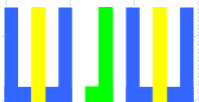


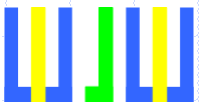
# 회로 이론/실습

## 0. 측정 장비

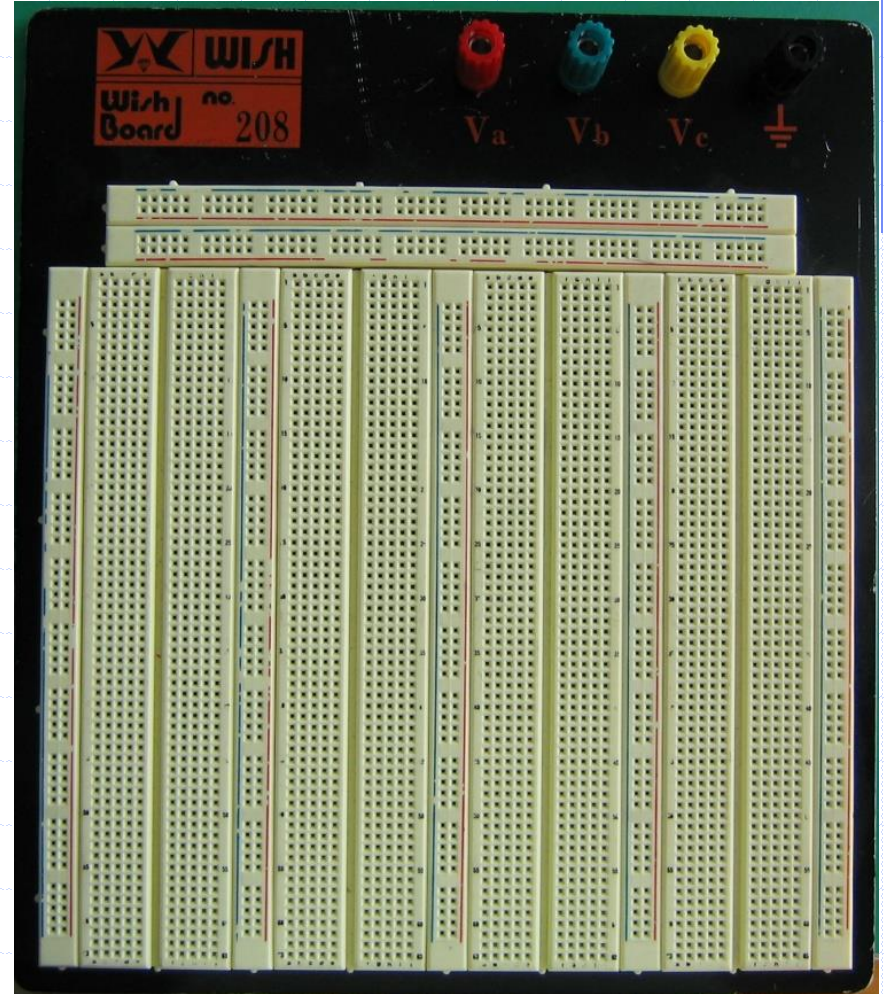
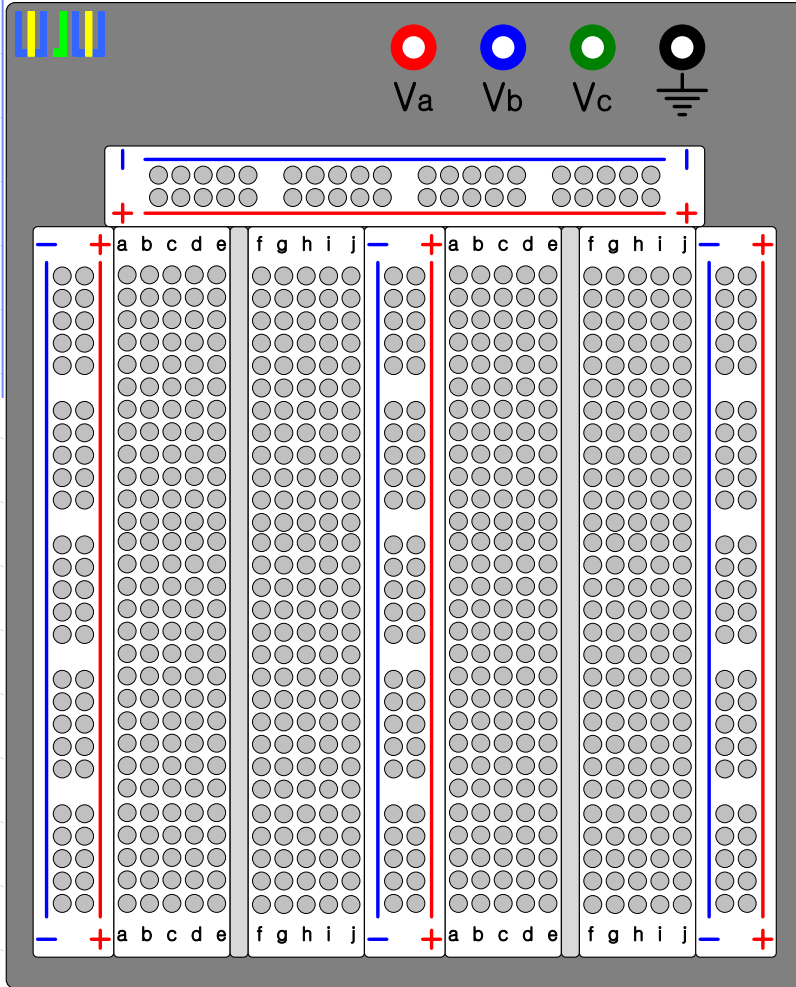


# 0. 측정 장비

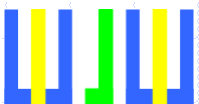
- 0-1. 브레드 보드 (Bread Board)
- 0-2. 디지털 멀티미터 (DMM, Digital Multi-Meter)
- 0-3. 직류 전원 공급 장치 (DC Power Supply)
- 0-4. 신호 발생기 (Function Generator)
- 0-5. 오실로스코프 (Analog, Digital Oscilloscope)



