

#### UNIVERSAL ENGINEERING PLATFORM UEP CAT Ver 4.9

YES01, NO.1 Company in exporting technical teaching equipment in 2020 UNIVERSAL ENGINEERING PLATFORM is an electronic engineering program which can be also used as a virtual laboratory instrumentation to choose various modules with one UEP platform.

YES *C1* 



**YESA-7100A** 

Our UNIVERSAL ENGINEERING PLATFORM engineering electronics program provides comprehensive instruction with hands-on activities. The program can be tailored to support specific courses by selecting from an extensive range of Analogue and Digital circuit study modules.

Each study module includes a circuit board with printed lab manual. By mounting a circuit board onto either the UNIVERSAL ENGINEERING PLATFORM its electronic components can be powered, interconnected and monitored using either virtual or real test instrumentation.

The program offers expansion capabilities that include specialist electronics area such as Micro-controllers, Autotronics, Electronics.

Throughout the hands-on activities covered by the program, continuous use is made of fault insertion for troubleshooting and diagnostics. Students are directed through a logical faultfinding process that they can later apply to any electronic system.

A number of electronics project resources can help students develop component manipulation and circuit construction skills with both bread boarding systems and strip board soldered circuit.

YES

Supplied Benefits



- Convenient module changes with One-touch connection way.
- Supply all input power by a main component .
- DC, AC power signal about input signal is available with an additional function generator.
- Comparison experiment is available about changing of characteristics and variables .
- Easy access about circuit with graphic expression of module circuits.
- Digital Multimeter, Function Generator are included in the main equipment and also.
- Waveform of function Generator is consist of sine wave, triangle wave. square wave, saw tooth wave.
- Resource control using a 10.1 inches Tablet PC and optional Oscilloscope drive. (Option)



#### UEP

### UNIVERSAL ENGINEERING PLATFORM

### Specification\_YESA-7100A

Power Supply	DC Output : +/-0~20V 2A, +/-5V 1A,+/-15V 1A AC Output : 24V 0.5A, 12V 0.5A	Inner oscilloscope (Optional)	Channels : 2 Vertical resolution : 8bits Bandwidth : 25MHz Input ranges : +50mV ~ +20V
Digital Multimeter	AC/DC Voltage : 1mV ~ 400V DC Current : 1mA ~ 4A R : 0~4MΩ		Overvoltage protection : +100V Memory 16KB Maximum Sample rate : 200MS/s(ETSmode : 4GS/s) Trigger modes : None, auto, repeat, single Automatic measurements : Scope mode, Statistics
Function Generator	1Hz ~ 100kHz (Max 20Vp-p) sine wave, triangle wave, square wave, saw tooth wave		Spectrum mode: - Frequency at peak, amplitude at peak, THD dB, SNR - SINAD, SFDR, total power, average amplitude at peak Mask limit testing : Mask generation/Numeric or
Realtime Control	OS : Windows 10 / Android Iollipop 5.1.1		Graphical) SDK/API :
Laboratory	CPU : Intel Atom Bay Trail /Quad core/1.33Ghz RAM : DDR 2GB In Memory : 32GB Out Memory : Maximum 128GB support LCD : 10.1inch IPS screen Resolution : 1280 x 800 Touch panel : 10points Capacitive multi-touch screen		- 52 and 64bit drivers for Windows 7,8 and 10 - Linux drivers, mac OS X drivers Example code : - C, C#, Excel VBA, VB.NET, LabVIEW, MATLAB
Input Power	AC 220V, 50/60Hz		







Training Platform						SERIAL DATA TRANSMISSONS	
							COMMUNICATIONS TRANSMISSION LINES
			DC-DC CIRCUIT #2		ELECTRIC VEHICLE	FIBER OPTIC COMMUNICATIONS	
			SIGNAL CONVERTER	DC-DC CIRCUIT #1		HYBRID VEHICLE	DIGITAL COMMUNICATIONS 4
TRANSFORMER		OSCILLATOR	COMBINATION LOGI C	AC PHASE CONTROL LER		VEHICLE DISPLAYS	DIGITAL COMMUNICATIONS 3
AC CIRCUIT	TRANSISTOR AMPL IFIER	POWER SUPPLY	SEQUENTIAL LOGIC	SINGLE PHASE INVE RTER		ENGINE CONTROL	DIGITAL COMMUNICATIONS 2
MEASUREMENT CIRC UIT	SEMICONDUCTOR #2	ACTIVE FILTER	DIGITAL LOGIC	PHASE CONTROL RE CTIFIER	MICRO PROCESSOR	IGNITION SYSTEMS	DIGITAL COMMUNICATIONS 1
DC CIRCUIT	SEMICONDUCTOR #1	OP AMPLIFIER	PULSE CIRCUIT	SWITCHING IC & REC TIFIER	ARDUINO	AUTO ELECTRICS	ANALOG COMMUNICATIONS
Electronic Circuit	Electronic Circuit Application I	Electronic Circuit Application I	Logic Circuit	Power Electronics Training Module	Programming Training Module	Automotive	Telecommunication
Electric & Electronic Training Module						Training Module	
UNIVERSAL ENGINEERING PLATRORM							

