Oscilloscope Education And Training Kit
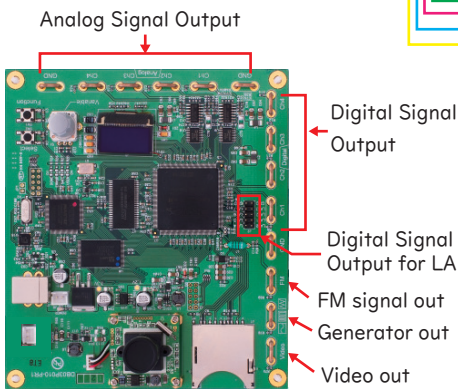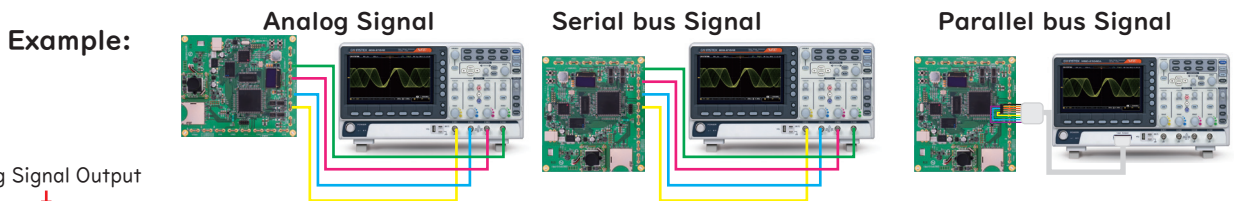
GW INSTEK
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GDB–03 Oscilloscope Training Kit

### Signal source for learning both the basic and the advanced functions of a Digital Storage Oscilloscope

The GDB–03 training kit allows you to learn both the basic and the advanced functions of the GDS–3000 Series, GDS–2000A Series, GDS–2000E Series, MSO–2000E Series, MDO–2000E Series and GDS–1000B Series Digital Storage Oscilloscope (DSO). Following the training procedures of this training kit, you will quickly understand the basic operations of a DSO, and the unique features, which represents a typical hi–tech DSO today.

The training kit is a signal generator board capable of producing waveforms, which contain various real–life scenarios you might encounter. With the GDB–03 training kit and the included curriculum, you are able to acquire adequate knowledge in using a DSO with advanced features.

Example:

Analog Signal	Serial bus Signal	Parallel bus Signal

Analog Signal Output

Digital Signal Output

Digital Signal Output for LA

FM signal out

Generator out

Video out

The camera module

Example:
Trigger and decode CAN signal

CAN Signal	
Bit Rate	10k, 20k, 50k, 125k, 250k, 500k, 800k, 1Mbps
H/L	CAN_H, CAN_L
Bit Rate	1.2k, 2.4k, 4.8k, 9.6k, 10.417k, 19.2kbps
Polarity	Normal, Invert

CAN_H
125kbps
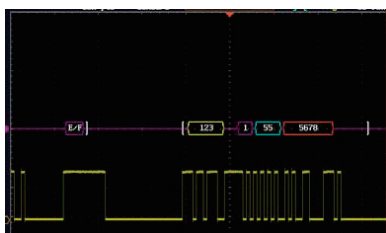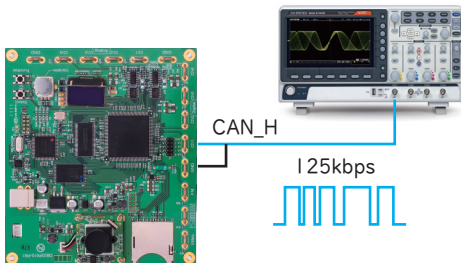
SPECIFICATIONS

The GDB–03 provides 9 basic and 19 advanced oscilloscope training signals

BASIC OSCILLOSCOPE TRAINING	
Lab 1	Connect and view a waveform
Lab 2	Compensate the probe (1 kHz square wave)
Lab 3	Adjust waveform scale and position (square wave)
Lab 4	Measure the waveform by manual (square wave ; frequency counter
Lab 5	Automatic measurement (GDB–03 including noise function ; auto measure)
Lab 6	VPO (VPO signal)
Lab 7	Autoset function (Fit screen)
Lab 8	Automatic range
Lab 9	Save data using hardcopy function

ADVANCE OSCILLOSCOPE TRAINING	
Lab 1	Automatic measurement (gating measurement)
Lab 2	Using peak detect mode
Lab 3	Low speed signal measurement
Lab 4	Noisy signal measurement
Lab 5	Using zoom timebase function
Lab 6	Transient signal measurement
Lab 7	Lissajous waveform & phase measurement
Lab 8	Runt trigger
Lab 9	Video trigger
Lab 10	Rise & Fall trigger
Lab 11	Pulse width trigger
Lab 12	Hold off function
Lab 13	Split window 1
Lab 14	Split window 2
Lab 15	UART signal 2
Lab 16	I^2C signal
Lab 17	SPI signal
Lab 18	CAN signal
Lab 19	LIN signal

Generator	
	Waveform: Sine wave, square wave, triangle, selectable
	Frequency: 1Hz to 999Hz, variable

Video Out	
	Output video signal from CCD camera: 720 × 480I (NTSC) / 720 × 576I (PAL)

POWER SUPPLY	
	5V DC, USB or auxiliary power input

ACCESSORIES:	
	CD x 1, GTL–246 USB 2.0 A–B Type cable

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