Yelo Testpoint
Low Cost Range of Functional Testers

www.yelo.co.uk

Yelo Testpoint is an extremely modular and flexible system, allowing you to scale to any size operation, and to add almost any new test requirements. Ideally suited to cellular manufacturing, the system can be used to complement an existing ATE, as a functional test add-on, or as a diagnostic work station. Its compact, space-saving construction has multiple interface positions to accommodate both horizontal and vertical connections.

Yelo provides a full range of test cards as well as extensive software tools, simplifying ease of operation. Yelo software supports many standard telecom applications including acoustic, telephone, and modem testing.

Features

- Up to 15 user slots
- Optional central measurement system
- Bed of nails fixture interface
- Built-in power supplies
- Optional vacuum ports
- Menu system
- Operator keypad

Benefits

- Use one instrument for diverse types of test
- Extremely modular and flexible, ideal for cellular manufacturing
- Compact, space-saving construction

THE YELO TESTPOINT SYSTEM COMBINES TRADITIONAL BED OF NAILS IN-CIRCUIT TESTING (ICT) WITH FUNCTIONAL TESTING ON A SINGLE BENCH-TOP STATION. HIGHLY VERSATILE AND COST-EFFECTIVE, IT IS USED FOR A WIDE RANGE OF TESTING ON BOARDS, SUB-ASSEMBLIES, AND FINAL PRODUCTS.

System Range

There are several options within the yelo test system range, each optimized for different test needs and with feature variations.

Yelo 50 is intended for specialized activities where a dedicated application requires only minimal test, but where the full software capabilities of an automated test system are a must.

Yelo 125 is ideal for functional and in-circuit test applications with low node counts. This fully scaleable model is the ideal basis of a telephone or modem test system.

Yelo 7130 is the workhorse of the Yelo system range. With its 15 user slots, it provides the raw power needed for flexible testing of over 600 nodes.

Yelo 7130B offers the same functions as Yelo 7130, but is designed to be either rear or front-mounted into a rack system.

Yelo 7150 is used where higher power is required.

Model	Number of user slots	Other slots PSU/control/ measure	Bed of nails fixture interface	Vacuum ports	Built-in power supplies	Yelo cabinet
Yelo 7150	15	2	Std	Optional	Extended	9U Cabinet
Yelo 7130	15	2	Std	Optional	Std	9U Cabinet
Yelo 7130R	15	2	Std	No	Std	Rack Mount
Yelo 7130B	15	2	Std	No	Std	Space Saving Bench
Yelo 125	4	2	Std	No	Std	6U Cabinet
Yelo 50	2	1	No	No	Std	3U half width

	Yelo® 100 compatible	Central measurement system	Operator keypad	Program in C or F Point	Yelo menu system	Standard Power Supplies
All models	Yes	Optional	Optional	Yes	Yes	Yes 5, ± 12, ± 15 volts (except Yelo 50)

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Test Cards

A full range of yelo® test cards are available for a variety of voltage, timing measurement, signal generation, and channel requirements.

System Power Supply
- 5 fixed power supplies with voltage and current readback

DVM/I-C Card
- In-circuit/analog measurements including 10 direct channels

Multifunction Card
- Voltmeter, signal generator, timing/ frequency measurement, 16 analog channels, 16 digital channels

System/Functional Card
- Central test system: voltage, timing measurement and signal generation

Telecommunications Card
- Full telecom testing, 2 exchange lines, 2 extension phones, multiple country features, full dialling, battery simulator

PCM Card
- PCM generation, receiving, and analysis

CLI Card
- Caller line identification

Relay Card 16
- 16 changeover relays Programmable Load Card
- 8 channels of selectable components

AMUX Card
- 32 analog test and measurement channels (6 active at once)

DMUX Card
- 32 universal test, measurement and digital input/output channels

EMUX Card
- 48 analog test and measurement channels (4 active at once)

TMUX Card
- 48 analog test and measurement channels (2 active at once)

RMUX Card
- 32 analog test and measurement channels (2 active at once)

SMUX Card
- 16 analog test and measurement channels (2 active at once)

DRMUX
- 32 digital lines, 32 analog channels (2 active at once)

Signal Generator/TC Card
- 3 generators (1 function), frequency/ timing measurement system

Timer Counter Card
- Frequency/timing measurement system

Mains Simulator Card
- Simulated mains of variable frequency and voltage

Solenoid Driver Card
- 32 dual-drive solenoid outputs

Continuity Card
- 128 shorts, opens test lines with limited in-circuit testing

Variable Power Supply Card
- 3 programmable power supplies

User Prototype Card
- Available for customized circuitry

MAO Card
- 8 programmable current/voltage sources

PSU Conversion Card
- Allows use of VPSU in smaller Yelo systems

Applications

FUNCTIONAL TESTING

For applications where a bed of nails is either impractical, or where volumes are too low to justify it, Yelo can be used for edge connector functional testing. In this case, the link between the Unit Under Test (UUT) and the product edge connectors is made via a set of cables. Plug-in card fixtures can also be provided for this kind of testing.

To enhance diagnostic information, the operator can be prompted and guided to probe by hand. Averna can provide you with a large library of common tests for this guided probing, which includes visual pot setting aids.

PCB-LEVEL TESTING

One major benefit of the Yelo system range is the tight combination of in-circuit and functional tests. This allows for both types of testing to be combined without requiring large numbers of cards in the system. This also allows for flexible test strategies: you will be able to adjust the percentages of in-circuit and functional tests performed on the boards, with minimal reconfiguration.

COMMUNICATIONS TESTING

The Yelo system is used by many companies as a communications test system. By simply adding the Telecommunications Test Card, you have the capability to test phones, modems, and many other line-based products. Further cards provide pulse code modulation, caller line identification, and PBX test functions.

Using the PCM Card, you can use the Yelo system to test digitally-based products. This will help you simulate the signalling on the internal side of many Private Branch Exchange (PBX) systems, and it will enable cost-effective testing of terminals, phones features, and the PBXs themselves.

Communications testing can be combined with bed of nails testing as part of a single fixture test strategy.

TESTING ASSEMBLED PRODUCTS

The Yelo system is an extremely cost-effective platform for automated testing of finished products. For high-volume production, Yelo can be used to automate the end-of-line testing on cased, finished products.

Yelo performs sophisticated, automatic switch, button, and LED display testing, handling a phone as an operator would.