### YES ()

#### Available Training Module for ELECTRIC & ELECTRONIC





#### Available Training Module for ELECTRIC & ELECTRONIC

TRANSISTOR AMPLIFIER MODEL NAME : YESA-7107	[ Topic covered included ] Exp.1. AMPLIFIER BIASING Exp.2. COMPLEMENTARY AMPLIFIER Exp.3. COMMON EMITTER AMPLIFIER Exp.4. DIFFERENTIAL AMPLIFIER Exp.5 Transistor amplifier test Exp.6 Sequential amplifier circuit practice with multiple transistors Exp.7 Experiment on various transistor * Including • Practice theory manual • CAI Software	POWER SUPPLY MODEL NAME : YESA-7110	[ Topic covered included ] Exp.1. FIXED VOLTAGE REGULATOR(DIODE) Exp.2. VARIABLE VOLTAGE Exp.3. VARIABLE VOLTAGE REGULATOR (OPAMP) Exp.4 Bridge Rectifier Exp.5 Experiment on Half, Full Bridge Rectifier Exp.6 Combining Transistor and OP-Amp * Including • Practice theory manual • CAI Software
<section-header></section-header>	[ Topic covered included ] Exp.1. INVERTING AMPLIFIER Exp.2. NON-INVERTING AMPLIFIER Exp.3. DC OFFSET AMPLIFIER Exp.4. DIFFERENTIAL AMPLIFIER Exp.5. SUMMING AMPLIFIER Exp.5 Experiment on feedback of amplifier Exp.6 Experiment on Combination amplifier * Including • Practice theory manual • CAI Software	OSCILLATOR MODEL NAME : YESA-7111	[ Topic covered included ] Exp.1. PHASE SHIFT OSC. Exp.2. CRYSTAL OSC. Exp.3. TIMER IC OSC. Exp.4. COLPITTS OSC. Exp.5. HARTLEY OSC. Exp.6 Colpitts, Hartley OSC. Output Exp.7 Practice output values for each OSC Exp.8 Experiment of Oscillator application * Including • Practice theory manual • CAI Software
ACTIVE FILTER MODEL NAME : YESA-7109	[ Topic covered included ] Exp.1. LOW PASS FILTER Exp.2. HIGH PASS FILTER Exp.3. BAND PASS FILTER Exp.4 Experiment on R,L,C Filter comparison Exp.5 Multi Pass Filter Exp.6 Experiment of Filter application * Including • Practice theory manual • CAI Software	PULSE Circuit   MODEL NAME : YESA-7112   Image: Construction of the state of th	[ Topic covered included ] Exp.1. CLIPPING, CLAMPING Exp.2. SCHMITT TRIGGER Circuit-3. BISTABLE MULTIVIBRATOR Exp.4. MONOSTABLE MULTIVIBRATOR Exp.5 Comparing output values for BISTABLE and MONOSTABLE Multivibrator Exp.6 Experiment of Pulse application Exp.7 Combination Trigger Circuit * Including • Practice theory manual • CAI Software



#### Available Training Module for ELECTRIC & ELECTRONIC

DIGITAL LOGIC MODEL NAME : YESA-7113	[ Topic covered included ] Exp.1. DIODE LOGIC Exp.2. AND/NAND GATE Exp.3. OR/XOR GATE Exp.4. INVERTER Exp.5 Digital output signal comparison exercise through switch control Exp.6 Comparing output signal Exp.7 Practice of Inverter circuit using Transistor and IC * Including • Practice theory manual • CAI Software	SIGNAL CONVERTER MODEL NAME : YESA-7116	[ Topic covered included ] Exp.1. A/D CONVERTER Exp.2. D/A CONVERTER Exp.3. F/V CONVERTER Exp.4. V/F CONVERTER Exp.5 ADC merging circuit Exp.6 F / V <-> V / F comparison circuit Exp.7 Converter circuit principle * Including • Practice theory manual • CAI Software
SEQUENTIAL LOGIC MODEL NAME : YESA-7114	[ Topic covered included ] Exp.1. RS FLIP-FLOP Exp.2. JK FLIP-FLOP Exp.3. BINARY COUNTER Exp.4. SHIFT REGISTER Exp.5 RS, JK Flip-Flop Output Comparison Exp.6 Experiment of Shift Resistor application * Including • Practice theory manual • CAI Software	DC Network Theorems DOBLE NAME : YESA-7112	[ Topic covered included ] Exp.1. Superposition Exp.2. Thevenin circuits Exp.3. Network circuits Exp.4. Thevenize a bridge circuit Exp.5 Thevenin/Norton conversion * Including • Practice theory manual • CAI Software
COMBINATION LOGIC MODEL NAME : YESA-7115	[ Topic covered included ] Exp.1. DECODER Exp.2. ENCODER Exp.3. MULTIPLEXER/DEMULTIPLEXER Exp.4. ADDER/SUBTRACTER Exp.5 Encoder and decoder merging Exp.6 Signal control * Including • Practice theory manual • CAI Software		

YES

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#### Available Training Module for ELECTRIC & ELECTRONIC



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#### Available Training Module for ELECTRIC & ELECTRONIC



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#### Available Training Module for ELECTRIC & ELECTRONIC















#### Available Training Module for Telecommunication Training Module





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#### Available Training Module for Telecommunication Training Module



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### YES01 work for customer's happy life

### Thank you for your attention



YES01, Youngil Education System 7-34, Gwonyul-ro 1253beon-gil, Baekseok-eup, Yangju-si, Gyeonggi-do, South Korea TEL : +82-2-2024-0077 FAX : +82-2-2024-0070 E-Mail : sales@yes01.co.kr http://www.yes01.co.kr/en http://www.yes01.co.kr/sp

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