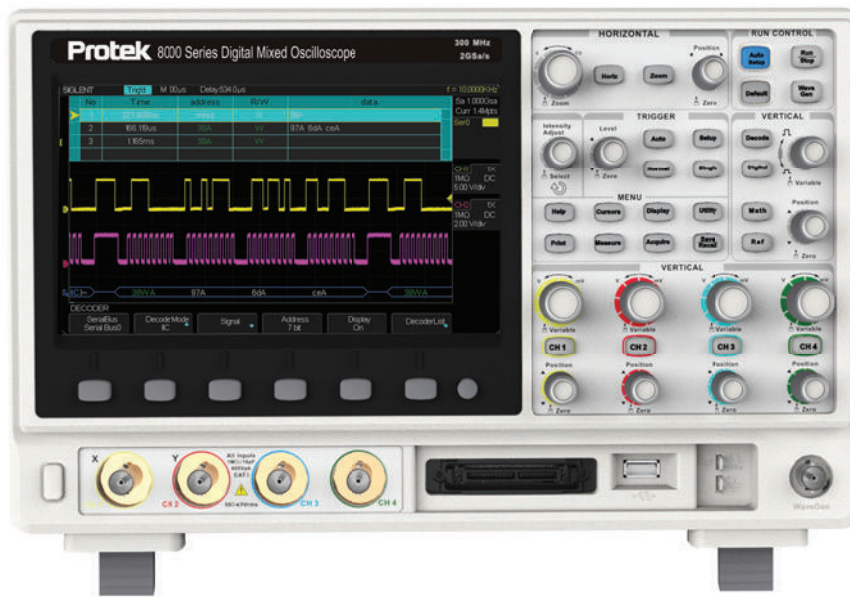
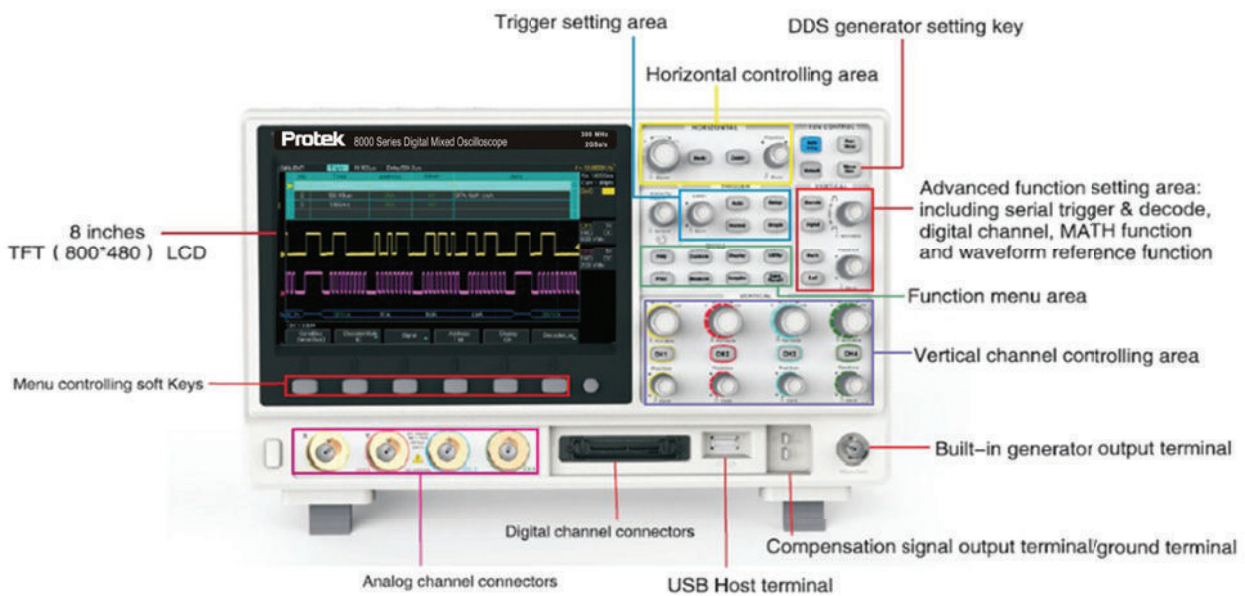


