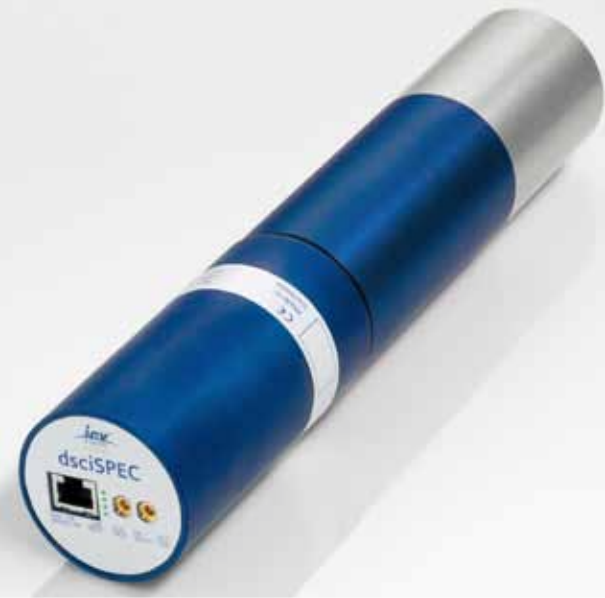


dsciSPEC

DIGITAL GAMMA SPECTROMETER
WITH ETHERNET INTERFACE

The dsciSPEC is a high performance, digital, gamma spectrometer contained in a 14-pin tube base. It provides high voltage, digital signal processing and MCA functions. Power, communications and control are provided through an Ethernet RJ-45 connection. The novel Power over Ethernet (PoE) interface provides greater speed, flexibility and conductivity than an USB connection. The dsciSPEC provides real time and live time measurements, various presets and multiple spectra storage. It contains large spectrum memory as well as a battery powered real time clock synchronized through the IP time protocol.



FEATURES

- Complete gamma spectrometer based on Digital Signal Processing (DSP) in a 14-pin tube base
- Versions for NaI(Tl) and LaBr₃(Ce) scintillation detectors available
- Integrated RJ-45 Ethernet interface providing advantages of high throughput (100 Mbit), standard cables & connectors, and long cable lengths
- Ideal for remote applications or large area environmental monitoring networks
- Operates on Power over Ethernet (PoE)

SPECIFICATIONS

PHYSICAL AND ELECTRICAL DIMENSIONS

Device:	DSP-based MCA with detector HVPS (200 V-1250 V)
Material:	Aluminium
Dimensions:	Ø 63 x 117 mm (Ø 2.5" x 4.6") without detector
Display :	4 LED's (Pink, Traffic, Link, 10/100 MBit)
Input Power:	PoE compliant to 802.3af, 48V, < 100 mA; Supplied via provided PoE adapter or customer PoE equipped hub
Weight:	270 g (0.6 lbs)

SPECTRUM PARAMETERS

Functions:	PHA, pulse-height analysis (Standard), MPHA, multi input pulse-height analysis
Spectrum:	1024 Channels
Presets:	Real Time, Live Time, Counts, Start
Data:	32 Bit

ENVIRONMENTAL

Temperature:	-15 to 50 °C (5 to 122 °F)
Humidity:	Up to 80 %, non condensing

DATA PROCESSING UNIT

Processor:	32 Bit RISC, 66 MHz, Embedded UC Linux, Motorola Coldfire®
Transfer protocol:	XML
Protocols:	IP-Family, ARP, TCP, ICMP, UDP, Telnet, FTP
Memory:	16 MB SD-RAM, 8 MB FLASH
Operating system:	Embedded Linux

CONNECTORS

Network:	RJ-45 IP IEEE B335, PoE adapter included
Input:	Externally triggered Start/Stop, MCX HF-Socket

SOFTWARE

winTMCA:	Includes basic spectroscopy software
winTMCApro:	Gamma analysis software (optional)
Option:	ActiveX component

Complete specifications available on request.



VARIANTS

Following variations of this device are available. Specifications differing for the variants are marked in the table.

*1 dsciSPEC for NaI(Tl) detectors

*2 dsciSPEC-L for LaBr₃(Ce) detectors

For situations not covered by these variants please contact our Marketing and Sales Department at the email address or phone number listed below.

Sales Europe, Asia, Africa and Oceania
FLIR Radiation GmbH
Piepersberg 12
42653 Solingen, Germany
T + 49 212 222090
F + 49 212 201045

Sales North and South America
ICx Radiation
100 Midland Road
Oak Ridge, TN 37830, USA
T + 1.865.220.8700
F + 1.865.220.7181

www.flir-radiation.com

