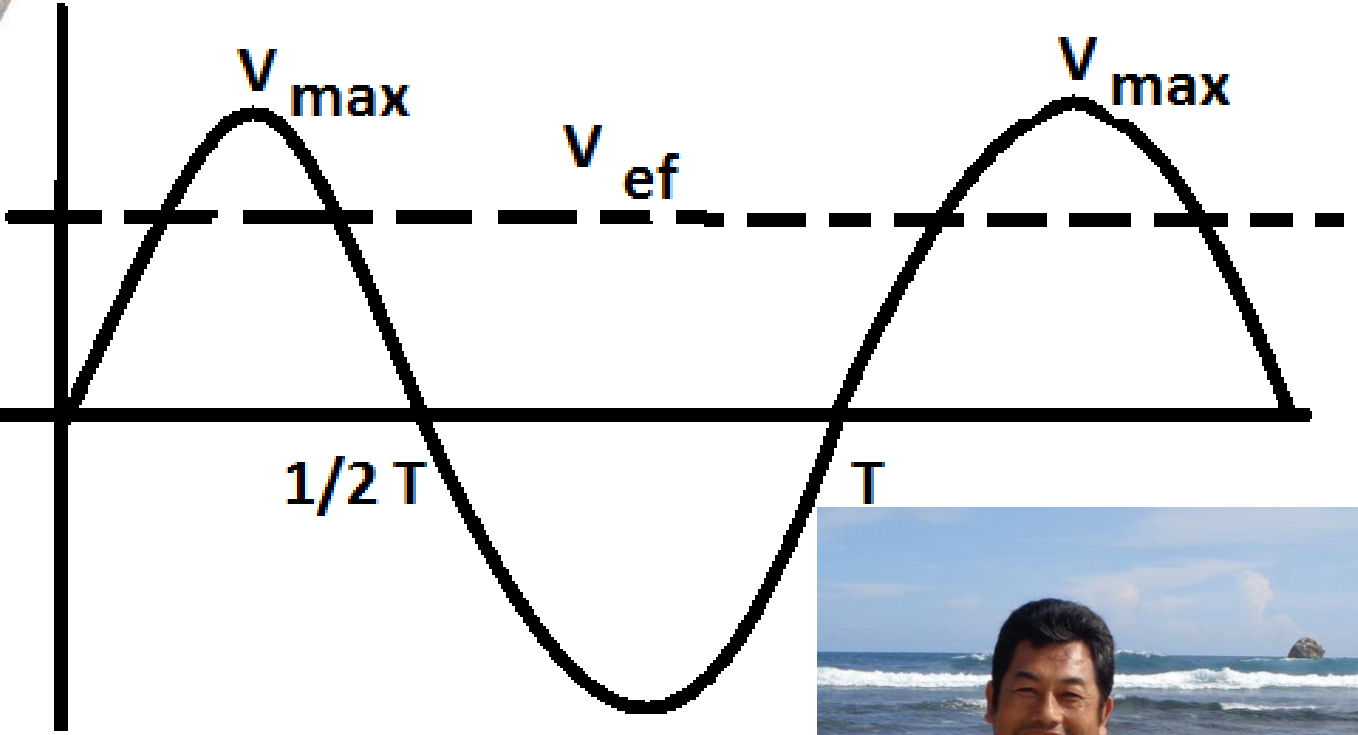
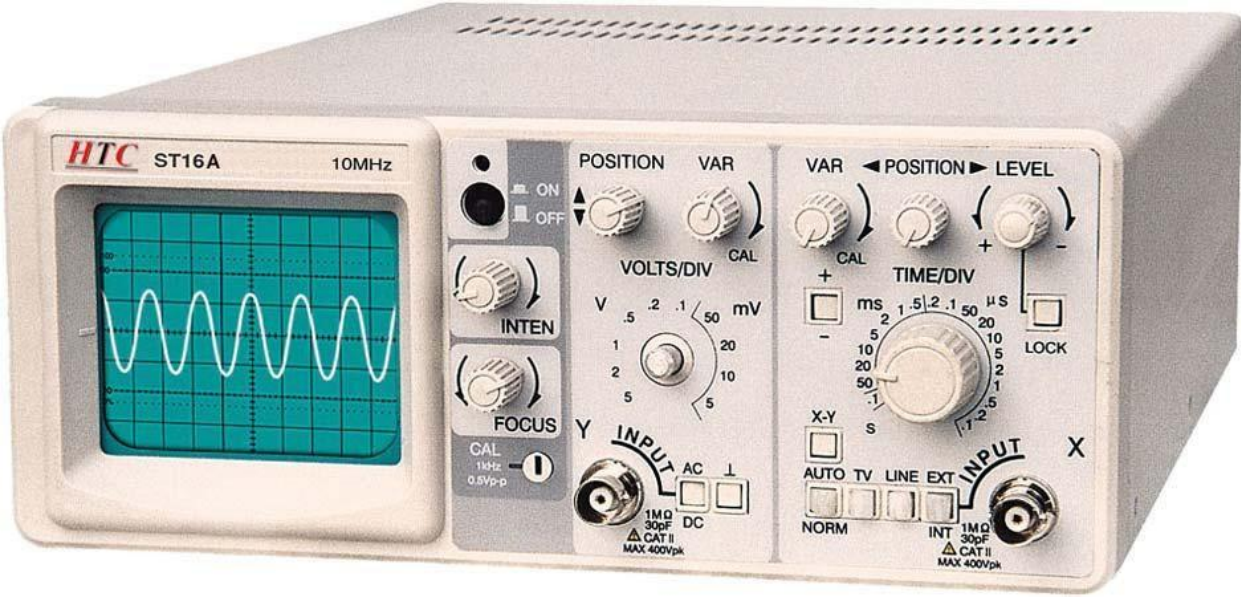


