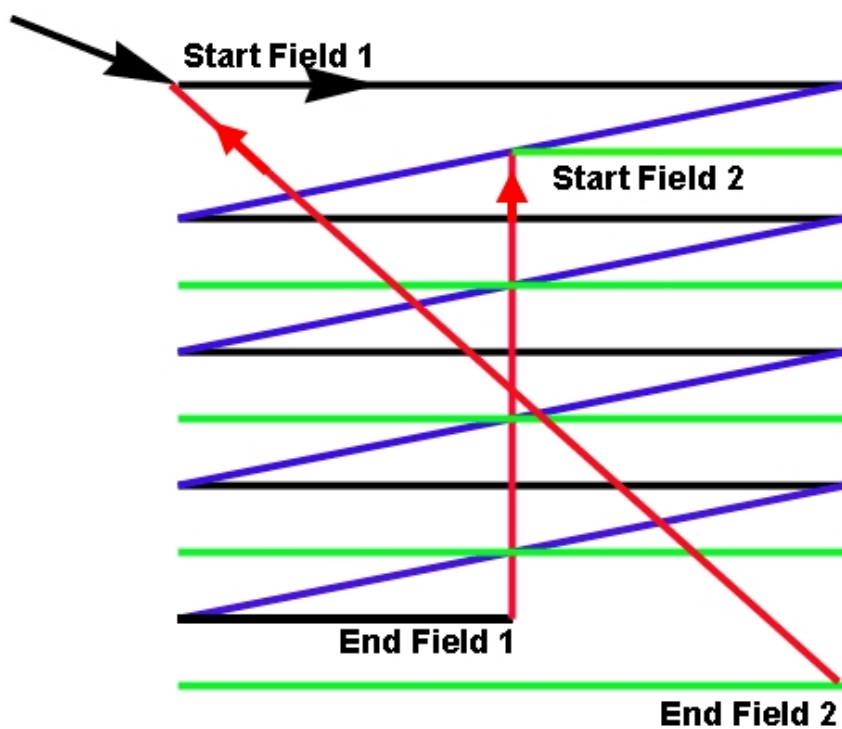


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[illegible][illegible]

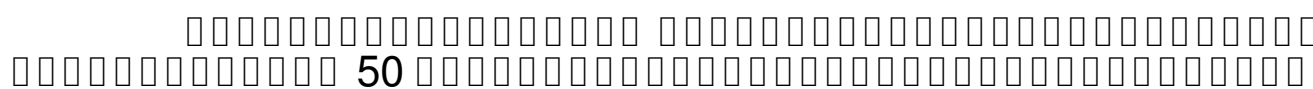
(scan)



1

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

[illegible]

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TV Signal in Deep

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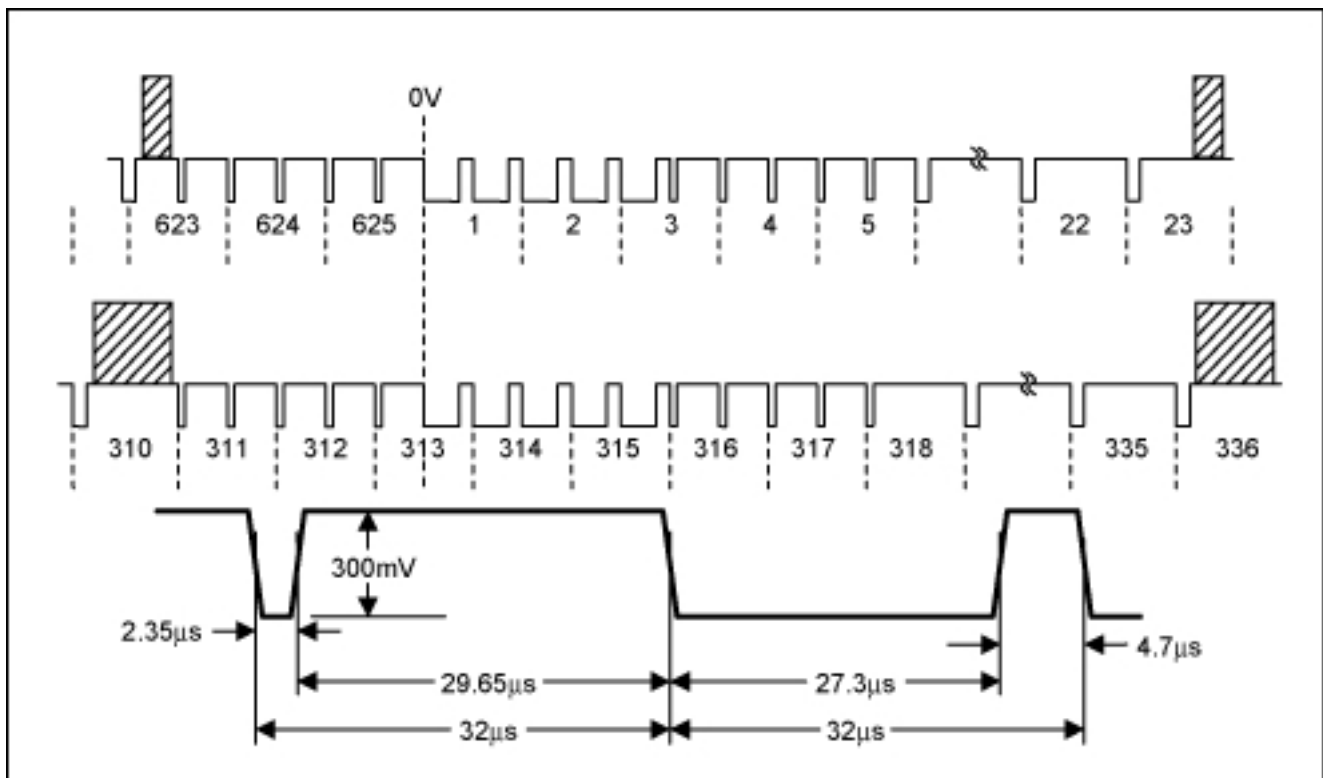
$$\text{Horizontal sync pulses} = 10 \text{ lines} = 2R \times 10/360$$