Digital Mixed Oscilloscope

Protek 8000 Series

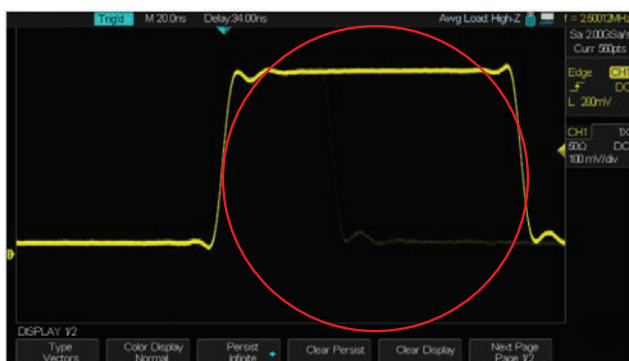


| Model | Bandwidth | Channels | Real time Sampling-Rate | Memory Depth |
|-------------|-----------|---|-------------------------|--------------|
| Protek 8072 | 70 MHz | 2 CH + Digital 8Channel (Digital Channel Opt) | 2 GSa/s | 28 Mpts |
| Protek 8102 | 100 MHz | | | |
| Protek 8074 | 70 MHz | 4 CH + Digital 8Channel (Digital Channel Opt) | | |
| Protek 8104 | 100 MHz | | | |
| Protek 8204 | 200 MHz | | | |
| Protek 8304 | 300 MHz | | | |

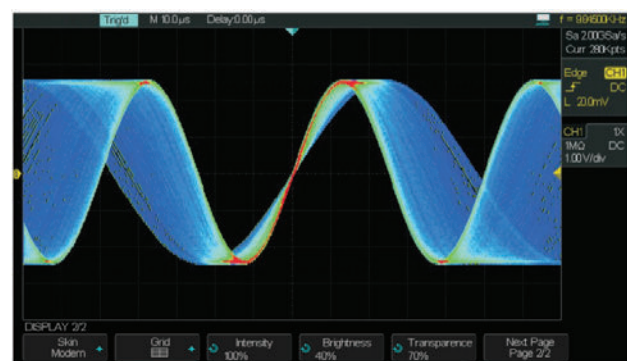


Features

- Bandwidth 70MHz,100MHz,200MHz,300MHz
- Real time sampling rate, Analog channel: 2GSa/s, Digital channel: 500MSa/s (optional)
- Provide 2 or 4 analog channels, 8 digital channels (optional)
- Built-in 25MHz function/arbitrary waveform generator (optional)
- A variety of serial protocol trigger and decode functions (I2C, SPI, UART/RS232, CAN, LIN)
- A variety of smart trigger functions (Pattern, Window, Interval, Drop-Out, Runt)
- Support HDTV trigger
- Support history function and segmented memory (std. up to 80,000 frames)
- Waveform capture rate up to 110,000wfs/s
- Hardware-based zoom function and high speed Pass/Fail function technology
- 32 kinds of automatic waveform measurements , support measurement statistics function
- Advanced waveform math operations (FFT, differential, integral, square root)
- Complete connectivity: USB Host, USB Device (USBTMC, Pict-Bridge), LAN(VXI-11), EXT-TRIG,PASS/FAIL,TRIG OUT
- Support SCPI remote control commands
- Multi-language user interface and built-in online help system
- 8" TFT-LCD(800*480)



Waveform capture rate up to 110,000wfs/s, for quick capture of glitches on signal or abnormal signal.

