▸ TECHNOLOGY POPULARIZED TO THE END ◂

2in1

HANDHELD DUAL CHANNEL
DIGITAL PHOSPHOR OSCILLOSCOPE

20M DDS Function Signal Generator

180MHz -3DB Analog Bandwidth

500MSPS Real-time Sampling Rate

Digital oscilloscope
+
Function Signal Generator
FNIRSI
RUN
100uS
CH1
200mV
200mV
AUT
CH1
SAVEP
SAVEW
MOVE
ORIG
ST/OST
MENU
ME AS
V +
H-
H+
V -
CH1
CH2
GEN
ZOOM
T +
T -
TRIG
50%
AUTO
AKO/OK
DPOX180H
Phosphor & zoom

▸ PERSPECTIVE EYE OF ELECTRONIC ENGINEERS ◂

- Digital Phosphor Technology
- Dual Channel
- Signal Generator
- ZOOM Scaling Time Base
- 20M Bandwidth Limit
- Cursor Mode
- Trigger Inhibition
- Intelligent Anti-burning
- Waveform Saving
- Grayscale & Color Temperature
- Chopping Wave Output
- Firmware Upgrade

50000
wfm/s

FFT
Spectrum

X-Y
Mode

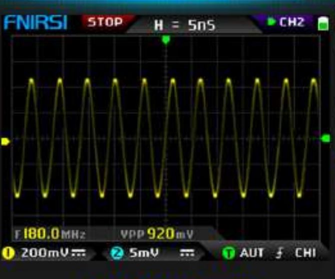
PARAMETERS

20M HARDWARE BANDWIDTH LIMITATION	supported	**DIGITAL PHOSPHOR TECHNOLOGY**	supported
COLOR TEMPERATURE DISPLAY	supported	**ZOOM SCALING TIME BASE**	supported
WAVEFORM OUTPUT	supported	**ADJUSTABLE AUTOMATICB-ANDWIDTH LIMITATION**	supported
CURSOR MEASUREMENT	Frequency/Period/Amplitude		

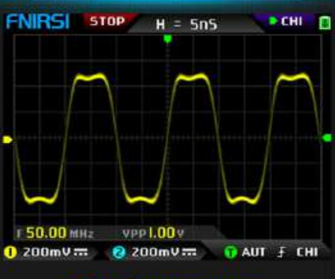
MODE	DPOX180H	**ROLL MODE**	supported
NUMBER OF CHANNELS	2	**X-Y MODE**	supported
ANALOG BANDWIDTH	180MHz	**AUTO-ADJUSTMENT**	supported
MAXIMUM SAMPLING RATE	500MSPS	**WAVEFORM MANAGER**	supported
INPUT COUPLING	DC/AC	**HIGH-VOLTAGE BURNOUT PROTECTION**	supported
RISE TIME	2.5ns	**SCREEN SIZE**	2.8 inches
STORAGE DEPTH	120Kpts	**SCREEN RESOLUTION**	320x240
INPUT IMPEDANCE	1MQ-18PF	**DISPLAY TECHNOLOGY**	IPS full view
VERTICAL SENSITIVITY	5mV~10V(1X)	**EXPANSION INTERFACE**	USB transmission interface
TIME BASE RANGE	5nS~50S	**AUTO POWER-OFF**	5minutes-2hours
DC ACCURACY	±2%	**FIRMWARE UPGRADE**	supported iso image upgrade
TIME ACCURACY	+0.01%	**CHARGING REQUIREMENTS**	5V 2A
TRIGGER DETECTION	Digital trigger	**BATTERY CAPACITY**	3000mAh
TRIGGER MODE	Auto/Single/Normal	**STANDBY TIME**	3.5 hours at full charge
TRIGGER EDGE	Rising/Falling	**DIMENSIONS**	135mmx90mm x40mm
MEASUREMENT RANGE	40mV~80V(1X)	**SIGNAL GENERATOR**	14 standard function signals
SCREENSHOT STORAGE	90	**WAVEFORM STORAGE**	250 groups
CAPTURE SIGNAL	500	**PARAMETER MEASUREMENT**	12 kinds
ACCESSORIES	200m probe x2,charger, usb date cable,manual.		

180MHZ BANDWIDTH AND 500MSPS REAL-TIME SAMPLING RATE

FNIRSI
FNIRSI
RUN
200uS
100uS
CHI
200mV
200mV
AUT
CHI
SAVEP
SAVEW
MOVE
ORIG
ME
V
H-
H+


FNIRSI
STOP
H = 5nS
CH2
F 180.0 MHz
VPP 920 mV
200mV
5mV
AUT
CHI

180M Sine wave


FNIRSI
STOP
H = 5nS
CHI
F 50.00 MHz
VPP 1.00 V
200mV
200mV
AUT
CHI

50M Square wave

2.8-INCH IPS HD DISPLAY

ADVANCED DIGITAL PHOSPHOR TECHNOLOGY

GRAYSCALE AND COLOR TEMPERATURE DISPLAY

Multi-level grayscale display capability.Waveform changes clearly reflected

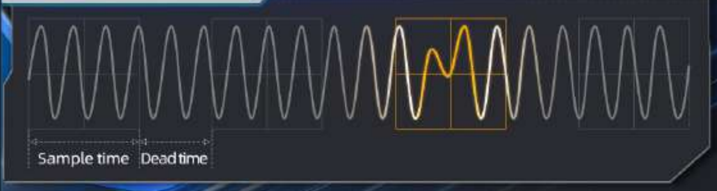
FNIRSI
FNIRSI
STOP
H = 50uS
CH2
F=4.999KHz
① 200mV
② 200mV
AUT
CH1
SAVEP
SAVEW
MOVE
ORIG
MOD/OK
AUTO
STO/RET
MENU
H+
TR

