The DTA-SDH/155 transmission analyzer is a palm, graphic, color-LCD SDH/PDH measuring instrument designed for field use in analysis and maintenance of STM-1 (155Mbps) and E1 (2.048 Mbps) lines. The DTA-SDH/155 has optic and electric port, evaluate and analysis result according to ITU-T G.821, G.826, G.828, G.829, M.2100, M.2101. Its easy operation, light weight, long working hours, low price, may be the ideal solution for field work.

**Functional feature**
- For the analysis and evaluation of SDH and PDH networks and equipment up to 155Mbps.
- Tandem Connection Monitoring (TCM) and APS tests.
- Support pointer adjustment test.
- Automatic Protection Switching (APS).
- Round trip delay measurement (STM-1 and E1).
- Scan VC4, VC3, VC12 tributary signals.
- Update through USB.
- Operate by Key-press or touch-screen.

**Specification**
- Electric port: unbalance, ITU-T G.703.
- Optic port: SFP (1310, 1550), ITU-T G.957.
- Support Frequency offset ±99 ppm, step:1ppm.
- Clock source: internal, external and recovery.
- PRBS: 2n-1(n=9,11,15,20,23), all "1", all "0".
- Customer can edit inserting and analyzing overhead.
  - SOH: J0, B1, B2, E1, E2, F1, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, S1, M1
  - POH: J1, B3, C2, G1, F2, H4, F3, K3, N1, V5, J2, N2, K4
- Pointer sequence adjustment according to ITU-T G.783.
- Monitor alarm and performance according to ITU-T G.783, G.958.
- SDH: LOS, AIS, OOF, EFAS, LOF, RS/HP/LP TIM, MS/ AU/TU AIS, MS/HP/LP RDI, AU/TU LOP, HP/LP UNQ, TU LOM, HP/LP PLM, RFI MS-/HP-/LP-FERF
- PDH: LOF, RAI, CRCL, MAIS, CASL, MRAI.
- TCM: UNQ, LTC, RDI, ODI, TIM, AIS.
- From D1-D3, D4-D12, E1, E2, F1 transparent channel, insert/pick-up PRBS.
- ITU-T mappings for SDH, including the concatenated ones.
**Test Mode:**
- SDH Path Mode
- SDH Demux Mode
- SDH Mux Mode
- SDH Monitor Mode
- SDH Through Mode
- PDH Path Mode
- PDH Monitor Mode
- PDH Through Mode

**General**
- Dimension: 240mm(L)*155mm(W)*77mm(H)
- Weight: 2Kg
- Power Supply: Input: 176-265VAC, 47-63Hz
  - Output: 9VDC 4A
- Operating Temperature: 0° C ~ 40° C
- Storage Temperature: -20° C ~ 60° C
- Relative Humidity: 0 to 95%(non-condensing)

**Physical Characteristics**
(1) Fastening metal buckle of the belt;
(2) Foursquare rubber protection cushion;
(3) Color LCD screen;
(4) LED pointer light;
(5) Keypad: keys can be used for operation in case of the failure of touch screen.
(1) Electrical adapter port;
(2) BNC input joint for external clock;
(3) Standard USB port;
(4) BNC joint of output port;
(5) BNC joint of input port;
(6) SFP port for optical input/output.

Application

DTA-SDH/155 SDH/PDH Transmission Analyser
# Configuration

<table>
<thead>
<tr>
<th>Ref</th>
<th>Item</th>
<th>Product name</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>Main machine</td>
<td>155M meter (including Li-battery)</td>
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<td>Instrument handle tape</td>
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<td>2</td>
<td>Instrument handle tape</td>
<td>Fiber LC-FC (1M)</td>
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<td>4</td>
<td>USB interface cable (straight-through cable 1M)</td>
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<td>5</td>
<td>BNC cable (Q9 1M)</td>
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<td>220V-13.8V/3.5A power adapter</td>
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