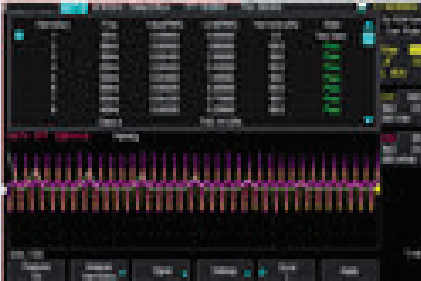

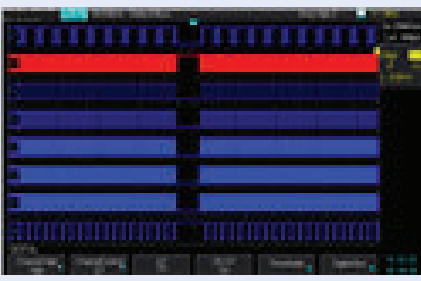
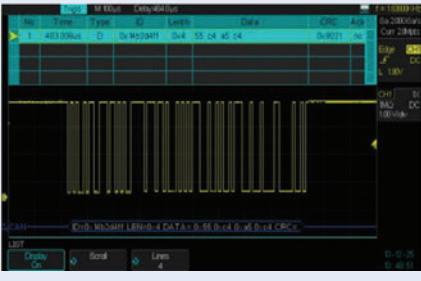


Support 256 intensity grading and color temperature waveform display. Above is color temperature figure for FM signal.

Specifications

| Description | Specification | | | | | |
|-----------------------------|---|---------|--------------------------|---------|---------|---------|
| | 8072 | 8102 | 8074 | 8104 | 8204 | 8304 |
| Analog Bandwidth | 70MHz | 100MHz | 70MHz | 100MHz | 200MHz | 300MHz |
| Channels | 2 CH + Digital 8CH (Opt) | | 4 CH + Digital 8CH (Opt) | | | |
| Real time Sampling rate | 2 Gsa/s | | | | | |
| Waveform capture rate | 110,000 wfs/s max | | | | | |
| Input-Impedance | $(1M\Omega \pm 2\%) \parallel (20pF \pm 4pF)$, $50\Omega : 50\Omega \pm 2\%$ | | | | | |
| Memory Depth | Std. 28 Mpts | | | | | |
| Rise Time | <5.0 ns | <3.5 ns | <5.0 ns | <3.5 ns | <1.7 ns | <1.2 ns |
| Time Base Range | 1ns/div ~ 50s/div | | | | | |
| Time Base Accuracy | ± 25 ppm | | | | | |
| Vertical Sensitivity | 2 mV/div ~ 10 V/div | | | | | |
| Vertical Resolution | 8 bit | | | | | |
| Trigger Mode | Auto, Normal, Single (Edge, Slope, Pulse width, Video, Window, Interval, Drop out, Runt, Pattern) | | | | | |
| Serial Decode & Trigger | I2C, SPI, UART, RS-232, CAN, LIN Serial Trigger& Decode Support, HDTV Trigger Support | | | | | |
| Maximum Input Voltage | 400 Vrms, CAT I, 10X, $1M\Omega$ | | | | | |
| 32 Kind Auto Measure System | Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROVshoot, FOVShoot, RPRESshoot, FPRESshoot, Rise-time, Fall-Time, Freq, Period, +Wid, -Wid, +DUT, -DUT, Bwid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF | | | | | |
| Technical Support | 12'Kind Multi Language, XY, ROLL, ZOOM Mode, Skin & Display Mode, Math(+, -, x, ÷, FFT, d/dt, ∫ dt, √) Support / 25MHz 1CH AFG (Optional) | | | | | |
| Interface | USB Host&Device (USB-TMC, PictBridge), LAN(VXI-11), Pass/Fail, Trigger-Out, GPIB(Optional) | | | | | |
| Display | 8" inch TFT Display (800x480) | | | | | |
| Size (mm) | 112mm(W) x 224mm(H) x 352mm(D) | | | | | |
| Weight (kg) | No Optional 3.4kg(2CH), 3.6kg(4CH) / In Optional - 4.9kg(2CH), 5.2kg(4CH) | | | | | |

Protek 8000 Series Digital Mixed Oscilloscope Option

| Option | Model | Description |
|---|-----------------|--|
|  | Protek 8000_PA | Power-Analyzer Soft ware / Hard ware (Protek-8000series only) |
|  | Protek 8000_AFG | 25MHz, 1Channel Function/arbitrary Waveform generator (Protek-8000series only) |
|  | Protek 8000_LA | Digital 8channel Logic Analyzer (Protek-8000series only) |
|  | Protek 8000_DC | Decoding optional accessories for I2C, SPI, UART/RS232, CAN, LIN signal (Protek-8000series only) |