



- ### NEW FINGERTPS II SYSTEM ENHANCEMENTS
- **New Reference Sensor** for simple installation and calibration
  - **Improved Sensor Materials & Construction** for more accurate data and more secure sensor placement
  - **Enhanced Packaging** for better sensor storage
  - **Updated Algorithms** for easier and more accurate calibration
  - **Continual Feedback of Battery** level for wireless applications

### OVERVIEW & APPLICATION

The newly released **FingerTPS II™** system utilizes highly sensitive, capacitive-based pressure sensors to reliably quantify forces applied by the human hand. It is the only practical, user-configurable, comfortable sensor solution that also connects wirelessly to your PC.

Precise force data and video images can be captured and displayed in real-time via PPS' powerful **Chameleon TVR** software, which has Tivo®-like versatility in recording time-series, average, and peak force measurements. The new **FingerTPS II™** system has just been upgraded to feature multiple system enhancements for improved usability and performance.

### KEY FEATURES & BENEFITS

- **Comfortable** tactile sensors for fingertips, palm, and inner phalanges
- **User-Configurable** with up to 6 capacitive sensors per hand.
- **Video** recording, editing, and playback synchronized with tactile data
- **Wireless Bluetooth** connectivity for user mobility and freedom
- **Simple, one-touch Calibration** procedure with included reference force sensor

PPS also offers custom sensor design configurations or a full Tactile Glove to meet your requirements.

All FingerTPS II Systems Include
Any 2 FingerTPS II sensors
1 signal conditioning wrist assembly
Rechargeable wireless interface module
Chameleon visualization software
Hi-res USB 2.0 video camera
USB Reference Sensor
Sensor Types and Sizes
Finger (Small / Medium / Large)
Thumb (Small / Large)
Band-aid shape (Small / Large)
Palm (one size)

Specifications	
Sensor Thickness	2 mm (0.08")
Full Scale Range	0 – 2 kg (0 – 4.4 lbs) or 0 – 20 kg (0 – 44lbs)
Sensitivity 3 Sigma	< 1% FSR, < 1 oz, < 20 gram
Repeatability Error	< 7% FSR both Gain & Baseline
Creep at FSR	< 7% FSR /min
Temperature Range	0 - 50°C
Scan Rate	40 Hz
Range	10m (30 ft)
Power	USB rechargeable
Wireless Operation Duration (with fully charged battery)	~ 4 hours

