



**2-CH**

frequency output: 30MHz  
Sample Rate: 500MS/s

# XDG2030

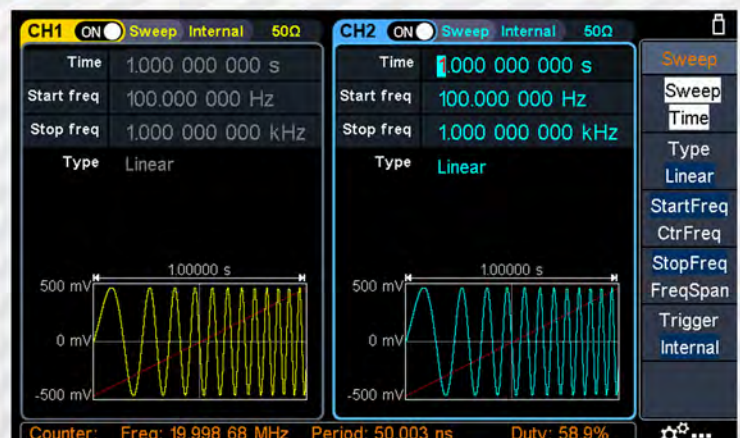
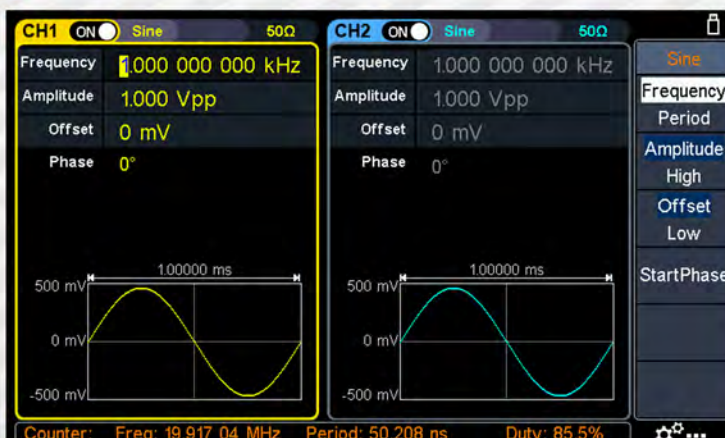
## Waveform Generator

- + Advanced DDS technology
- + 1 $\mu$ Hz frequency resolution
- + Vertical Resolution :14 bits, max 10M Arb waveform legth
- + Comprehensive waveform output :  
6 basic waveforms, and 152 built-in arbitrary waveforms
- + Comprehensive modulation functions :  
AM, FM, PM, FSK,3FSK, 4FSK, PSK, OSK, ASK, DSB-AM, QPSK, SUM, BPSK, PWM, Sweep, Burst, etc.
- + High-accuracy frequency counter integrated, supported range 100mHz - 200MHz
- + 7 inch (800  $\times$  480 pixels) TFT LCD screen