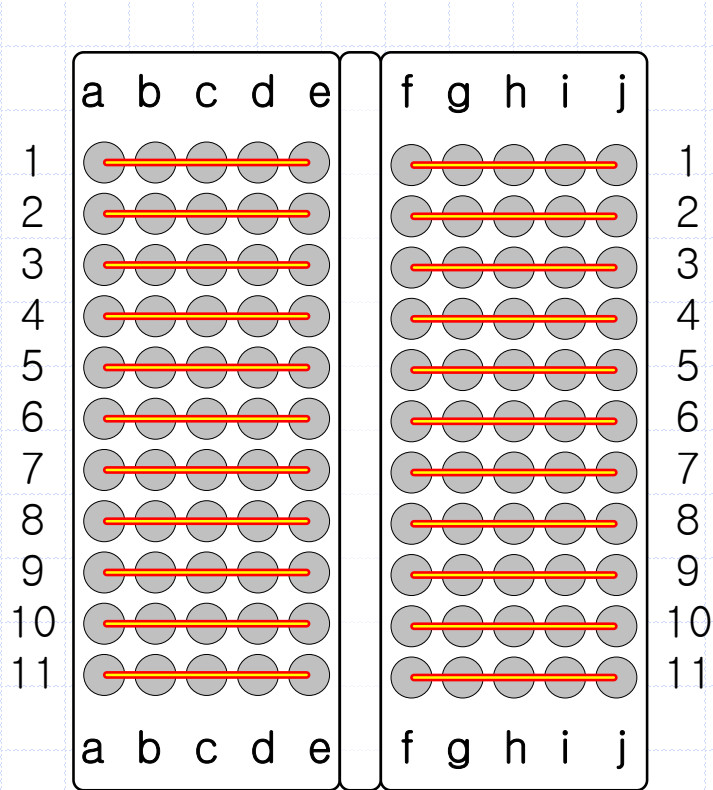
# 1-1. 브레드 보드 (Bread Board)



브레드 보드 (Bread Board)



# 1-2. 브레드 보드 (Bread Board)

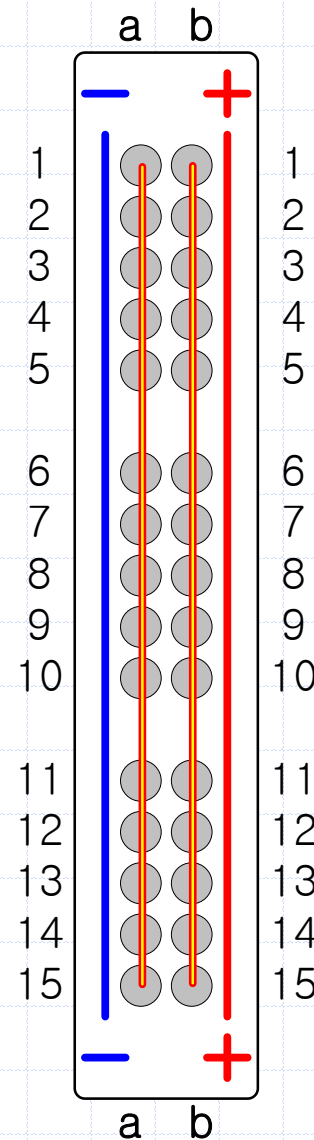


가로점 5개는 하나로 연결

Ex) 1-a, b, c, d, e

Ex) 1-f, g, h, i, j

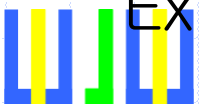
Ex) 7-a, b, c, d, e



세로점은 하나로 연결

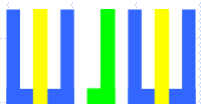
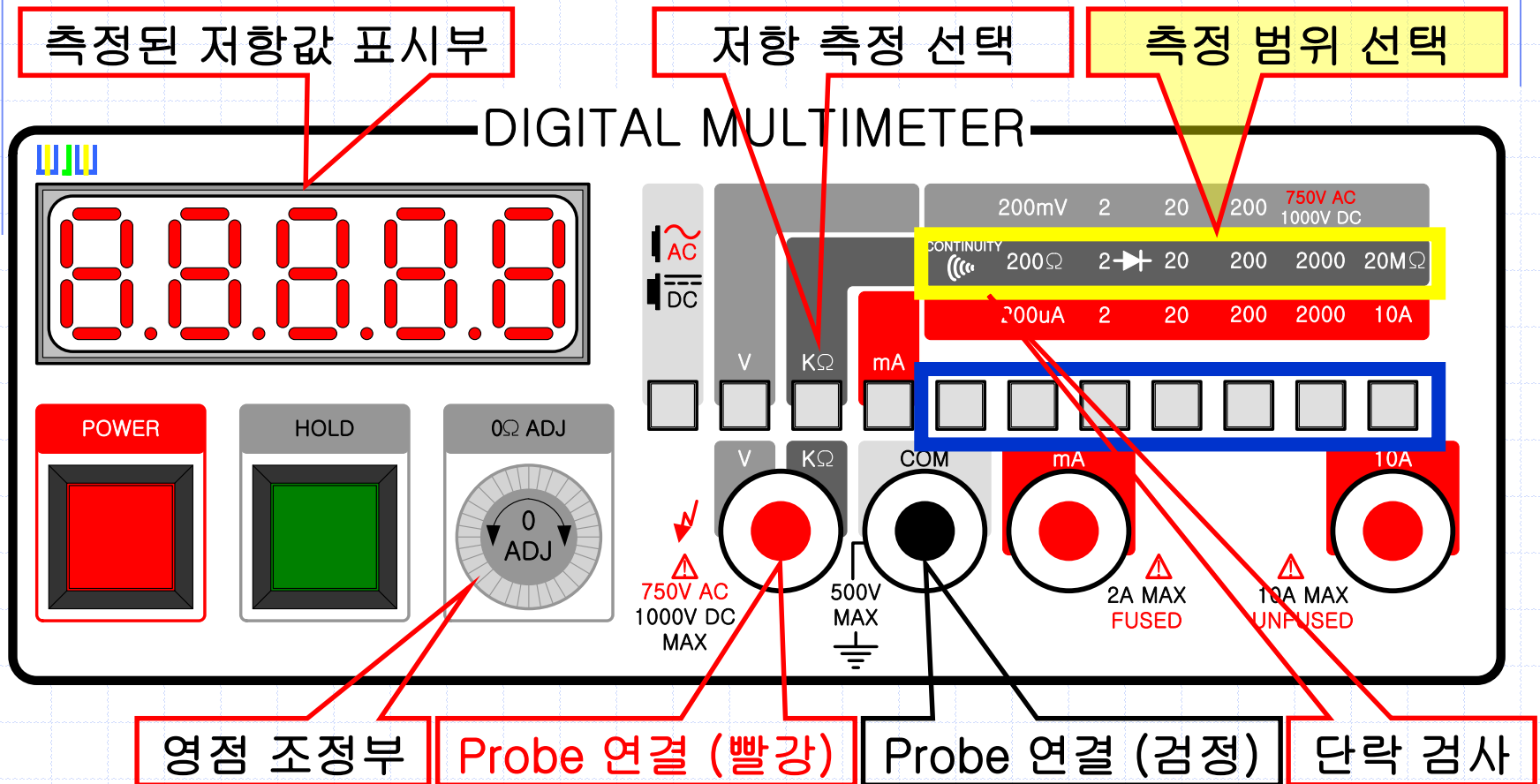
Ex) a-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, ...