50000WFMS/S WAVEFORM REFRESHING RATE

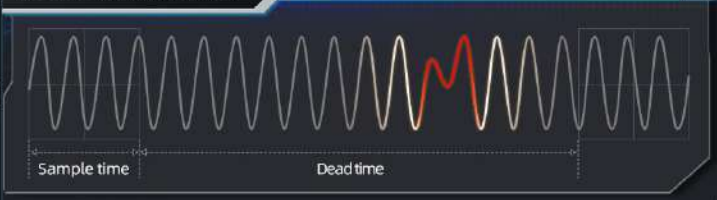
Making the abnormal waveforms nowhere to hide

FNIRSI
STOP
H = 200nS
CH2
① 200mV
② 200mV
AUT
CH1
SAVEP
STO/RET
MENU
SAVEW
MOVE
ORIG
MOD/OK
AUTO
H-
H+
CH1
CH2
GEN
ZOOM
TRIG

HIGH REFRESH RATE


Sample time
Dead time

LOW REFRESH RATE


Sample time
Dead time

▸ACCURATE REAL-TIME TRIGGER SYSTEM◂

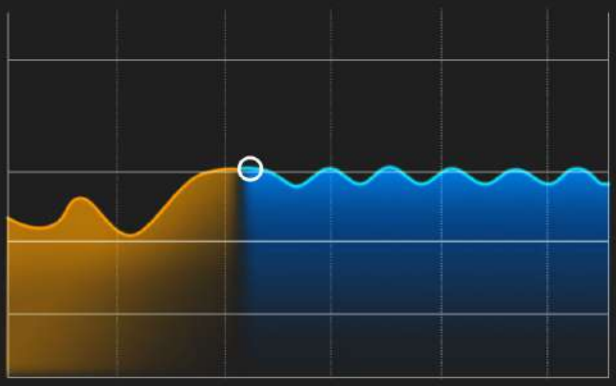
COMPREHENSIVE TRIGGER FUNCTION

Three trigger modes: automatic, single and normal;Rising edge & Falling edge

FNIRSI
FNIRSI
STOP
H = 50uS
CH2
CH1
AUT
500mV
200mV
ORIG
MOD-OK
AUTO
MOVE
SAVEW
SAVEP
STO-RET
MENU
H+
H-
CH2
CH1
GEN
V+
V-
MEAS
DPOX

ADAPTIVE ADJUSTABLE TRIGGER SUPPRESSION

Adaptive high frequency, low frequency, loud noise signal.Make the waveform clean and stable



● BEFORE INHIBITION ● AFTER INHIBITION

4 LANGUAGES CAN BE SWITCHED FREELY

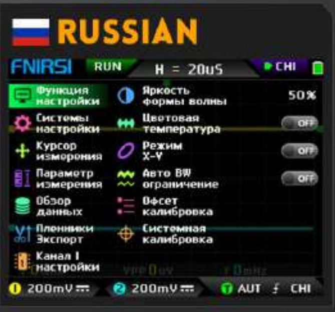
FNIRSI
FNIRSI
RUN
H = 20uS
CH1
Function settings
System settings

Waveform brightness 50%

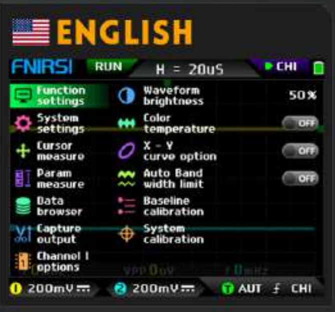
Color temperature OFF

Cursor measure
X - Y curve option
OFF
Param measure
Auto Band width limit
OFF
Data browser
Baseline calibration
Capture output
System calibration
Channel I options
VPP 0uV
F 0mHz
1 200mV
2 200mV
T AUT CHI
SAVEP
SAVEW
MOVE
ORIG

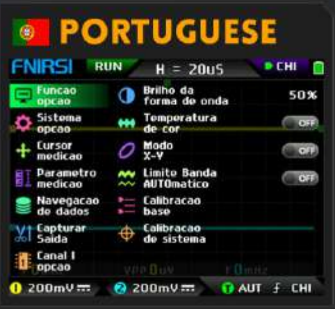
RUSSIAN


FNIRSI RUN H = 20uS CHI
Функция настройки
Яркость формы волны
50%
Системы настройки
Цветовая температура
OFF
Курсор измерения
Режим X-Y
OFF
Параметр измерения
Авто BW ограничение
OFF
Обзор данных
Офсет калибровка
Плоенники Экспорт
Системная калибровка
Канал I настройки
VPP 0uV
F 0mHz
1 200mV
2 200mV
T AUT CHI

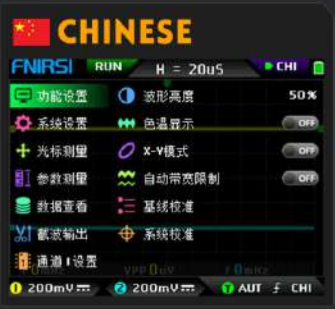
ENGLISH


FNIRSI RUN H = 20uS CHI
Function settings
Waveform brightness
50%
System settings
Color temperature
OFF
Cursor measure
X - Y curve option
OFF
Param measure
Auto Band width limit
OFF
Data browser
Baseline calibration
Capture output
System calibration
Channel I options
VPP 0uV
F 0mHz
1 200mV
2 200mV
T AUT CHI