Equal performance dual channel output

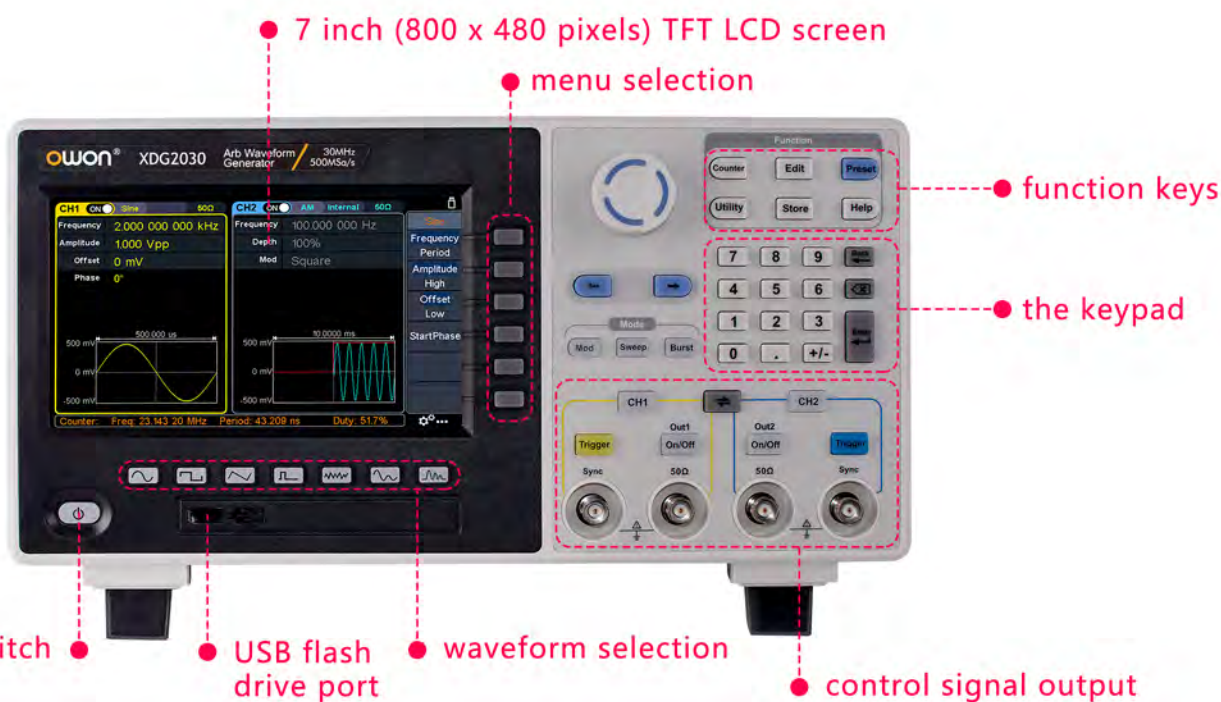
Rich sweep function



## Rich analog and digital modulation



## Build-in 152 arbitrary waveforms



Mod; FSK; Trig  
10MHz In / Out; Counter



PC USB Port

LAN

mains socket and fuse

| Model                              | XDG2030                                                                                                                                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Channel                            | 2                                                                                                                                      |
| Frequency Output                   | 30MHz                                                                                                                                  |
| Sample Rate                        | 500MSa/s                                                                                                                               |
| Vertical Resolution                | 14 bits                                                                                                                                |
| <b>Waveform</b>                    |                                                                                                                                        |
| Standard Waveform                  | sine, square, pulse, ramp, noise, and harmonic                                                                                         |
| Arbitrary Waveform                 | exponential rise, exponential fall, sin(x)/x, step wave, and others, total 150 built-in waveforms, and user-defined arbitrary waveform |
| <b>Frequency (resolution 1μHz)</b> |                                                                                                                                        |
| Sine                               | 1μHz-30MHz                                                                                                                             |
| Square                             | 1μHz ~ 15MHz                                                                                                                           |
| Pulse                              | 1μHz ~ 15MHz                                                                                                                           |
| Ramp                               | 1μHz ~ 3MHz                                                                                                                            |
| Noise(-3dB, typical)               | 30MHz                                                                                                                                  |
| Arbitrary Waveform                 | 1μHz ~15MHz                                                                                                                            |
| Harmonic                           | 1μHz ~15MHz                                                                                                                            |
| Accuracy                           | ±1ppm, 25°C±5°C                                                                                                                        |
| <b>Amplitude</b>                   |                                                                                                                                        |
| into 50Ω load                      | 1mVpp ~ 10Vpp (≤ 25MHz) ;<br>1mVpp ~ 5Vpp (≤30MHz) ;                                                                                   |
| Resolution                         | 0.1mVpp or 4digits, (amplitude > 1Vpp: 1mVpp)                                                                                          |
| <b>Modulation</b>                  |                                                                                                                                        |
| Type                               | AM, DSB-AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, 3FSK, 4FSK, OSK, PWM, SUM                                                               |
| Trigger source                     | Internal, external, manual                                                                                                             |
| <b>Frequency Counter</b>           |                                                                                                                                        |
| Function                           | Frequency, period, +width, -width, +duty, and -duty                                                                                    |
| Frequency Range                    | 100mHz ~ 200MHz (7 digits)                                                                                                             |
| Coupling mode                      | AC,DC                                                                                                                                  |
| <b>Input / Output</b>              |                                                                                                                                        |
| Display                            | 7" (800 x 480 pixels) LCD                                                                                                              |
| Input mode                         | frequency counter; external modulation input; external trigger input, Internal clock output; external reference clock input / output   |
| Communication Interface            | USB Host, USB Device, (Support USBTMC), LAN, RS232(optional)                                                                           |
| <b>Mechanical specifications</b>   |                                                                                                                                        |
| Size                               | 340mm x 177mm x 90mm                                                                                                                   |
| Weight                             | 2.3kg                                                                                                                                  |

## Accessories and Packaging



- |                  |                       |                     |                    |
|------------------|-----------------------|---------------------|--------------------|
| <b>1</b> XDG2030 | <b>2</b> Q9 Cable x 2 | <b>3</b> Power Cord | <b>4</b> USB Cable |
| <b>5</b> CD Rom  | <b>6</b> Quick Guide  |                     |                    |

**Dimension (W×H×D):** 340 x 177 x 90 (mm)

**Device Weight:** Approx. 2.3 kg

**Packaging Size (W×H×D):** 430 x 185 x 290 (mm)