# PENGUKURAN ARUS BOLAK BALIK



SIDIK PURNOMO

# HASIL PENGUKURAN

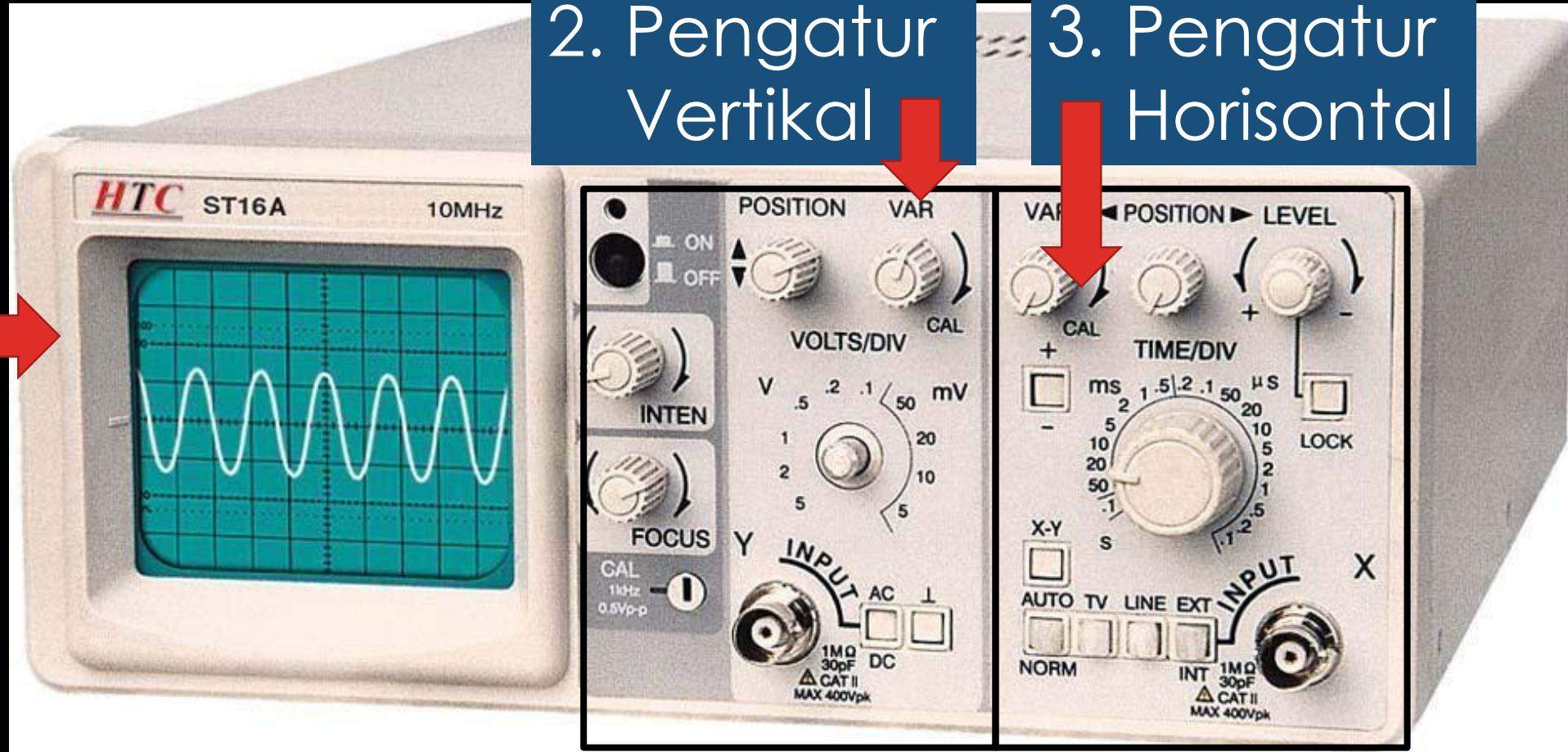
$$\text{Hasil pengukuran (H)} = \frac{\text{Skala yang ditunjuk (J)}}{\text{Skala penuh (P)}} \times \text{Batas Ukur (U)}$$