PORTUGUESE


FNIRSI RUN H = 20uS CHI
Funcao opcao
Brilho da forma de onda
50%
Sistema opcao
Temperatura de cor
OFF
Cursor medicao
Modo X-Y
OFF
Parametro medicao
Limito Banda AUTOmatico
OFF
Navegacao de dados
Calibracao base
Capturar Saida
Calibracao de sistema
Canal I opcao
VPP 0uV
F 0mHz
1 200mV
2 200mV
T AUT CHI

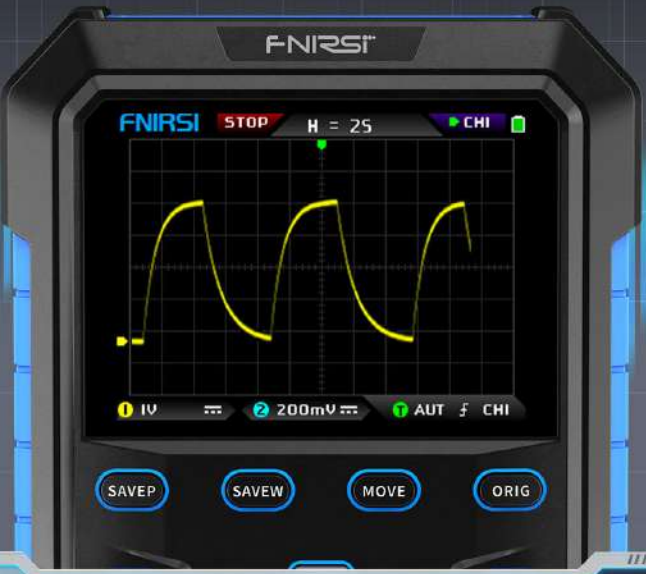
CHINESE


FNIRSI RUN H = 20uS CHI
功能设置
波形亮度
50%
系统设置
色温显示
OFF
光标测量
X-Y模式
OFF
参数测量
自动带宽限制
OFF
数据查看
基线校准
截波输出
系统校准
通道Ⅰ设置
VPP 0uV
F 0mHz
1 200mV
2 200mV
T AUT CHI

COMPREHENSIVE LEVELING SYSTEM

LARGE TIME BASE SCROLLING MODE

In scroll mode, Real-time monitor the level changes


FNIRSI
FNIRSI STOP H = 2S CHI
1 1V
2 200mV
T AUT CHI
SAVEP
SAVEW
MOVE
ORIG

Provides an additional magnified time base

FNIRSI RUN 200uS 20uS CHI
1 200mV
2 200mV
T AUT CHI
SAVEP
SAVEW
MOVE
ORIG
STO/RET
MENU
MEAS
H-
H+
CH1
CH2
GEN
ZOOM
MOD/DM
AUTO
DPOX180H
Phosphor & zoom

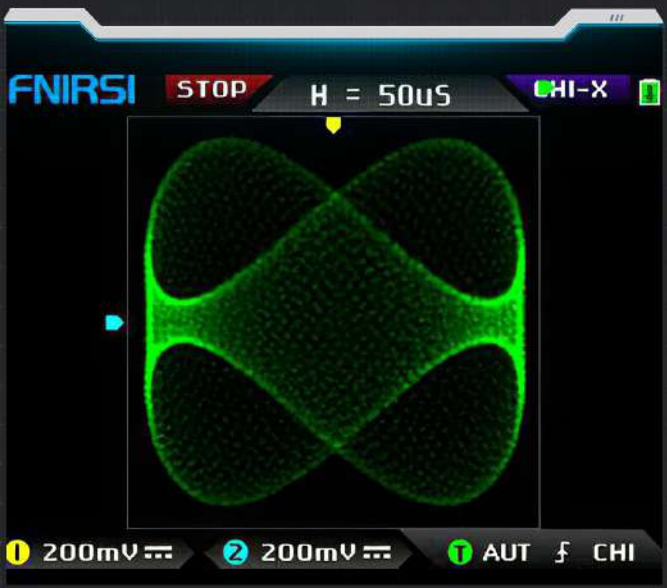
ZOOM

SCALING TIME BASE

Provide an additional magnification time base, which can provide 2~1000 times magnification viewing effect in running or paused state

DIGITAL PHOSPHOR XY MODE

Support digital phosphor technology, a closed curve graph generated by dual channels can be used to compare the amplitude, frequency and phase of two groups of signals


FNIRSI
STOP
H = 50uS
CHI-X
① 200mV
② 200mV
T AUT CHI

HIGH PERFORMANCE ANALOG FRONT-END

5MV HIGH SENSITIVITY

ULTRA-HIGH WAVEFORM SIGNAL-TO-NOISE RATIO

The analog front-end uses excellent shielding measures and a stable feedback system, and all parts with interference sources are far away from the analog front-end

FNIRSI
FNIRSI
STOP
H = 200uS
CH2
VPP 10.0mV
VPP 10.2mV
① 5mV
② 5mV
T AUT CH2
SAVEP
SAVEW
MOVE
ORIG
STO/RET
MENU
MOD/OK
AUTO
Measure the waveform of 10mv weak signal
No masking
Carrying mask function

20MHARDWARE BANDWIDTH LIMIT

The analog front-end has a built-in switchable 20MHz hardware bandwidth limiting component, and the -3DB attenuation bandwidth is 20MHz after it is turned on

FNIRSI
FNIRSI
STOP
H = 50nS
CH2
f10.000MHz
f4.999MHz
200mV
200mV
AUT
CH2
SAVEP
SAVEW
MOVE
ORIG
STO/RET
MENU
MEAS
MOD/OK
AUTO
V+
V-
H-
H+
CH1
CH2
T+
T-
TRIG
GEN
ZOOM
50%
DPOX180H
Phosphor & zoom