Ex) b-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, ...



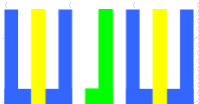
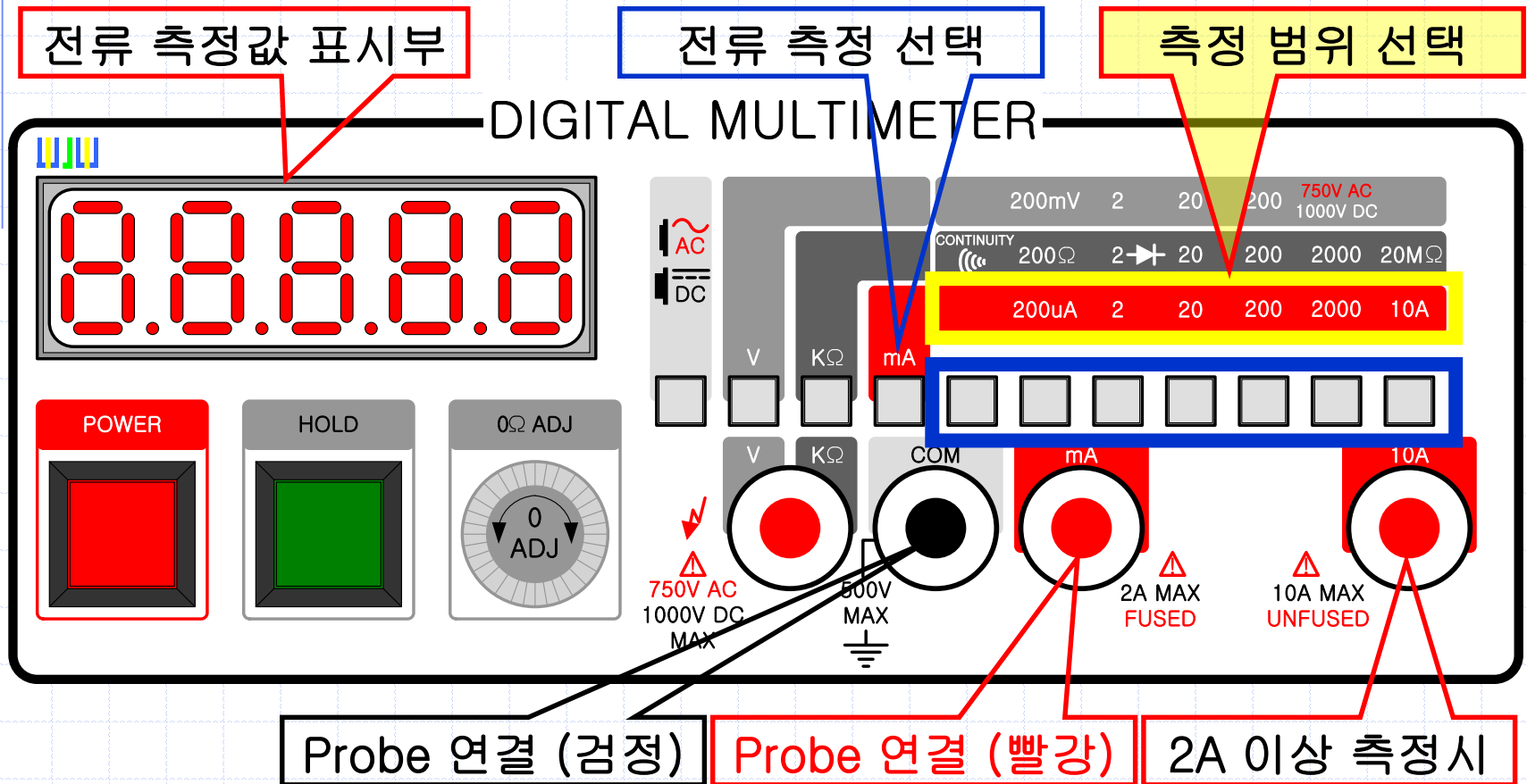
# 2-1. 디지털 멀티미터 (DMM)-저항 측정

✓ DMM 사용하기 (저항 측정)



