



# Victoria Combo Platform

Tailored Test Solution for Next Generation Networks

## General

- Modular structure
- Basic architecture: Front module with or without display, Application Module/Modules (not included), Rear Module
- Maximum number of modules: 3
- User-removable modules
- Multi-position desk leg
- Rubber-protected corners for Front and Rear Modules
- Removable multi-use strap for handling and transport
- Optional security lock cable available
- Display: 10.4" TFT colour touchscreen with SVGA resolution (800 x 600 pixels)

## Dimensions

- Front Module dimensions (w x h x d): 270 x 220 x 34.3 mm
- Rear Module dimensions (w x h x d): 270 x 220 x 28.1 mm
- Front Module weight (no battery pack): 1,6 kg
- Rear Module Weight (no battery pack): 0,9 kg
- Battery pack weight: 0,3 kg

## Connectors

- USB host: 2 x USB port for mouse and keyboard
- 10BASE-T: RJ-45 connector for LAN
- USB peripheral: USB port for future applications
- Stereo IN: Stereo input for future applications
- Stereo OUT: Stereo output for future applications
- Ref. IN: BNC connector for reference clock input
- Ref. OUT: BNC connector for reference clock output
- RS-232C: DB9 connector for serial RS-232C interface
- Audio IN/OUT: Audio input/output for external headset (future applications)
- External 18VDC power input: adapter/charger (mains connection)

## Reference Clock

### Reference Clock Input (Ref. IN connector)

- Coded signals: E1 (0 dB), E1(-20 dB), T1 (0 dB), T1 (-20 dB). Line attenuation compensation up to 6 dB
- Clock signals: 1544 kHz, 2048 kHz, any clock signal from 64 kHz to 10 MHz multiple of 8 kHz; Level: 0.5 to 2.5 Vpp

### Reference Clock Output (Ref. OUT Connector)

- User-selectable: 1544 kHz or 2048 kHz
- Level: 2.5 Vpp on 75 Ohm

## Slots

- Two Compact Flash slots, type 2
- One expansion slot for future applications

## Audio

- Built-in microphone for future applications
- Built-in speaker

## LEDs

### Front Panel

- ON: the tester is switched on
- DC: DC power supply from the adapter/charger connected to the mains
- BATT: Battery power supply
- LAN: LAN activity

### Side Panel

- LK: LAN detected
- PW: Power

## Graphical User Interface

- Window-based
- A set of windows for each installed application module

## Remote control

- Software application and TCP/IP connection using the RJ-45 10BASE-T connector
- Remote GUI identical to the local GUI

## Files/Export

- Reports: Printed to a file or external serial printer ASCII plain text or CSV
- Results: displayed on screen as histograms and time graphs
- Configurations: for automatic configuration

- Screenshots: JPEG files
- File transfer from Victoria Combo to a computer by using a standard browser and a TCP/IP connection
- File transfer from the tester's internal memory to a Compact Flash memory card
- File transfer from an external Compact Flash memory card to the internal memory of Victoria Combo

- Battery type: 4.1 Ah, 14.8V Lithium-Ion (Li-Ion); one or two battery packs
- Two battery compartments: one in the Front Module, another one in the Rear Module for extended operating time or battery replacement when the tester is on
- Battery life: depending on the type and number of modules (typical: 1 to 2 hours with one battery pack and one SDH/SONET 10G module)

## Connectivity

- Ethernet (via RJ-45 10BASE-T connector)
- Serial RS-232C port for a printer

## Internal browser

- Application: Online user guide

## Software Upgrade

- Via Compact Flash memory card
- Software can be downloaded from Trend Communications' website

## Touchscreen lock

- User-programmable: configuration or full lock
- Configuration: Any change is locked by password
- Full lock: Any change in configuration, start/stop button or event insertion is locked by password

## Switch-Off modes

- Standard: Switch to OFF state; next switch-off forces the SW boot process
- Sleep mode: Switch to low-consumption state; immediate switch-on

## External Power Supply

- By means of an AC adapter/charger connected to the mains
- Input voltage: 100-240 VAC, 47-63 Hz
- Output voltage: 18 VDC, 7.22A max.

## Battery Power Supply

- User-replaceable batteries
- Battery charging time (1 or 2 packs): from 2 hours (85% charge) to 3 hours (98% charge)

## Safety

- Electrical safety: EN60950

## Electromagnetic Compatibility

- Radiated EMI: EN55022
- Immunity to EMI:
  - EN61000-3-2
  - EN61000-3-3
  - EN61000-4-3
  - EN61000-4-4
  - EN61000-4-5
  - EN61000-4-6
  - EN61000-4-11
- ESD: EN61000-4-2

## Environmental Conditions

### Storage Temperature Range

- -25 to +70 °C (ETS 300 019-2-1)

### Working Temperature Range

- 0 to +40 °C in normal conditions, up to +45 °C in exceptional conditions (ETS 300 019-2-7)

### Transport Temperature Range

- -25 to +40 °C (ETS 300 019-2-2) (with rigid case)

### Relative Humidity

- 5 to 90% (without condensation)

## Patent

- U.S. Patent No. 7.302.361

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