10M Square wave, the rise and fall time becomes longer after filtering out high-order harmonics, and the waveform becomes smooth

▸ DDS FUNCTION SIGNAL GENERATOR ◂

20M FUNCTION SIGNAL GENERATOR

The analog front-end has a built-in switchable 20MHz hardware bandwidth limiting component, and the -3DB attenuation bandwidth is 20MHz after it is turned on

20MHz
FNIRSI
FNIRSI
RUN
H = 20nS
CH1
F 20'000'000 Hz
Wave
Sin
Duty
50 %
f 20.00MHz
500mV
200mV
AUT
CH1
SAVEP
SAVEW
MOVE
ORIG
STO/RET
MENU
MOD/OK
AUTO

UNIQUE
CHOPPING OUTPUT FUNCTION

Cut a part or the whole part of various signals measured by the oscilloscope as the output signal of the signal generator, and can store up to 500 customized signals.

ka!
FNIRSI
STOP
H = 20nS
CSR
CH1
200mV
200mV
AUT
CH1
SAVEP
SAVEW
MOVE
ORIG
STO/RET
MOD/OK
MENU
AUTO
MEAS
V+
V-
H-
H+
T+
T-
TRIG
CH1
CH2
GEN
ZOOM
50%
DPOX180H
Phosphor & zoom
20'000'0
H = 50uS
4.999KHz

HIGH PRESSURE ANTI-BURNING AND SUPER BATTERY LIFE

400V HIGH VOLTAGE
ANTI-BURN PROTECTION

The design of the input stage of the analog front-end all adopts high-voltage resistant design, and the overall design can reach 400V withstand voltage and prevent burning in any gear.

FNIRSI
MOVE
ORIG
MENU
H-
H+
CH1
CH2
GEN
ZOOM
DPOX180H
Phosphor & zoom

3000MAH

LITHIUM BATTERY

SCHEDULED SHUTDOWN 5V2A FAST CHARGING

Built-in 3000mah large-capacity rechargeable lithium battery,Battery life up to 4 hours,Timing shutdown: 5 minutes to 2 hours (can be set).

FNIRSI
Model:DPOX180H
Product Name:Digital phosphor oscilloscope
5V/2A
180MHz/500MS

MULTIPLE FUNCTIONS

ONE-BUTTON

AUTOMATIC ADJUSTMENT

MANUAL CURSOR MEASUREMENT

Equipped with an efficient one-button automatic adjustment function, the signal measurement is simple and fast; and the cursor can measures the waveform parameters accurately.

FNIRSI
FNIRSI
STOP
H = 200nS
CH1
F = 1.866MHz
T = 536.0nS
V1 = 480mV
V2 = 480mV
AUT
CH2
200mV
200mV
SAVEP
SAVEW
MOVE
ORIG
AUTO
MENU
TRIG
H-
H+
CH1
CH2
MEAS
GEN
ZOOM
50%
DPOX180H
Phosphor & zoom
CURSOR MEASUREMENT
AUTOMATIC ADJUSTMENT

FFT SIMPLE

SPECTRUM DISPLAY

Qualitative overview of the spectral content of the current signal

FNIRSI
RUN
H = 200uS
CH2
500mV
AUT
CHI
STO/RET
MENU
AUTO
MEAS
TRIG
V
H-
H+
T
CH1
CH2
GEN
ZOOM
50%
DPOX180H
Phosphor & zoom

▸ DATA STORAGE AND VIEWING ◂

WAVEFORM SAVING
SCREENSHOT SAVING

Built-in 120Mbit storage space, can store up to 250 groups of waveforms and 90 screenshots, can view full-screen pictures and perform secondary analysis on saved waveform data.

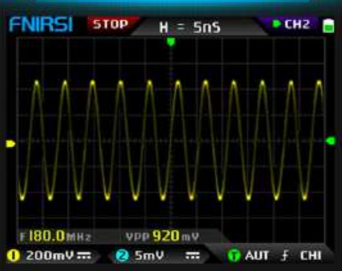
FNIRSI
61.bmp
47.bmp
41.bmp
48.bmp
42.bmp
30.bmp
3.bmp
60.bmp
32.bmp
1.bmp
72.bmp
35.bmp
4.bmp
Next page
34.bmp
6.bmp
Last page
27.bmp
Delete
Select
ORIG
MOVE
SAVEW
SAVEP
STO/RET
MENU
H-
H+

≈ IMAGE EXPORT ≈
FIRMWARE UPGRADE

Connect to the computer through a USB cable, copy the system image file iso to the U disk to upgrade and you can also directly view or copy the BMP image files saved in the oscilloscope.