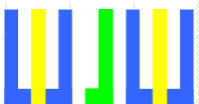
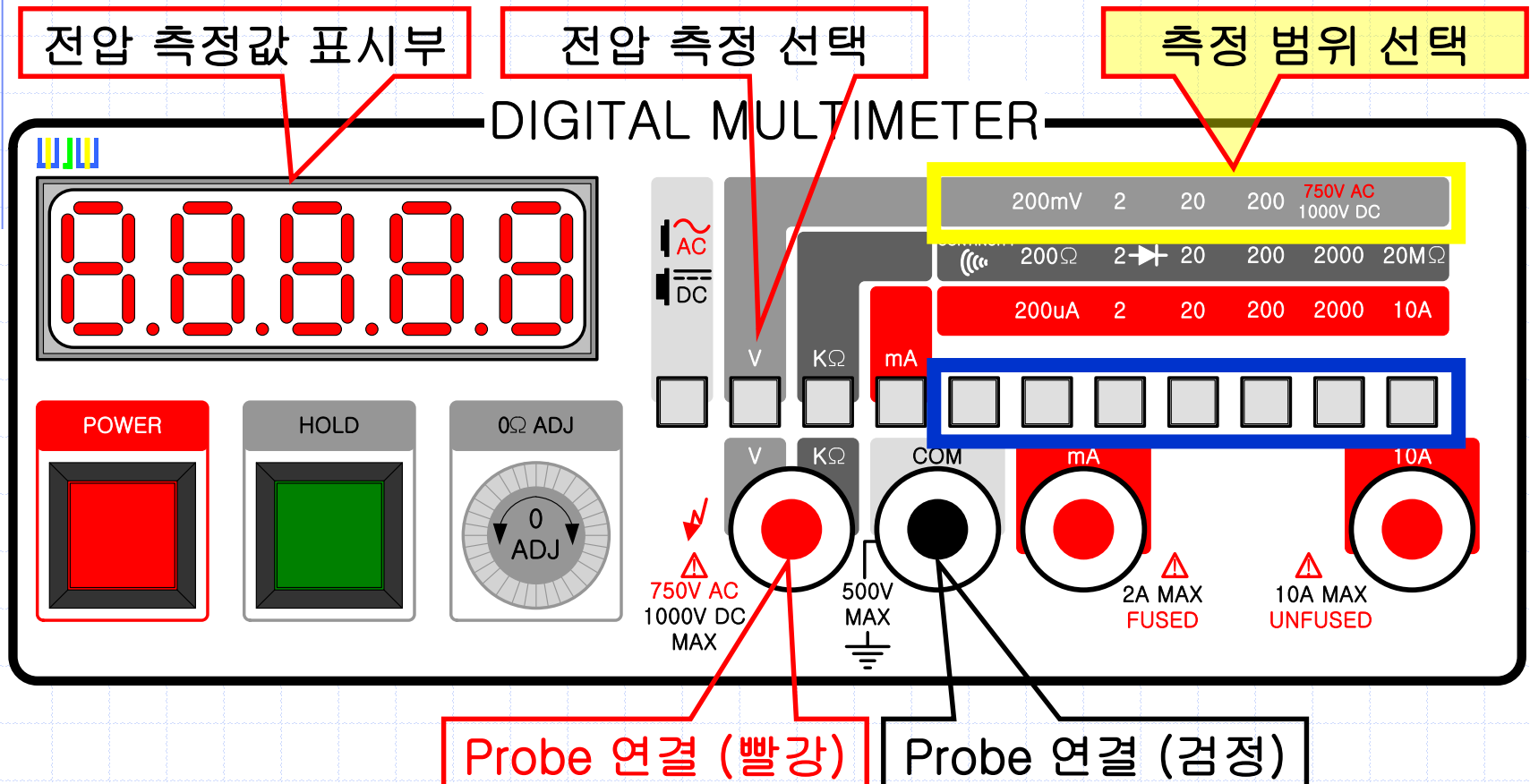
## 2-2. 디지털 멀티미터 (DMM)-전류 측정

- ✓ DMM 사용하기 (전류 측정)



## 2-3. 디지털 멀티미터 (DMM)-전압 측정

- ✓ DMM 사용하기 (전압 측정)



# 3-1. 직류 전원 공급 장치 (DC Power Supply)

✓ DC Power Supply 사용하기

전압 및 전류 표시부

전압  
조절  
단자

전류  
조절  
단자

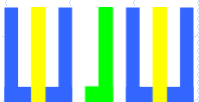
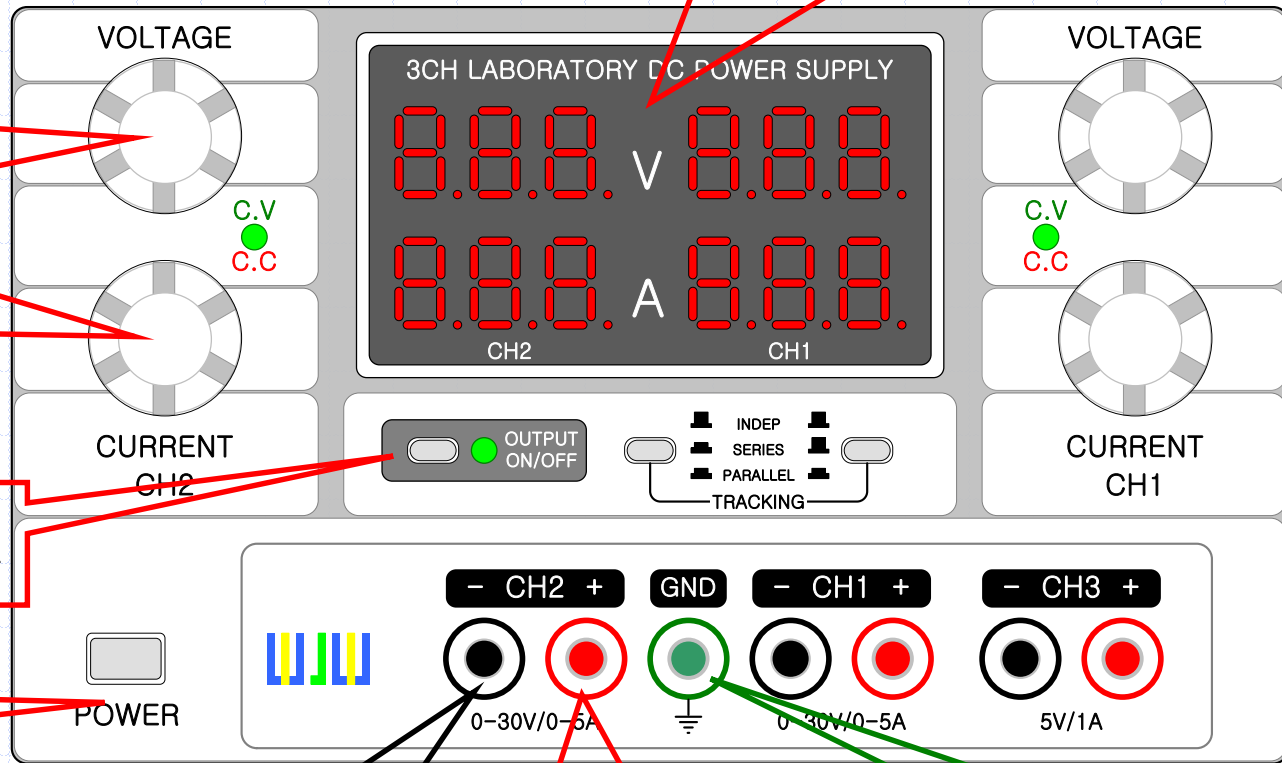
DC 출력  
ON/OFF

