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# Portable ISDB-T DTV Analyzer

Model: Tango-IS



## Standard

- ◆ ISDB-T/T<sub>B</sub>: ARIB STB-B31 and TR-B14

## RF Input

- ◆ 1×RF input-BNC-50Ω
- ◆ Input Sensitivity:-95dBm ±3dB
- ◆ Input Frequency: 170 - 230MHz and 470 - 862MHz
- ◆ Bandwidth: 6MHz

## TS Input

- ◆ 1×TS input, BNC female-50Ω
- ◆ Data Format: 188/188+8(+8)/204 bytes
- ◆ Burst or Packet mode,
- ◆ Bit Rate: 50Mbps max

## Demodulation

- ◆ Support Two Inputs: RF and TS
- ◆ Real-time demodulation and measurement process
- ◆ ISDB-T/TB special features:
  - TMCC Monitoring
  - MER Measurement per Layer

## RF Measurement

- ◆ Full band input level: -50dBm to -10dBm
- ◆ Channel Input level: -90dBm to -30dBm
- ◆ MER: up to 36 dB ±1dB
- ◆ Shoulders: > 44 dB
- ◆ SNR, BER, PER

- ◆ Carrier Frequency Offset
- ◆ Measurement Display
  - Constellation per layer
  - Signal Spectrum
  - Channel Impulse Response
- ◆ Monitoring Display
  - SFN Windows
  - Signal Power Bar Graph
  - Recovery Transmission Modes

## TS Measurement

- ◆ Stream management
- ◆ MPEG-TS Figures: TS\_Sync, Continuity\_count\_error, PCR jitter, PCR repetition and PTS difference
- ◆ TS/ IP data rate

## TS Output

- ◆ TS output via ASI port, BNC female connector
- ◆ TS streaming over IP output, RJ-45 connector

## Control port

- ◆ Serial control protocol via RS-232/-485
- ◆ TCP/IP control interface Via Ethernet

## Physical

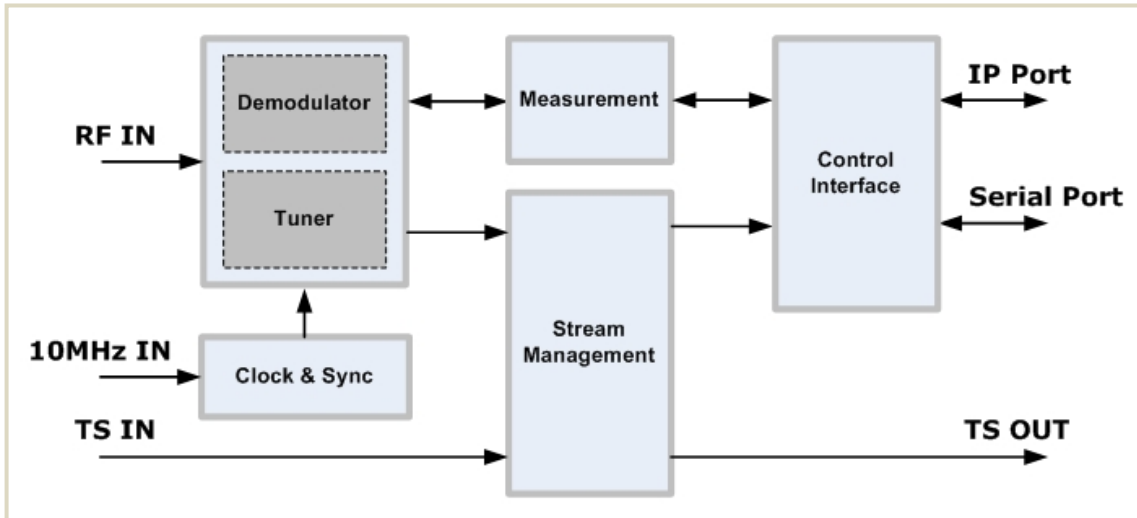
- ◆ Supply voltage: AC 220V-DC 12V Adapter, 15W
- ◆ Aluminium package (224X378X266mm)
- ◆ Operating temperature range :0 °C to 50 °C