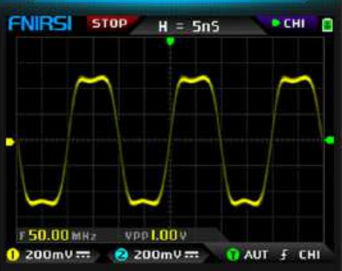
USB
USB
SAVEP
SAVEW
MOVE
ORIG

STO/REC
MENU
AUTO
ME AS
H-
H+
TR IG
CH1
CH2
50 %
GEN
ZOOM
DPOX180H
Phosphor & zoom


FNIRSI
STOP
H = 5nS
CH2
F 180.0MHz
VPP 920mV
1 200mV
2 5mV
AUT
CH1

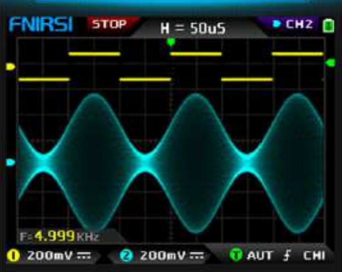
500MSPS REAL-TIME SAMPLING RATE

Four 125MSPS 8-bit high-speed ADC are interleaved and sampled Internally. The clock phase of each group of ADC is strictly controlled to ensure that the clock phase error is less than 0.5 degrees. Combined with the vertical anti-aliasing balance algorithm of parallel processing inside the FPGA.The gain and bias characteristics of each ADC are exactly the same, which overcomes the embarrassing situation of the unsatisfactory combination effect of traditional multi-core ADC, and the actual performance is no different from that of a 500M SPS single-core ADC.


FNIRSI
STOP
H = 5nS
CH1
F 50.00MHz
VPP 1.00V
1 200mV
2 200mV
AUT
CH1

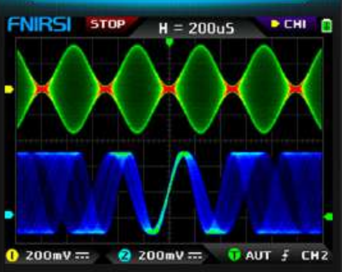
180MHZ ANALOG BANDWIDTH

The analog front-end bandwidth of each channel is 180MHz. Under the premise of ensuring excellent flatness, the strict test-3DB attenuation bandwidth is above 180MHz. When only one channel is turned on, the sampling rate of a single channel reaches 500MSPS, and the bandwidth is 180MHz. When two channels are turned on, the sampling rate of each channel is 250MSPS. Limited by the sampling rate, the bandwidth is limited to 90MHz.


FNIRSI
STOP
H = 50uS
CH2
F: 4.999KHz
1 200mV
2 200mV
AUT
CH1

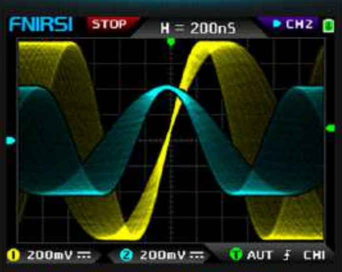
DIGITAL PHOSPHOR TECHNOLOGY

Digital phosphor technology is the benchmark of modern high-quality oscilloscopes,and the cost and design difficulty are very high. Digital phosphor technology can not only overcome the severe glitches caused by the discrete noise of traditional oscilloscopes, but more importantly, it can further see the distribution and probability characteristics of the signal, and can further see the real situation of the signal.The probability of appearing in the brighter area is relatively high, and the probability of appearing in darker area is small. Not only that, but also the speed of the rise and fall of the step signal can be seen. The faster the rise time, the brightness of the edge will be darker, the brighter the edge brightness is if it is slower.


FNIRSI
STOP
H = 200uS
CH1
1 200mV
2 200mV
AUT
CH2

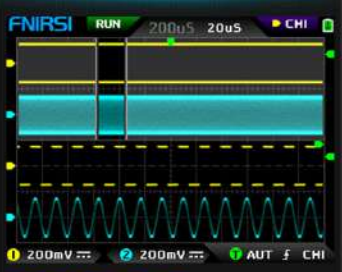
GRAY SCALE AND COLOR TEMPERATURE DISPLAY

With the support of the digital phosphor system, the color display of the waveform can be divided into two types: grayscale and color temperature. Grayscale refers to the distribution of the waveform and is represented by different brightnesses of the same color. Channel 1 is yellow and channel 2 is cyan. The temperature refers to the distribution of the waveform in different colors. Thetemperature range of channel 1 transitions from green to red, the green is the lowest, and the red is the highest. The temperature range of channel 2 transitions from blue to green, blue is the lowest , green is the highest.


FNIRSI
STOP
H = 200nS
CH2
1 200mV
2 200mV
AUT
CH1

50000WFM/S WAVEFORM REFRESH RATE

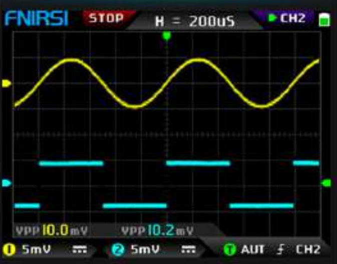
The ultra-high waveform refresh rate is often combined with digital phosphor technology to display it in grayscale or color temperature, and the abnormal waveforms with low probability will be displayed more clearly on the screen. A high-speed communication interface is used between ARM and FPGA. The


FNIRSI
RUN
200uS
20uS
CH1
1 200mV
2 200mV
AUT
CH1

ZOOM TIME BASE

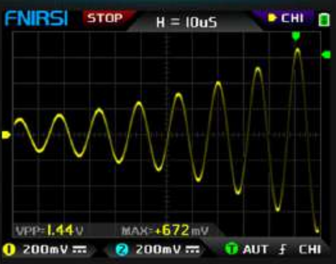
Provide an additional magnified time base, which can provide 2~1000 times magnified viewing effect in the running or paused state. After ZOOM is turned on, the time base is divided into 2 time bases, the top is the main time base, and the bottom is the ZOOM time When operating, it will automatically correspond to the ZOOM time base, while the above main original data is converted into digital fluorescent three-dimensional data by the FPGA. The design is very difficult, but the efficiency is very high. Compared with the ARM software algorithm processing, it is many times faster.

time base keeps the parameters unchanged. This mode is especially suitable for analyzing digital logic signals such as communication timing or protocols. The main time base has a complete digital fluorescent display, so that the main time base The time base can see the probability characteristics of the global signal distribution. The waveform of the ZOOM time base will reduce the gray level with the increase of the zoom ratio, and will gradually locate the specific position of the main time base more accurately.