전원

- 단자 (검정)

+ 단자 (빨강)

GND 단자 (녹색)





## 3-2. 직류 전원 공급 장치 (DC Power Supply)

- ✓ DC Power Supply 사용하기

DC 출력  
ON/OFF

전류 제한  
확인 단자

전류 조절 단자

전압 및 전류 표시부

전압  
조절  
단자

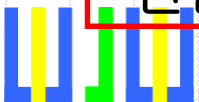
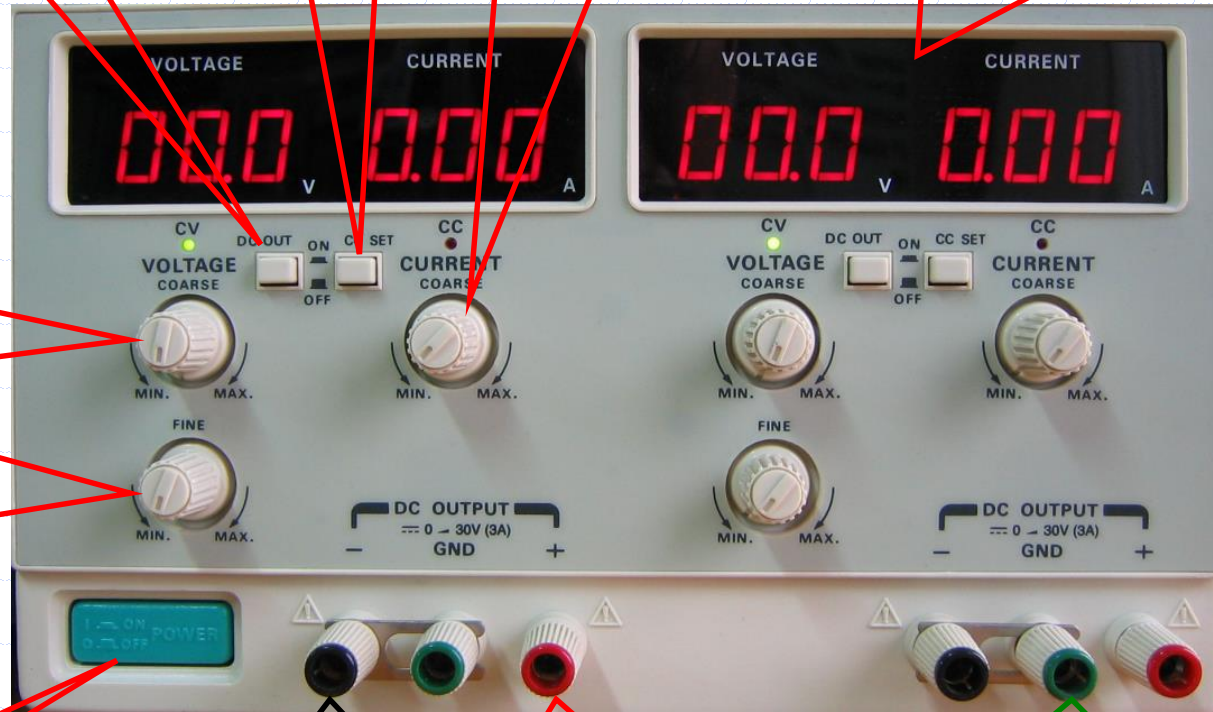
전압  
미세  
조절  
단자

전원

- 단자 (검정)

+ 단자 (빨강)

GND 단자 (녹색)



