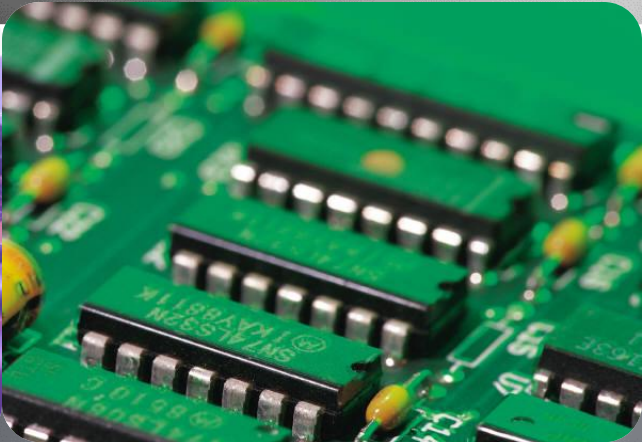
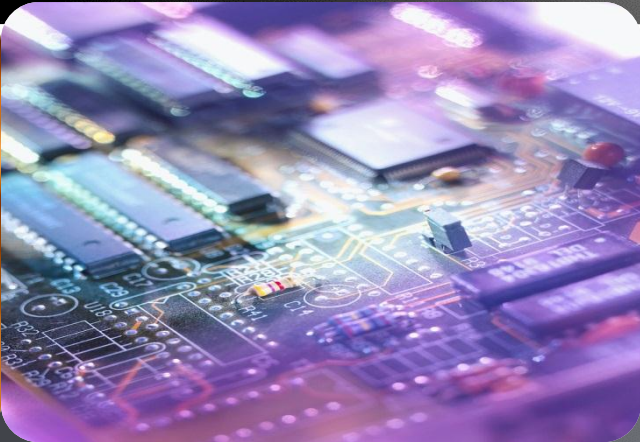
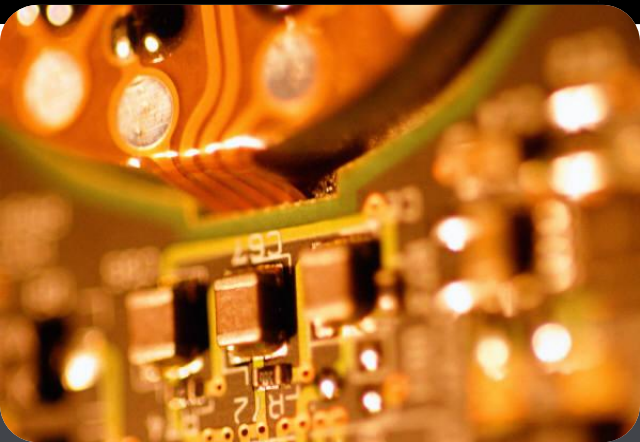


SPECTRUM Rep Company

*Low-cost, High-quality
Technology Solutions*

sales@spectrumrep.com

(805) 288-6180



SPECTRUM is Your Solution

Spectrum Rep provides low-cost, high-quality *solutions* for the Consumer Product, Toy, Medical, Military, Safety and Security Industries:

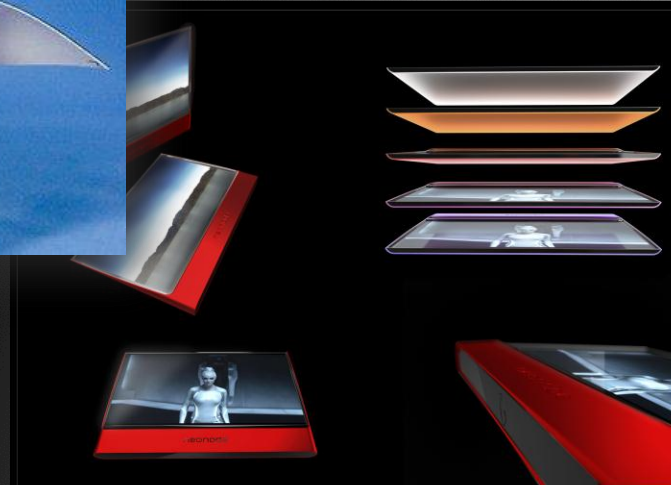
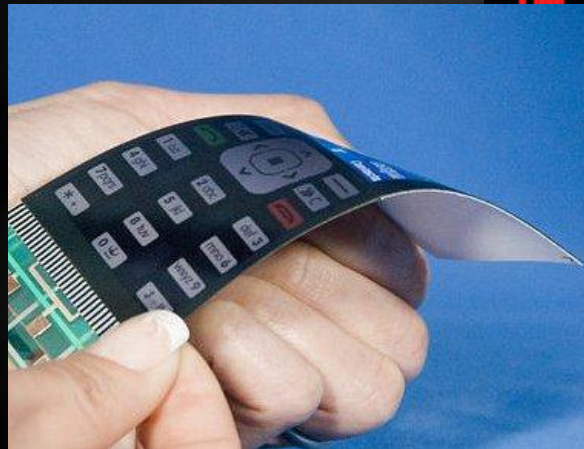
- Displays
- Audio
- Sensors
- Optical
- USB
- Wireless Technology
- Flash Memory
- Batteries
- Printed/Paper Electronics



SPECTRUM Technology

Displays

- GDV and GDF Displays
- 8 bit Tamagochi B/W HTN/STN/FSTN LCD
- 16 bit/32 bit handheld CSTN/TFT LCD
- Microdisplay (3D)
- Flexible Displays
- Light-up Color Displays
- 3D TFT LCD
- Augmented Reality
- TV-based Anaglyph 3D



SPECTRUM Technology

Displays (cont.)