FNIRSI
STOP
H = 200uS
CH2
VPP 10.0 mV
VPP 10.2 mV
① 5mV
② 5mV
AUT
CH2

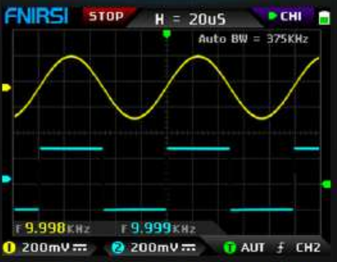
HIGH SENSITIVITY AS LOW AS 5MV/DIV

The final stage of the analog front-end adopts a 1.8GHz bandwidth, the slew rate is as high as 4500V/us, and it can also provide a high-speed operational amplifier with 500M bandwidth under the condition of AV=+10. The overall design makes the sensitivity reach 5mV high sensitivity. It still maintains a bandwidth of 180MHz at a high sensitivity of 5mV, and still maintains excellent flatness.


FNIRSI
STOP
H = 10uS
CH1
VPP=1.44 V
MAX=+672 mV
① 200mV
② 200mV
AUT
CH1

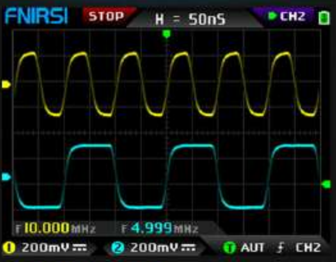
ULTRA-HIGH WAVEFORM SIGNAL-TO-NOISE RATIO

The signal-to-noise ratio does not refer to the specific noise floor, but the ratio of the signal amplitude to the noise amplitude. The higher the value, the cleaner and clearer the waveform. The analog front-end uses excellent shielding measures and a stable feedback system. All parts with interference sources are kept away from the analog front-end. The PCB uses a 4-layer immersion gold board. The terminal is also isolated by a shield to protect the signal from external interference in an all-round way.


FNIRSI
STOP
H = 20uS
CH1
Auto BW = 375KHz
F 9.998 KHz
F 9.999 KHz
① 200mV
② 200mV
AUT
CH2

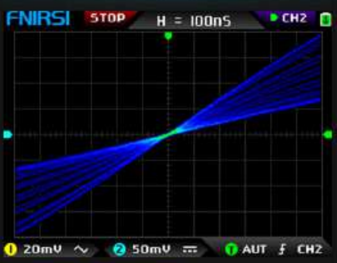
ORIGINAL ADJUSTABLE AUTOMATIC BANDWIDTH LIMITING

Adjustable automatic bandwidth limit means that the bandwidth will automatically limit the bandwidth according to the current time base gear, and the degree of limitation can be adjusted freely, and this function can be turned on or off. It is especially suitable for the measurement and analysis of signals containing noise. function plus adaptive adjustable trigger suppression, can make the noisy signal clean and stable. The traditional high-resolution mode requires the time base to be greater than a certain gear to work slowly, and the specific bandwidth value is also uncertain. Digital filtering can only manually set a certain bandwidth value, which is extremely inconvenient when debugging noise signals, and the distortion is large and time-consuming.


FNIRSI
STOP
H = 50nS
CH2
F 10.000 MHz
F 4.999 MHz
① 200mV
② 200mV
AUT
CH2

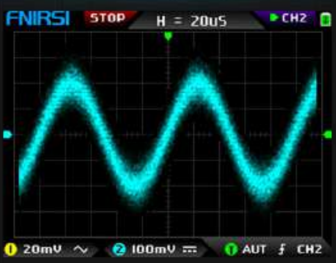
20M HARDWARE BANDWIDTH LIMIT

The analog front-end has a built-in switchable 20MHz hardware bandwidth limiting component. After it is turned on, the -3db attenuation bandwidth is 20MHz. Users can use this function to filter out high-frequency noise above 20MHz. Compared with digital filters, analog filters have more natural and smooth attenuation. The harmonic attenuation of the square wave is relatively uniform, and the distortion is smaller. If this function is combined with the adjustable automatic bandwidth limit, the effect of filtering noise will be more obvious.


FNIRSI
STOP
H = 100nS
CH2
① 20mV
② 50mV
AUT
CH2

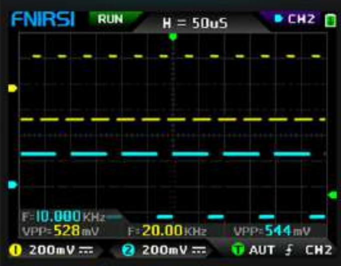
DIGITAL TRIGGER TECHNOLOGY

Oscilloscope triggers are mainly divided into analog trigger and digital trigger. Analog trigger has lower requirements for FPGA design, while digital trigger has higher requirements for FPGA design. These problems will not occur with digital triggers, and digital triggers have more advantages in comparison.