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

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

Horizontal sync pulses 171.8 cm 1.7 cm

Active Line



3

Visual Resolution & Bandwidth

(format res

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

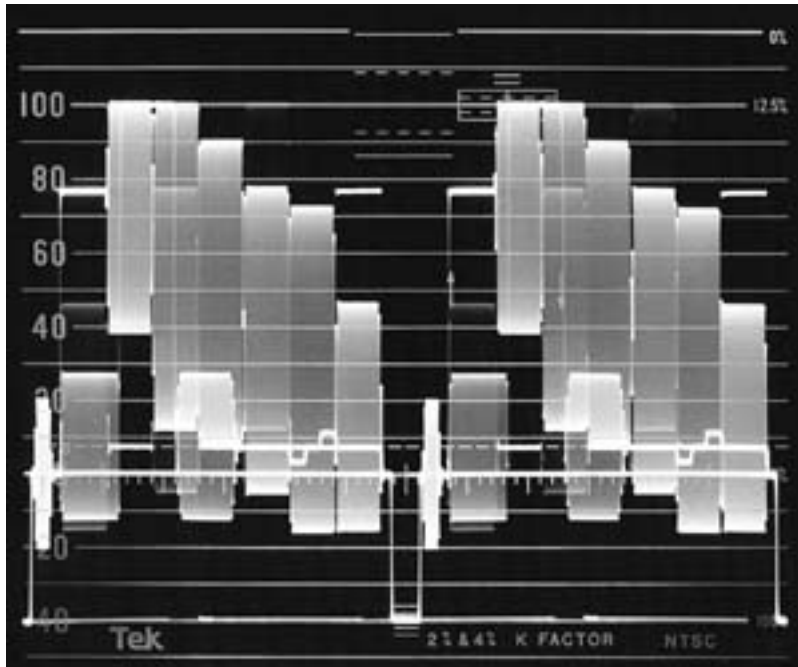
$$625/50 = 575 \times 0.7 = 40$$

TV Signal in Deep

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

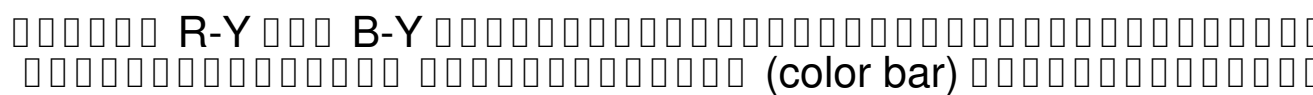


4

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

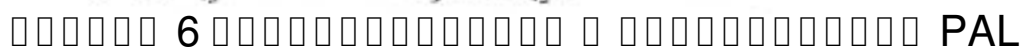
5 MHz CCIR
 VHS 240
 NTSC 4.2 MHz

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00000000 2 00000000000000000000000000000000 PAL

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* 00000000 0000000000000000 EBU 000000000000000000000000/000000