$$H = \frac{J}{P} \times U$$

# PENGUKURAN HARGA MAKSIMUM ARUS BOLAK BALIK DENGAN OSILOSKUP

Bagaian yang harus diperhatikan

1. Tampilan layar



2. Pengatur Vertikal

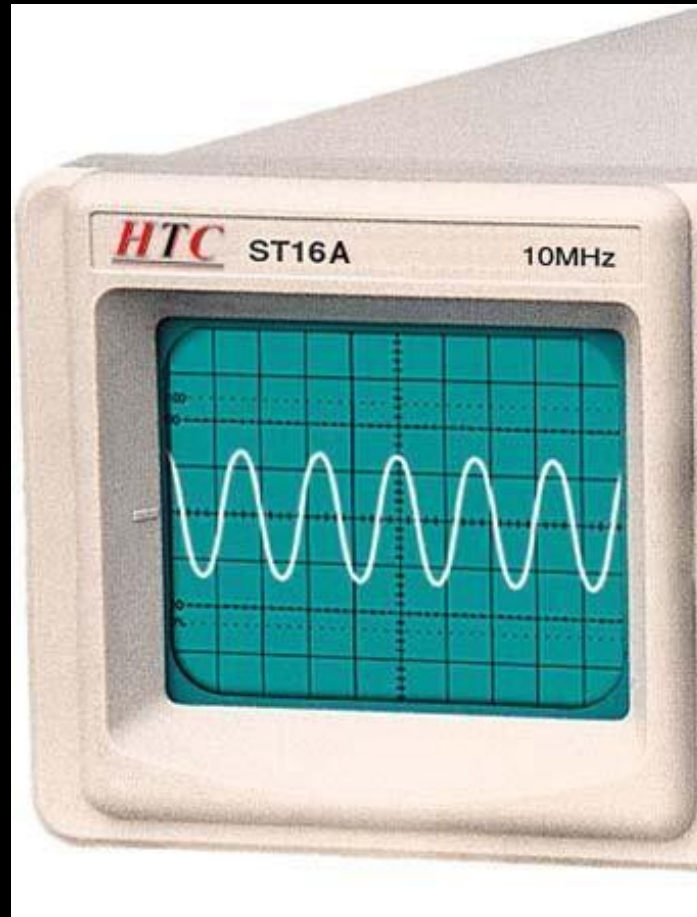
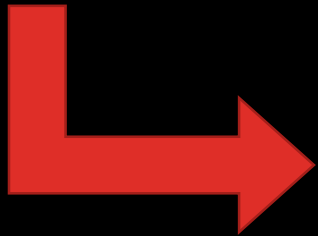