FNIRSI
STOP
H = 20uS
CH2
① 20mV
② 100mV
AUT
CH2

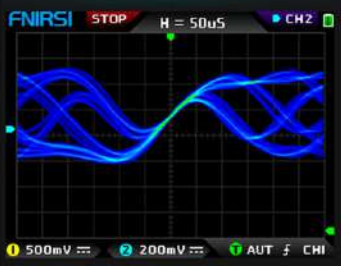
ORIGINAL ADAPTIVE ADJUSTABLE HIGH FREQUENCY REJECTION

The high-frequency suppression of conventional oscilloscopes does not know the frequency band and strength of the suppression. It only suppresses the signal of a specific frequency band with a specific strength. If the frequency is high or low, or the noise is too large, it cannot be suppressed to achieve stable triggering. The oscilloscope's adaptive adjustable trigger suppression technology can not only automatically trigger and suppress high-frequency components according to the waveform frequency characteristics, but also the intensity can be adjusted, that is, it can control all signals regardless of frequency or noise. Stable triggering, especially suitable for measurement and analysis of larger noise signals


FNIRSI
RUN
H = 50uS
CH2
F:10.000KHz
VPP:528mV
F:20.00KHz
VPP:544mV
200mV
200mV
AUT
CH2

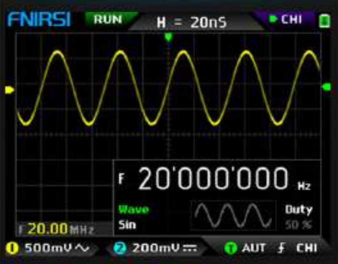
DUAL CHANNEL INPUT

It has 2 input channels, and the input impedance is 1M ohm (18PF). It can measure 2 different sets of signals at the same time, and can compare the 2 sets of input signals to judge and analyze problems. Compared with single channel, it has wider applicability.


FNIRSI
STOP
H = 50uS
CH2
500mV
200mV
AUT
CHI

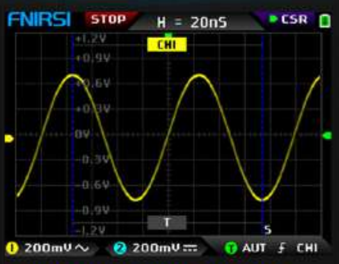
COMPLETE TRIGGER FUNCTION

It has three trigger modes: automatic, single and regular. In the automatic trigger mode, the waveform display will always be refreshed no matter whether the trigger condition is met or not. The single-shot trigger mode is designed to pause immediately once the trigger condition is met, mainly to test burst signals. Conventional trigger means that the display can only be refreshed after the trigger condition is met, mainly testing logic signals.


FNIRSI
RUN
H = 20nS
CHI
F 20'000'000 Hz
Wave
Sin
Duty
50 %
F 20.00MHz
500mV
200mV
AUT
CHI

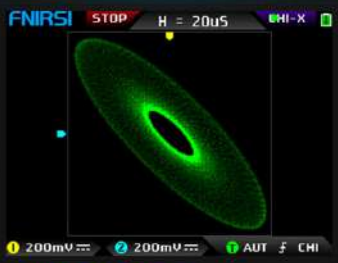
20M DDS FUNCTION SIGNAL GENERATOR

Built-in 20MHz DDS function signal generator with 14 standard function signals, namely sine wave, square wave, triangle wave, positive sawtooth, anti-sawtooth, staircase wave, half-wave rectification, full-wave rectification, exponential wave, logarithmic wave, For exponential, square root, multi-tone, and Sine pulse waves. The output amplitude is fixed at 1VPP, the frequency of sine waves is up to 20MHz, and the frequency of other waveforms is up to 10MHz. The adjustable frequency step is 1Hz, instead of other half frequency steps into the way.


FNIRSI
STOP
H = 20nS
CSR
CHI
+1.2V
+0.9V
+0.6V
+0.3V
0V
-0.3V
-0.6V
-0.9V
-1.2V
T
S
200mV
200mV
AUT
CHI

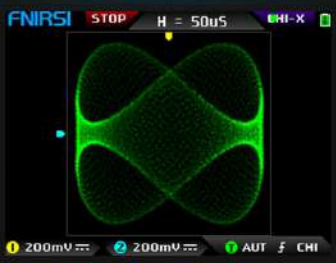
ORIGINAL CHOPPING OUTPUT

Cut wave output is to cut a part or whole part from various signals measured by the oscilloscope as the output signal of the signal generator. It can store up to 500 customized signals. It is different from the traditional arbitrary signal generator. Any signal occurs However, the intercepted waveform is very objective, completely consistent with the signal characteristics generated by the functional circuit module, and the maximum frequency can reach 10MHz. In many test and analysis occasions Played a greater role in helping, currently no oscilloscope and signal generator has this function.


FNIRSI
STOP
H = 20uS
CHI-X
200mV
200mV
AUT
CHI

LARGE TIME BASE SCROLLING MODE

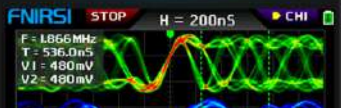
When the time base is greater than 50mS, it will automatically enter the scrolling mode. This mode is mainly used for real-time monitoring of slow level changes, such as battery charge and discharge curves, etc.

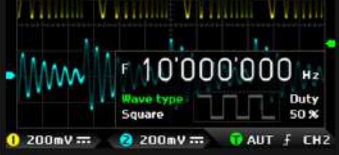

FNIRSI
STOP
H = 50uS
CHI-X
200mV
200mV
AUT
CHI

X-Y MODE DISPLAY WITH DIGITAL PHOSPHOR

In the X-Y mode, the signal of channel 1 is used as the X axis, and the signal of channel 2 is used as the Y axis to generate a closed curve graph, which can be used to compare the amplitude, frequency and phase of the two groups of signals. This mode also supports digital phosphor technology, and the X-Y mode of many digital phosphor oscilloscopes does not support fluorescent display.