# 3-3. 직류 전원 공급 장치 (DC Power Supply)

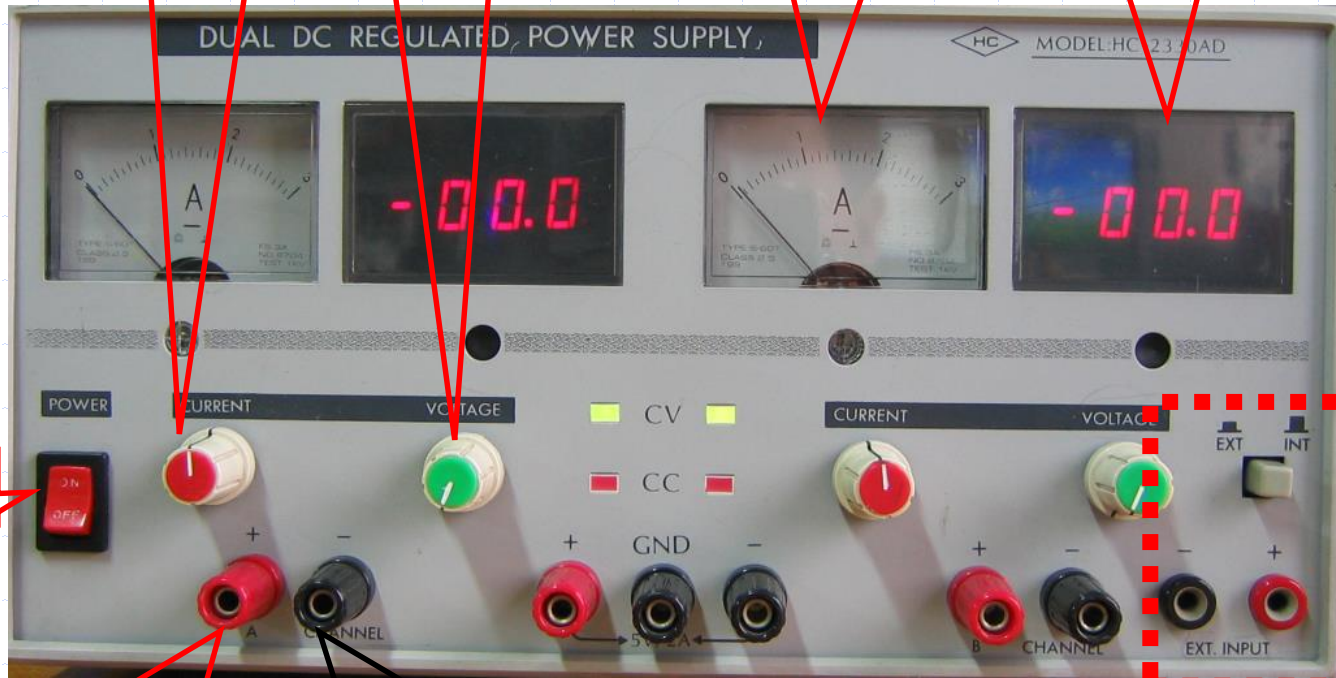
✓ DC Power Supply 사용하기

전류 조절 단자

전압 조절 단자

전류 표시부

전압 표시부

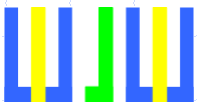


전원

+단자 (빨강)

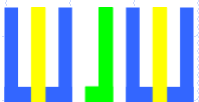
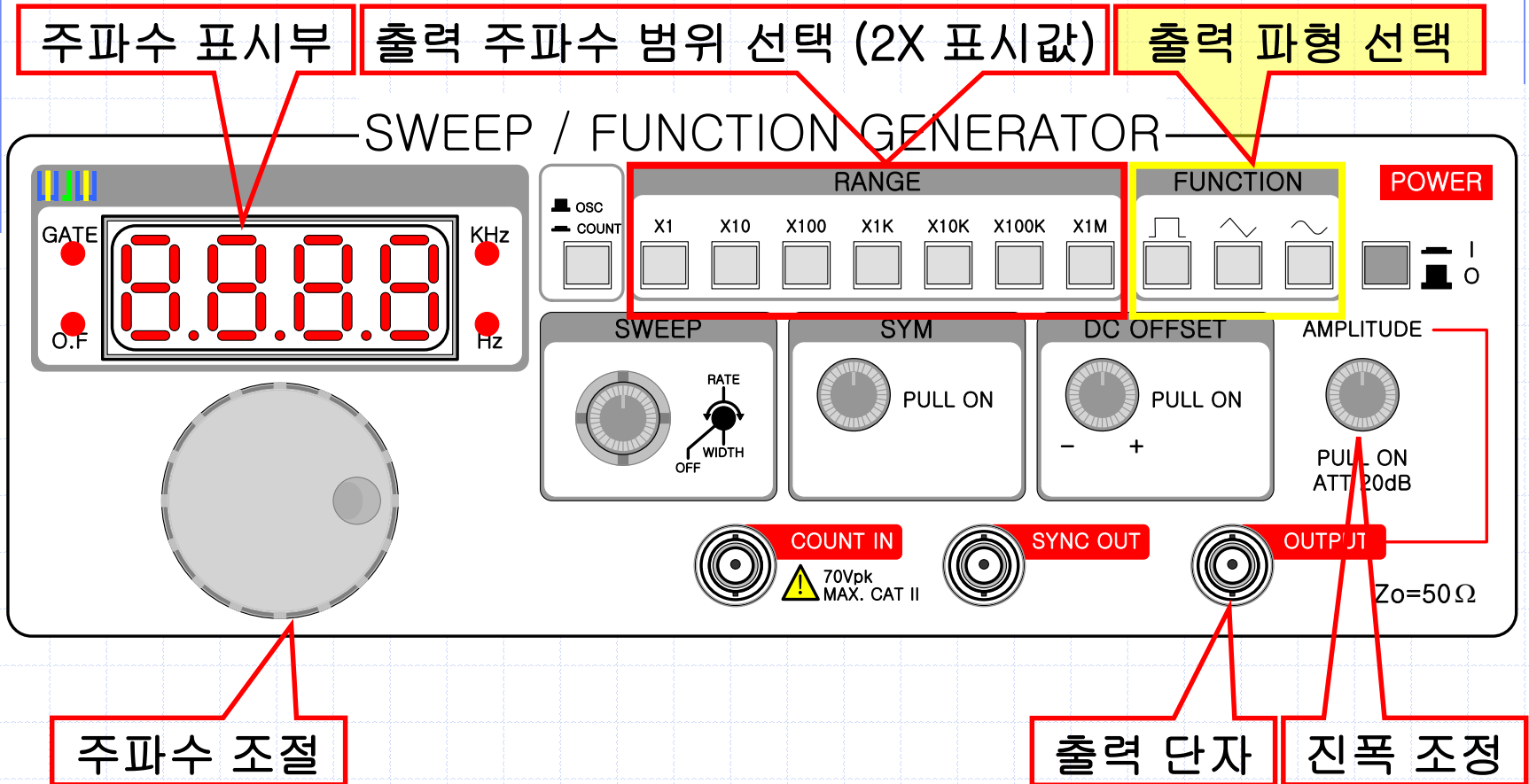
-단자 (검정)