Rev. Tango-IS-A

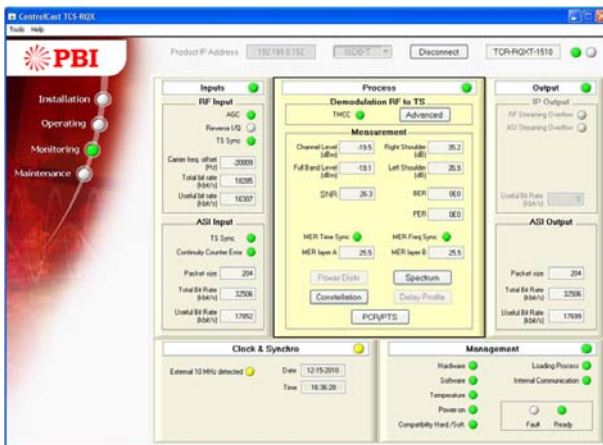
**Address:** A1-1F, Jingjiang Office Building, No.35, Bagou South Road, Hai Dian, Beijing 100089, China  
**Tel:** (8610) 6261 4283/85/86, **Email:** support@dh-tv.com

[www.dh-tv.com](http://www.dh-tv.com)

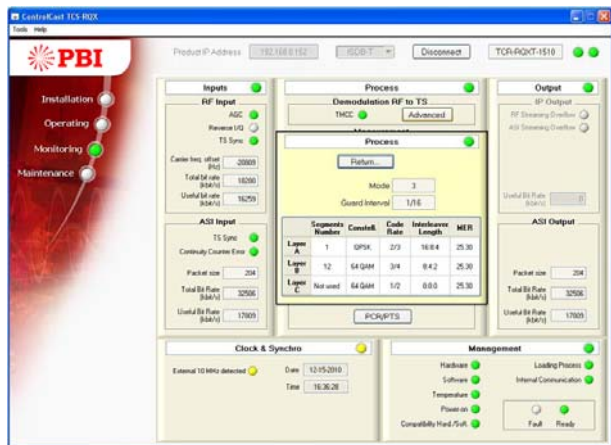
## Block Diagram:



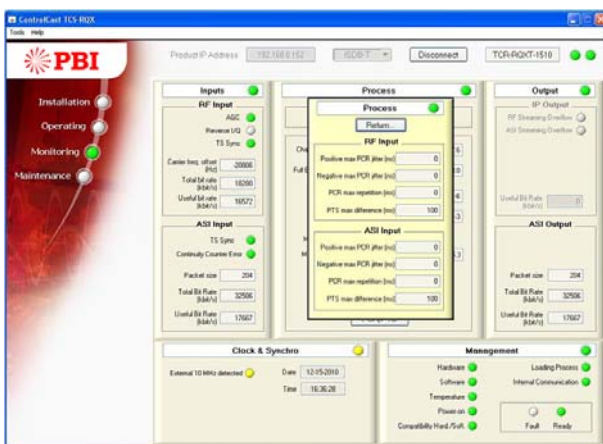
## Configuration and Monitoring Screen:



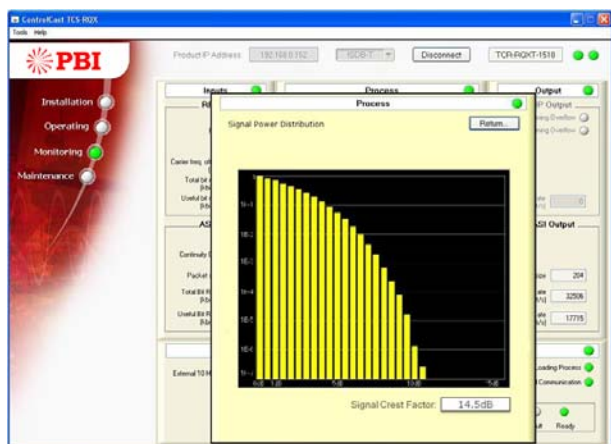
General Monitoring



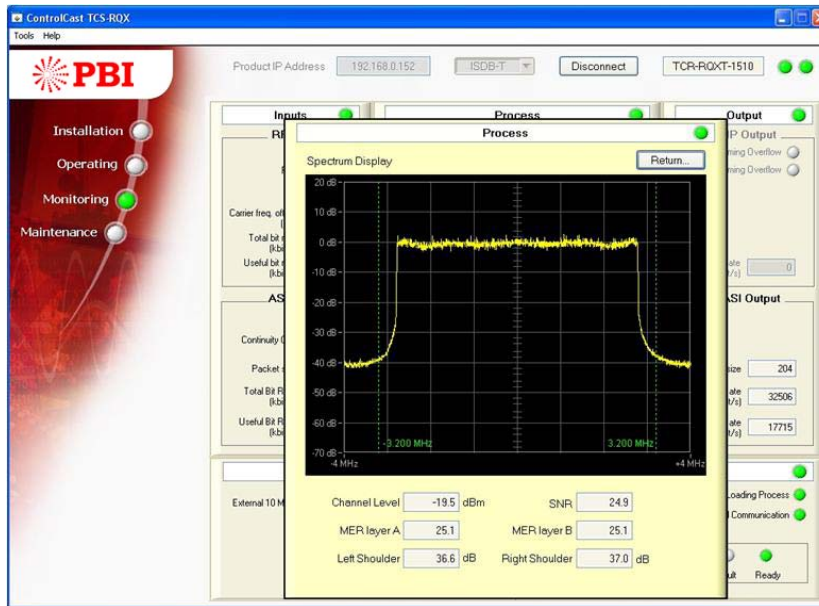
Advanced Monitoring



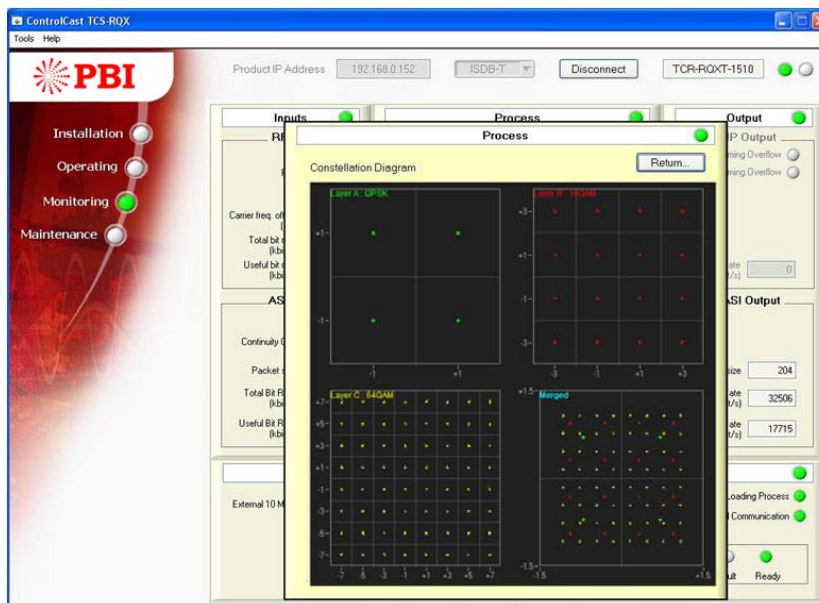
PCR/PTS Monitoring



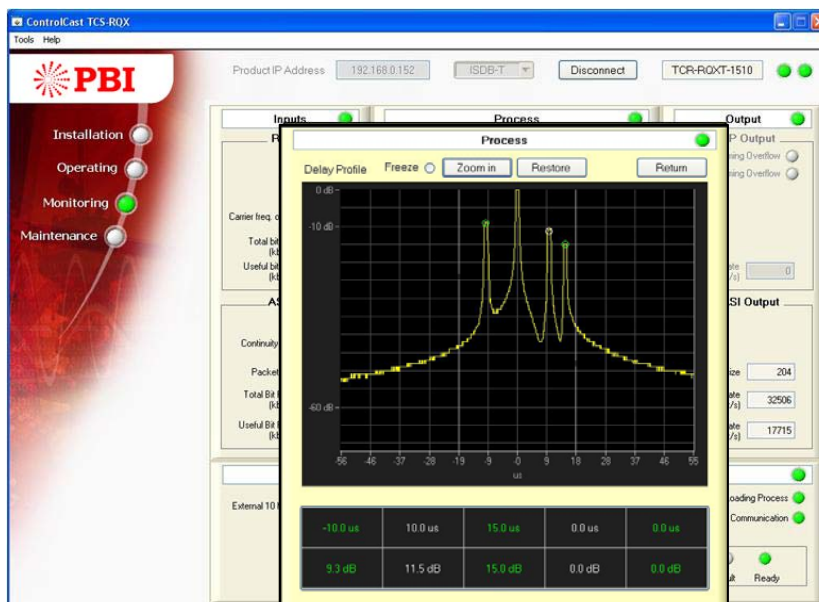
Power Distribution Monitoring



**Spectrum Analyzer**



**Constellation Per Layer**



**Delay Profile**