3. Pengatur Horizontal



# Menentukan harga maksimum

1. Tampilan layar

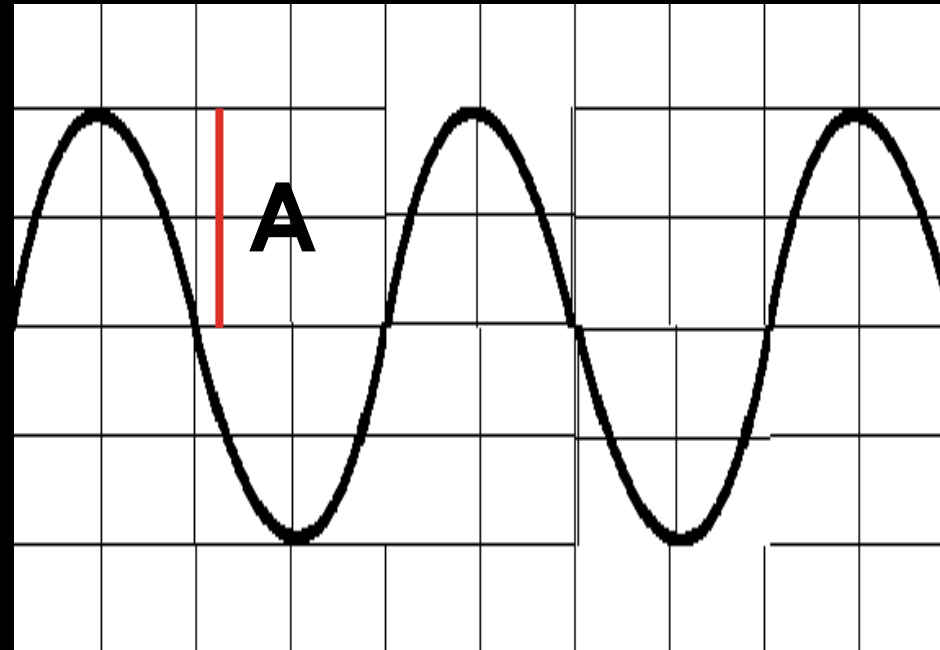
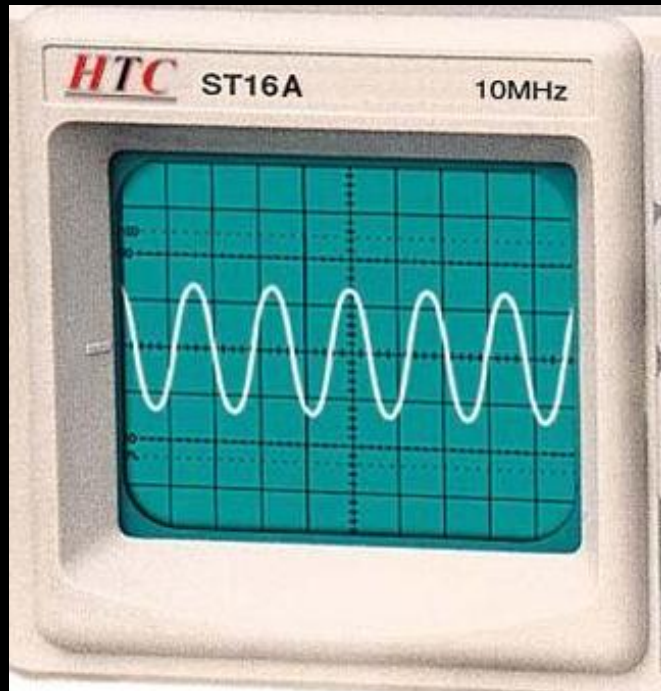


2. Pengatur Vertikal



# Menentukan harga maximum

## 1. Tampilan layar



$$A = 2 \text{ cm}$$

$$V_{\text{max}} = A \times Y$$

$$V_{\text{max}} = A \times Y = 2 \times 10 = 20 \text{ Volt}$$

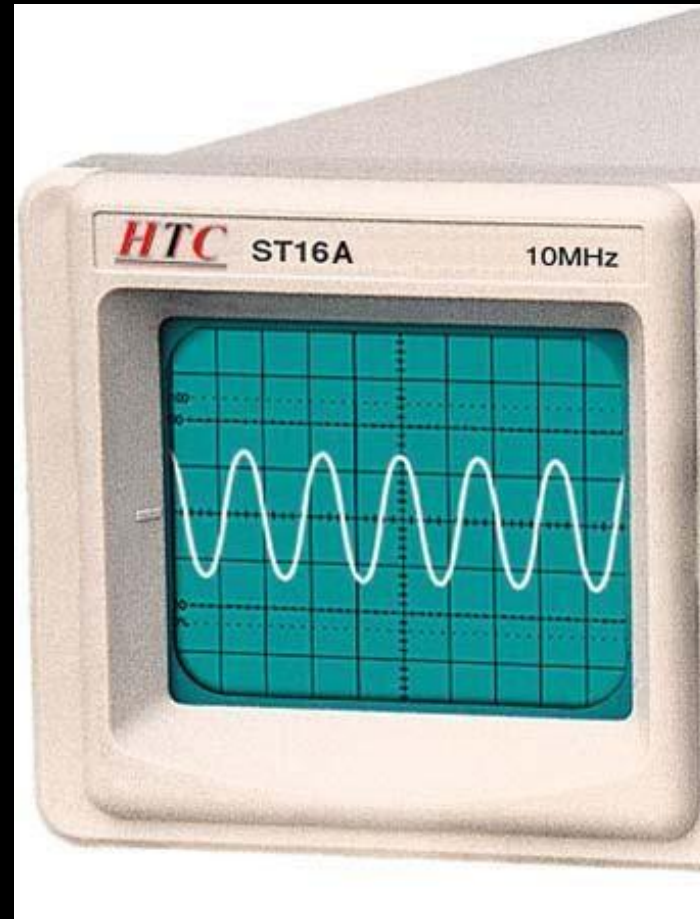
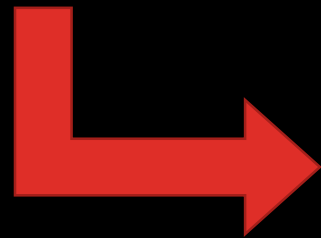
## 2. Pengatur Vertikal