V (R-Y) **(R-Y)**



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

8 V U

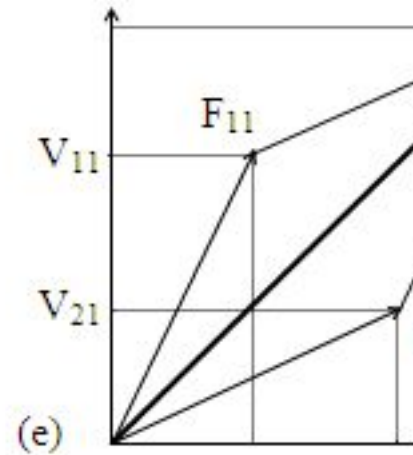
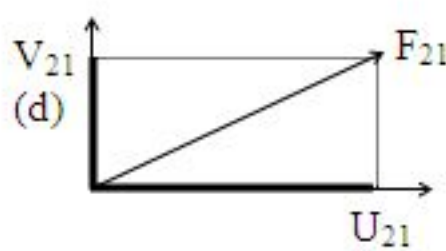
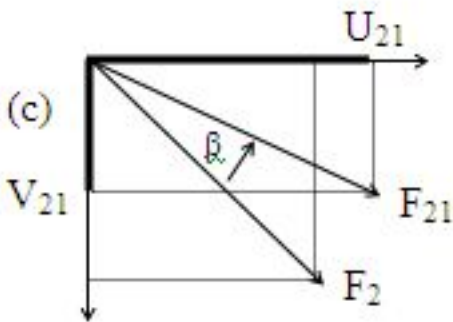
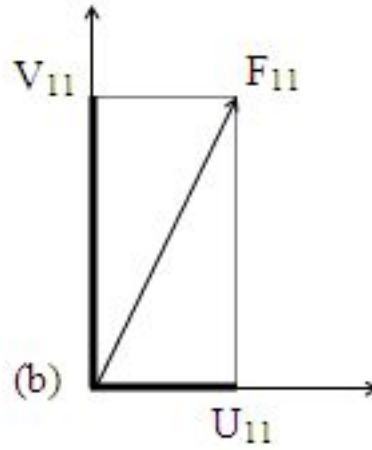
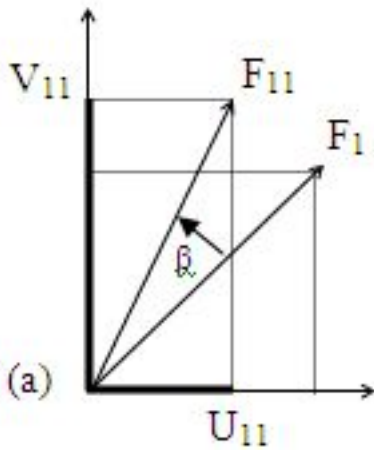
V U

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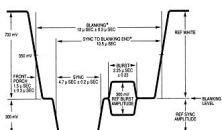
NTSC

PAL (Phase Alternate by Line)



PAL

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

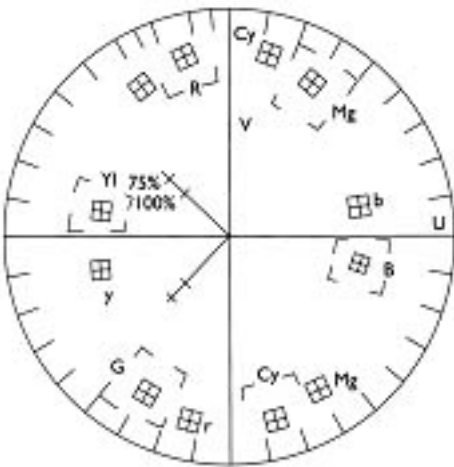


PAL

TV Signal in Deep

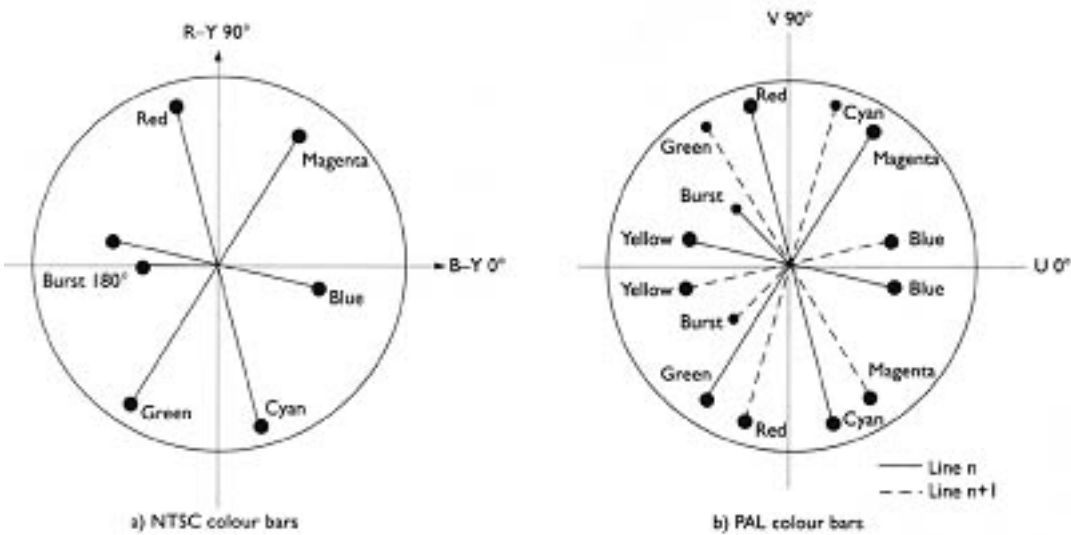
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13



13 (Graticule)

14



14 NTSC PAL

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[illegible]

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17

[illegible]

- [illegible]

[illegible]

ITV

- 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
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