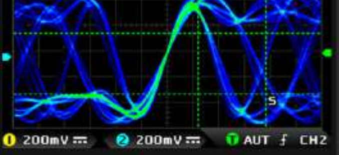
FNIRSI
RUN
H = 10uS
CH2


FNIRSI
STOP
H = 200nS
CHI
F = 1.866MHz
T = 536.0nS
V1 = 480mV
V2 = 480mV


F 10'000'000 Hz
Wave type
Square
Duty
50%
200mV
200mV
AUT
CH2

ONE-BUTTON AUTOMATIC ADJUSTMENT

Built in high efficiency control algorithm, automatic identification of signal characteristics, adaptive 25%, 50%, 75% trigger level, even for square wave dead zone signals or multi-edge signals can be adjusted. The adjustment accuracy is high, and the adjusted waveform appears in the center of the screen (when using dual channels, the waveform of channel 1 is in the center of the upper half, and the waveform of channel 2 is in the center of the lower half).


200mV
200mV
AUT
CH2

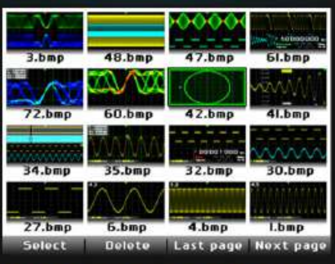
MANUAL CURSOR MEASUREMENT

When the test signal is too noisy or contains a square wave with a spike signal, the parameters automatically measured by the system will be affected and become inaccurate, or when a certain period of the signal needs to be measured, then the amplitude of the signal needs to be read manually or period to calculate its peak-to-peak value and frequency.

FNIRSI
STOP
H = 100uS
CH2
200mV
200mV
AUT
CH2

ONE-BUTTON WAVEFORM/ SCREENSHOT SAVE

Waveform/screenshot saving is to save the screen display content/original waveform data to the local disk, the format is BMP/WAV file, built-in 120Mbit storage space, and can store up to 90 pictures or 250 groups of waveforms.


3.bmp
48.bmp
47.bmp
61.bmp
72.bmp
60.bmp
42.bmp
41.bmp
34.bmp
35.bmp
32.bmp
30.bmp
27.bmp
6.bmp
4.bmp
1.bmp
Select
Delete
Last page
Next page

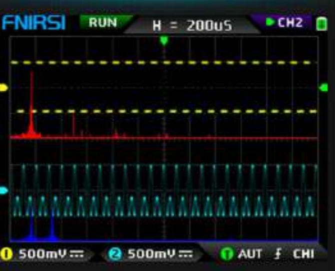
POWERFUL DATA BROWSER

The data browser can browse and view the WAV data files, BMP image files and clipping files in the local disk. The browser can perform thumbnail browsing, viewing, page turning, selection, deletion and other operations of the files, just like the pictures on the mobile phone same as the viewer. The viewer can view full-screen pictures and perform secondary analysis on saved waveform data.

FNIRSI
STOP
H = 50uS
CH2
500mV
200mV
AUT
CH1

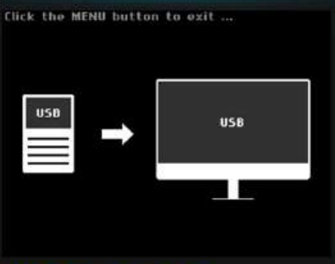
IPS FULL VISION HD DISPLAY

Sampling 2.8-inch IPS full-vision high-definition display, the contrast of the IPS panel is high, the display content can be clearly seen from any angle, and it can be seen clearly even under sunlight. Combined with digital fluorescent display technology, the characteristics of the waveform can be seen at a glance.


FNIRSI
RUN
H = 200uS
CH2
500mV
500mV
AUT
CH1

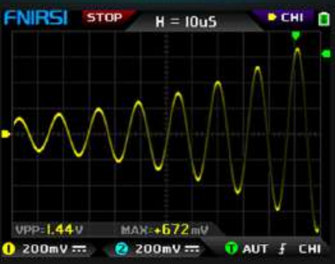
FFT SPECTRUM DISPLAY

This function can qualitatively view the spectrum components of the current signal, it is not a spectrum analyzer function for professional quantitative measurement.


Click the MENU button to exit ...

USB DATA EXPORT

It can be connected to the computer through a USB data cable to view or copy the BMP image files saved in the oscilloscope. WAV files do not support viewing on the computer temporarily. You can also copy the system image file iso to the oscilloscope for system upgrade.

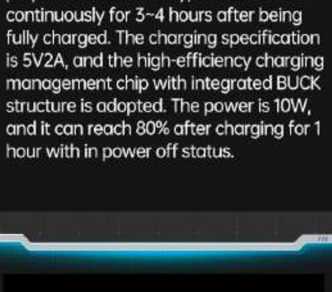

FNIRSI
STOP
H = 10uS
CH1
VPP:1.44V
MAX:+672mV
200mV
200mV
AUT
CH1

3000MAH LITHIUM BATTERY/2A FAST CHARGING

Built-in 4.2V/3000mah rechargeable polymer lithium battery, which can work continuously for 3~4 hours after being fully charged. The charging specification is 5V2A, and the high-efficiency charging management chip with integrated BUCK structure is adopted. The power is 10W, and it can reach 80% after charging for 1 hour with in power off status.

HIGH VOLTAGE ANTI-BURN PROTECTION

The design of the analog front-end input stage is all high-voltage resistant design, including high-voltage resistors, high-voltage capacitors, clamping diodes, etc. The overall design can reach a withstand voltage of more than 400V in any gear without being burned out.



TIMED AUTOMATIC SHUTDOWN

After turning on the timer shutdown function, you can set the timer shutdown time from 5 minutes to 2 hours, so you don't need to worry about running out of power when you forget to turn it off.