$$Y = 10 \text{ Volt / cm}$$

# Menentukan Frekuensi arus bolak balik

1. Tampilan layar

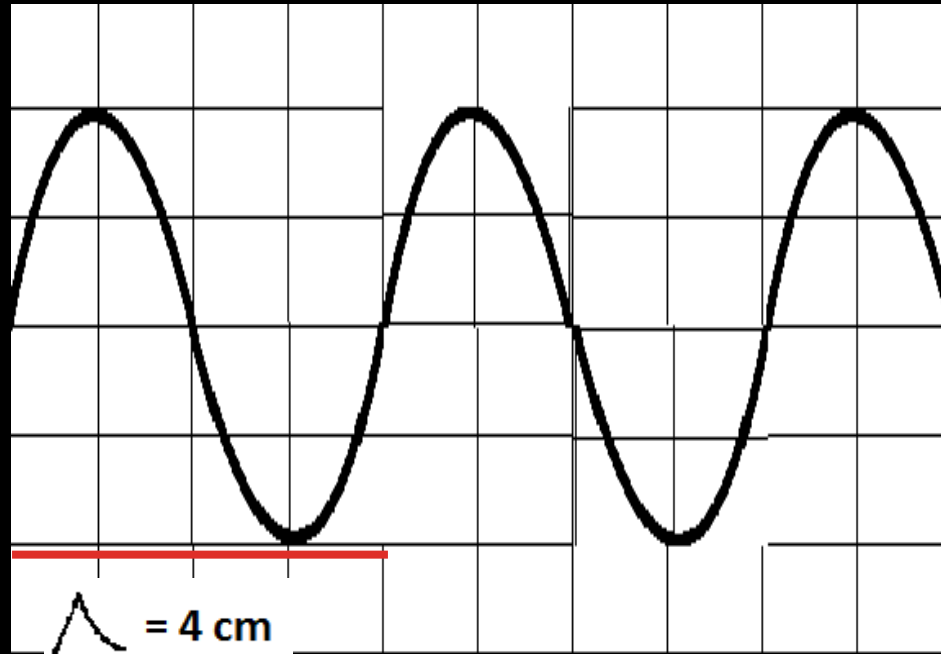


3. Pengatur Horizontal



# Menentukan Frekuensi arus bolak balik

1. Tampilan layar



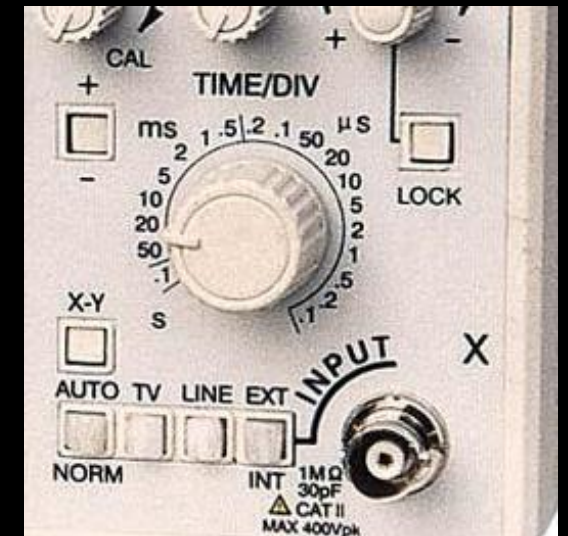
$$\lambda = 4 \text{ CM}$$

$$T = X \cdot \lambda = 50 \times 10^{-3} \times 4 = 200 \times 10^{-3}$$

$$T = 0,2 \text{ S}$$

$$f = 1/T = 1/0,2 = 100/2 = 5 \text{ Hz}$$

3. Pengatur Horizontal



$$X = 50 \text{ mS / Cm}$$