외부 전압 측정



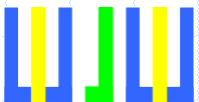
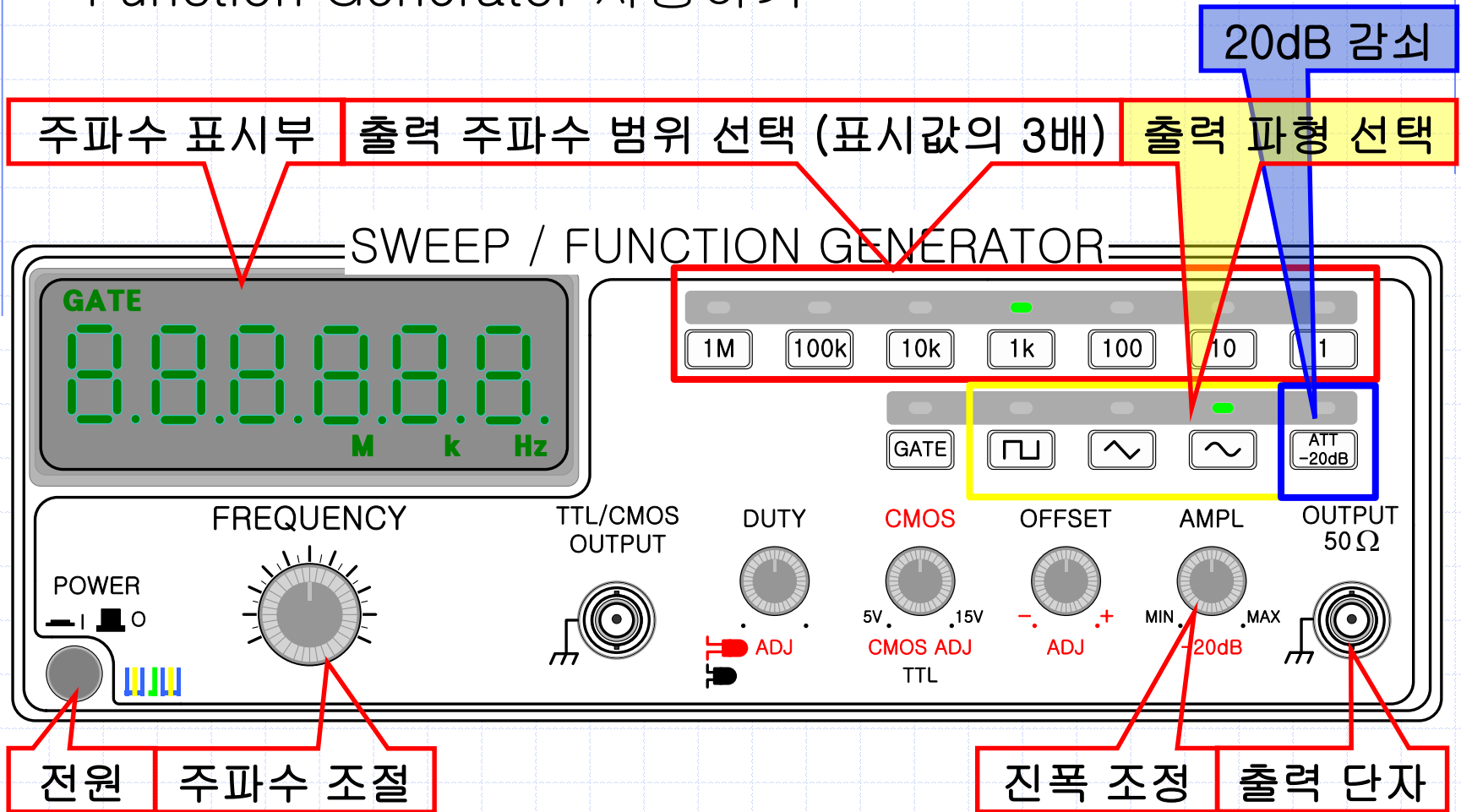
# 4-1. 신호 발생기 (Function Generator)

✓ Function Generator 사용하기



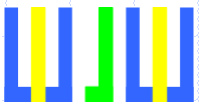
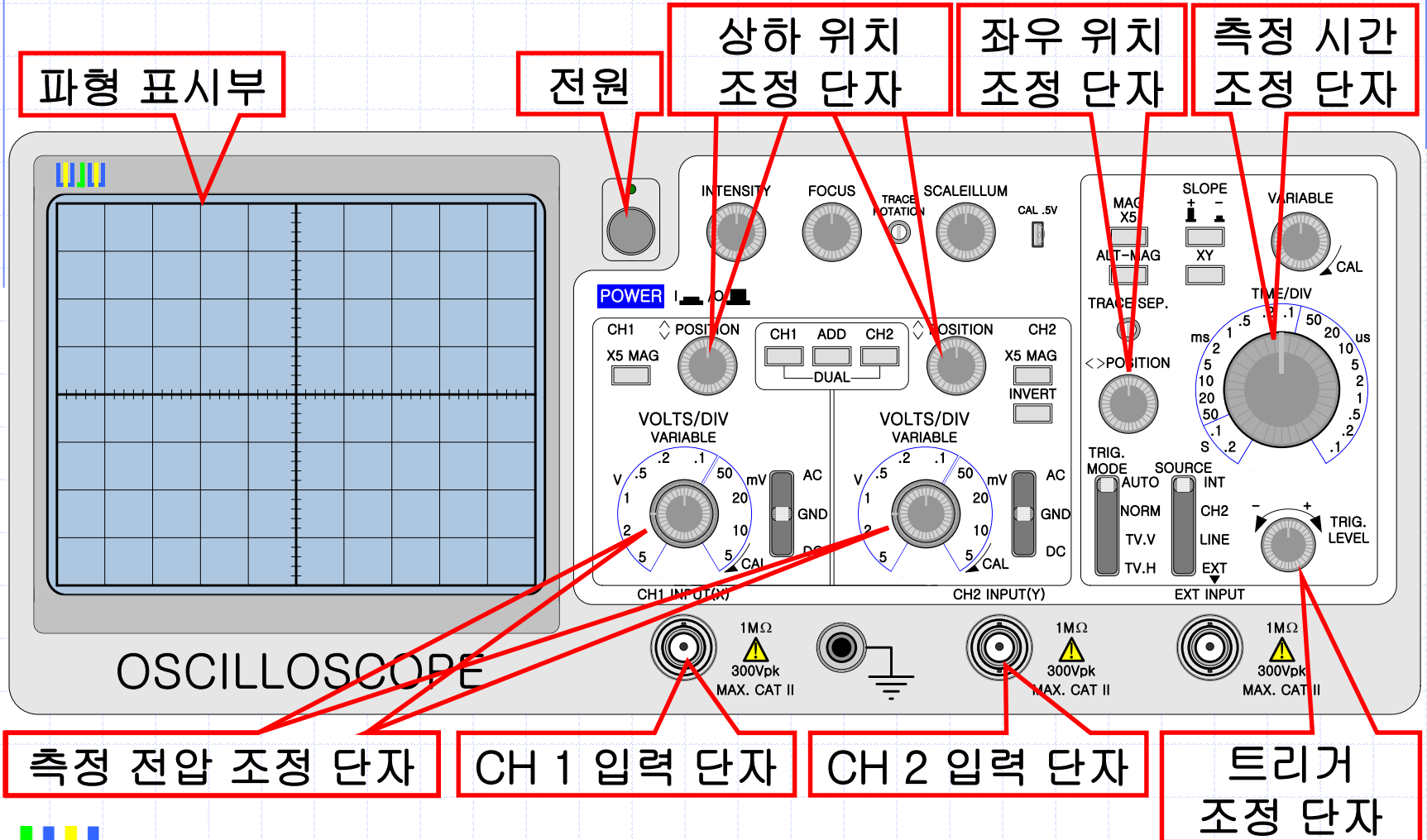
## 4-2. 신호 발생기 (Function Generator)