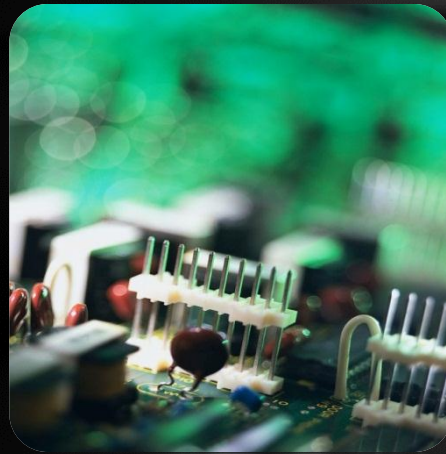
- OLED Displays
- LCOS near-eye
- QVGA LCOS Projectors
- 2D to 3D
- Large Color Segmented



SPECTRUM Technology

Sensors

- Resistive
- Touch/Touch Pad
- RFID
- Inductive
- Accelerometer
- Electrostatic Field
- Multisensor
- Magnetic Sensors
- Gyro (coming soon)



SPECTRUM Technology



Audio

- Voice/audio recordable: activating, morphing, mixing recognition
- Musical Toys
- Musical Instruments
- Autotune (high MIPS needed)
- Sound direction with Microphones
- Ultrasound and Audio Jack transmission/control using Smartphone/Tablet

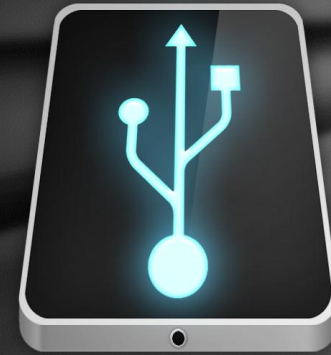


SPECTRUM Technology



USB

- 8 bit controller plus separate USB HID
- 16 bit with embedded USB HID/Data
- 32 bit with embedded USB 2.0 High Speed



Wireless

- Encode/Decode: RF control signals less than 3 feet
- Low-end 2.4 GHz 1Mb/250kbps 150 feet
- High-end 2.4 GHz Digital Video
- Wi-Fi



Cutting-Edge Technology

Printed/Paper Electronics

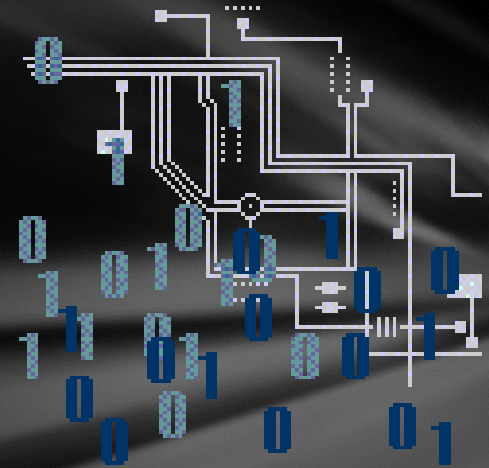
- Graphic Touch Services
- Interactive Packaging
- PE Connectivity to PCB
- Light-up Display Segments
- PCB replacement for large touch areas



SPECTRUM Technology

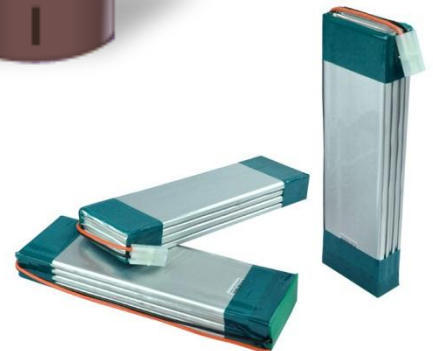
Flash Memory

- Flash Memory Controller IC
- uSDcard/SD card
- Thumb Drive
- Embedded
- Secure
- Limited Write



Batteries

- Lithium Polymer
- Ni-MH
- Rechargeable

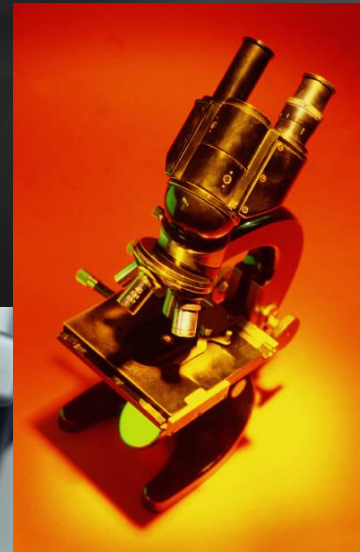


SPECTRUM Technology

Optical



- Light detection using LED as photodiode
- Infrared
- Camera
- Microscope, Night/High-speed/morphing, pre-processing, 3D, wafer scale
- TV pointing, shooting with IR lens
- Optical ID (embedded dot pattern)
- Object Recognition
- Color Detection
- Micro Camera



SPECTRUM Overview

SPECTRUM is an industry leader providing total solutions to the U.S. market for toy, consumer, medical, military, and safety and security products

SPECTRUM provides the newest, cutting-edge technology for your needs, designing in and around all products from companies we represent

SPECTRUM represents embedded microcontroller solutions for hand-held and stationary electronics

SPECTRUM assists with hardware and software development for prototypes and production-ready solutions

SPECTRUM provides assistance with product concepts, ideas, and applications

SPECTRUM arranges turnkey solutions using OEM production with support from Spectrum engineers, and ODM manufacturers for completing customers' finished products

SPECTRUM is your solution to low-cost, high quality technology



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