

# BTC150

## BTC150 Fiber Coupled TE Cooled 16 Bit TCP/IP CCD Spectrometer



BTC150 series products are low cost and high performance TE cooled linear CCD spectrometers. They are equipped with 2048 elements thermoelectric cooled (TEC) linear CCD arrays, built-in 16 bit digitizers with high speed Ethernet (TCP/IP) interface and optimized high throughput spectrographs. The BTC150 products offer much higher dynamic range, greatly reduced dark counts and superior long term operation stability, thus are ideal for low light level detections and long term monitoring applications. A unique integration time multiplier function is supported for 15 minutes or longer integration period to take the advantage of low dark counts in light starving applications. The plug and play Ethernet interface makes the BTC150 products suitable for remote and wireless measurement applications.

### Highlights

- *OEM and end user versions available*
- *UV, Vis, NIR and custom configured ranges*
- *TEC cooled high stability and low dark counts*
- *Built-in 16 bit digitizer*
- *High performance to cost ratio*
- *0.3 to 20nm resolution versions available*
- *Plug and play Ethernet (TCP/IP) interface*
- *Up to over 100 complete spectra/s transferring speed*
- *5 - >65,535 ms integration time range*
- *Time multiplier (extended integration time) support*
- *Custom configurations and application support*

### Applications

- *Remote and wireless spectroscopic measurements*
- *UV, Vis and NIR spectroscopy*
- *Raman and fluorescence spectroscopy*
- *OEM building blocks*
- *Color measurement and monitoring*
- *On-line optical inspection and monitoring*



19 Shea Way, Newark, DE 19713, USA · Web: [www.bwtek.com](http://www.bwtek.com)  
Tel: (302) 368-7824 · Fax: (302) 368-7830 · E-mail: [info@bwtek.com](mailto:info@bwtek.com)