- ✓ Function Generator 사용하기



# 5-1. 오실로스코프 (Analog Oscilloscope)

✓ Oscilloscope 사용하기



# 5-2. 오실로스코프 (Digital Oscilloscope)

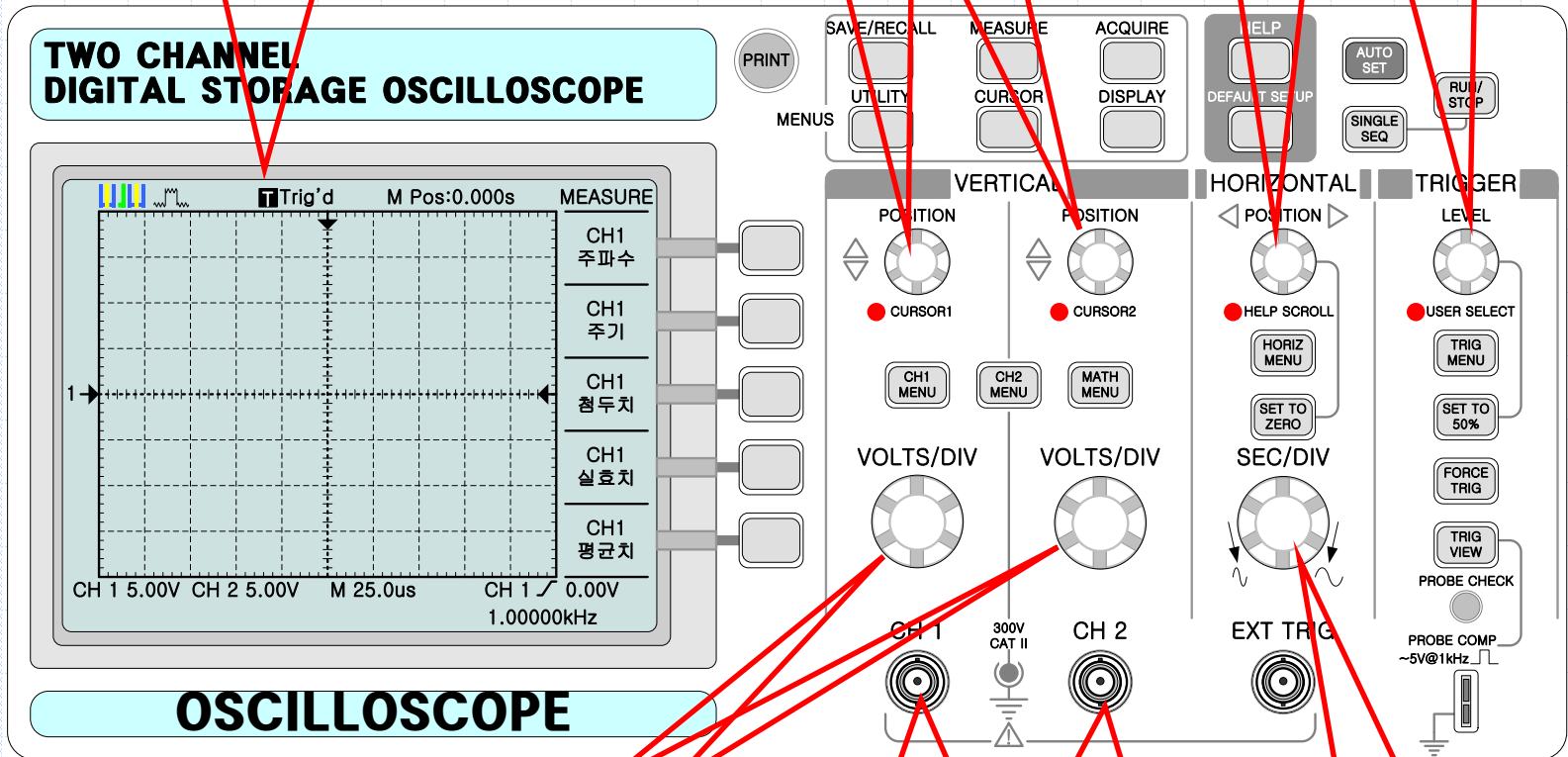
✓ Oscilloscope 사용하기

파형 표시부

상하 위치  
조정 단자

좌우 위치  
조정 단자

트리거  
조정 단자



측정 전압  
조정 단자

CH 1  
입력 단자

CH 2  
입력 단자

측정 시간  
조정 단자

