

# QoS-1000

## RF Layer Monitoring Receiver

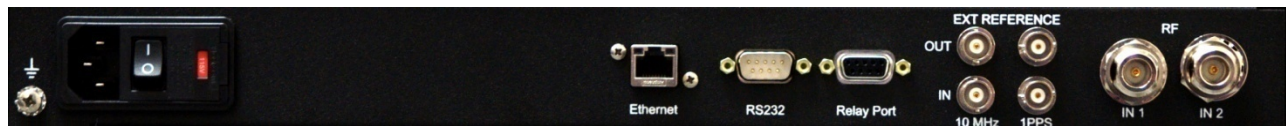
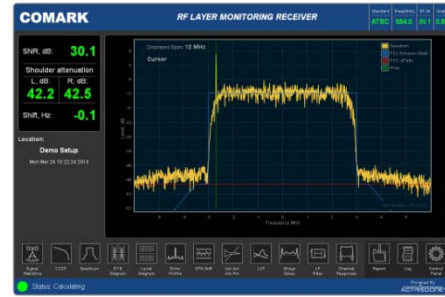
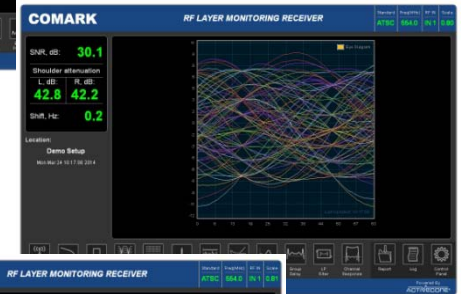
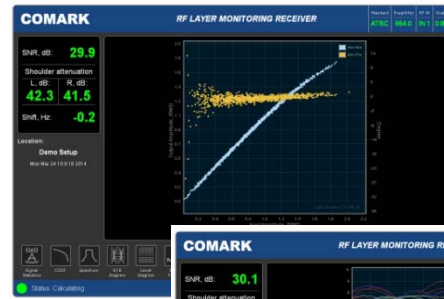
The **QoS-1000** is an extremely cost effective solution for Quality of Service (QoS) monitoring of any transmitter RF output.

Hitachi-Comark provides high performance and award winning television transmitters that are backed by more than 40 years of leadership in broadcast technologies.

The **QoS-1000** allows engineers to cost-effectively monitor the digital transmitter system performance of any transmitter or repeater site. The **QoS-1000** utilizes a 1RU chassis and accepts an RF sample signal; the unit is powered via standard 110-250VAC, 50/60Hz line voltage. It's ideally suited for remote monitoring applications of a transmitter system or can even be used as a stand-alone unit during design verification and production tests.

Using high precision demodulation and signal processing, the **QoS-1000** analyzes the RF signal and provides near-real time user metrics including Symbol and Constellation diagrams as well as RF spectrum, RF shoulders, MER/SNR, and frequency response / group delay. The **QoS-1000** includes an event and alarm log with user defined parameters and thresholds.

**QoS-1000** has a built-in web server that hosts user-friendly Graphical User Interface (GUI) providing a window into the heart of the RF signal. Local or remote interface to the unit is via a built-in Ethernet port. The **QoS-1000** is available in multiple versions to support ATSC, DVB-T, or ISDB-T worldwide DTV standards.



QoS-1000 ~ Rear Panel View

### KEY FEATURES

- ▶ User-friendly GUI displays:
  - ✓ RF Spectrum / FCC Mask
  - ✓ Constellation and Eye diagrams
  - ✓ Frequency resp. / Group delay
  - ✓ IMD & SNR versus time
- ▶ Simple to use; cost effective alternative to test equipment
- ▶ -20dBm nominal input level, via type N female connector
- ▶ Ethernet local / remote monitoring
- ▶ VHF/UHF compatible, with 10Hz tuning steps
- ▶ ≥ 50MHz analyzed bandwidth
- ▶ Dry loop contacts via DB-9
- ▶ 0 – 50 degrees C temp. range

### ORDERING INFORMATION

Please contact your authorized Hitachi-Comark representative.  
 US Sales 1-800-288-8364 or 413-998-1100  
 Hitachi Kokusai Electric Comark LLC  
 104 Feeding Hills Road  
 Southwick, MA 01077

- QoS-1000ATSC → RF Rx/Mon, System ATSC
- QoS-1000DVB → RF Rx/Mon, System DVB-T
- QoS-1000ISDB → RF Rx/Mon, System ISDB-T

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