

# Kestrel Log-Periodic™ Dual Polarized Directional Antenna

Copyright © 2017

## Kestrel TSCM® Professional Software

### Signal Intelligence Support System (SISS)™

The Kestrel Log Periodic (KLP)™ is an ideal low cost solution under the powerful Kestrel® brand, and is ideal for tactical deployment in virtually any type of Radio Frequency (RF) sweep environment, at all known and developing operational threat levels within the private or public sector security apparatus. The Kestrel Log Periodic (KLP)™ is a Canadian manufactured product, selected as part of a complete antenna system, with an innovative proprietary custom engineered, combination pistol grip and table top tripod. The Kestrel Log Periodic (KLP)™ antenna is a decidedly single antenna solution for both primary detection, collection, analysis and signal localization across the typical Technical Surveillance Countermeasures (TSCM) operational range in a modern threat model. The Kestrel Log Periodic (KLP)™ antenna kit is the result of significant applied Research and Deployment (R&D) efforts and significant operational testing and qualification standards by our Technical Research and Standards Group (TRSG)™.

Introducing the Kestrel Log-Periodic, Dual Polarization Wideband (High Gain) Directional Antenna with a unique custom engineered, combination Pistol Grip and Portable Tripod Mount, for Quick Field Deployment.

**Technical Surveillance Countermeasures (TSCM) has Never Been this Easy!**



The Kestrel Log Periodic (KLP) is a Canadian manufactured antenna, with excellent passive isotropic, characteristics.

Design (680 MHz - 6 GHz) Vs Near Field (10 MHz - 12 GHz) \*\*

HF  
VHF  
VHF - FM  
UHF  
SHF

#### Rx Spectrum Bands

ISM	BPL
DECT 6.0	W-CDMA
DCS	HSDPS
DAB	HSUPA
LTE	CDMA One
AWS	CDMA 2000
GSM	1XEV-DO
PCS	EDGE
GPRS	ZIGBEE
2G	BLUETOOTH
3G	DSSS
4G	FHSS
WLAN	OFDM
FWA	



#### Key Features

Low Profile  
Rapid Field Deployment  
Log-Periodic Design  
Extended Frequency Range  
Excellent Gain (11.14 dBi)



#### Key Features

v1.05.2017.01.18

\*\* The Kestrel Log Periodic (KLP)™ offers an exceptional spectrum (design) range of (700 MHz to 6 GHz), which translates into a real-world (Rx only), Near-Field TSCM operational capability to well below 10 MHz, and greater than 10 GHz, making it ideal for indoor Direction-Finding (DF) applications, by minimizing the complexities of RF reflections and the effects of multi-path reception anomalies associated with strong near-field signals. A key feature of the KLP antenna is the innovative, custom engineered and manufactured (in Canada), quick connect pistol grip and tripod configuration that supports the antenna as both a tabletop collection antenna, and a comfortable exquisitely engineered, light weight component of a powerful Signal Intelligence Support System (SISS)™.

**"Innovation is Simply the Beginning..."**

#### Specification Overview

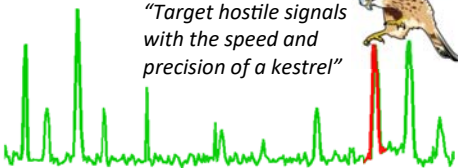
**Model:** Kestrel Log Periodic (KLP)™ Antenna  
**Application:** RF Collection and Signal Localization  
**Frequency Range (Far-Field):** 680 MHz to 6 GHz  
**Frequency Range (Near-Field TSCM):** 10 MHz to 12 GHz  
**Isotropic Gain:** Nominal (11.14 dBi)  
**Type:** Log-Periodic (Directional)  
**Polarization:** Vertical and Horizontal  
**Front / Back Ratio:** Nominal (19 dB)  
**Impedance:** 50 Ω  
**Connector:** SMA (M)  
**Mechanical:** 295 mm x 210 mm x 55 mm  
**Weight:** 0.4 kg  
**Cable:** Quad Shield Low Loss | SMA (M) Connector

*Specifications are Subject to Change Without Notice...*



"The KestrelPrey III™ and Kestrel Log Periodic (KLP)™ antenna minimizes the requirement for a separate broadband detector"

"Target hostile signals with the speed and precision of a kestrel!"



## Professional Development TSCM Group Inc.

5-4104 Fairview Street, Suite 319 Burlington Ontario Canada L7L 4Y8

Telephone: 647-293-7384 Email: [tsb@pdtg.ca](mailto:tsb@pdtg.ca) Website: [www.pdtg.ca](http://www.pdtg.ca)

# Kestrel Log-Periodic™ Dual Polarized Passive Directional Antenna

## Kestrel TSCM® Professional Software Signal Intelligence Support System (SISS)™

The Kestrel TSCM® Professional Software is a leading, highly versatile and scalable Software Defined Radio (SDR), TSCM specific and operator centric application. The Kestrel TSCM® Professional Software is a 100% Canadian engineered and developed software application that is ideal for professional Technical Surveillance Countermeasures (TSCM) and Remote Spectrum Surveillance and Monitoring (RSSM) applications. Kestrel® is a full featured, low cost, standalone Signal Intelligence Support System (SISS)™ and is an ideal sensor based platform for RF based applications, including the detection, identification, signal analysis, signal localization, and interference analysis, for short and long-term RF collection requirements. Differential Signal Analysis (DSA)™ and Time Differential Signal Analysis (TDSA)™ are powerful comparative analysis tools. The Kestrel® Multiple Receiver Operation (MRO)™ capability is an industry first, permitting the real-time synchronization and hand-off of the spectrum and demodulation process, across any supported receiver or analyzer. When combined with the KestrelPrey III™ | Advanced RF Locator, the technical operator will soon become to appreciate the ability to deploy and powerful primary resource and easily transition to a walk-about RF locator utilizing the familiar TSCM® Professional Software for absolute precision and continuity. The KestrelPrey III™ | Advanced RF Locator is a low profile, travel friendly, portable RF collection and analysis platform that can be quickly field deployed. The Kestrel® brand, means a lot more than a lower cost of overall ownership, it brings new innovative features and methodology to the technical security market worldwide. In a modern TSCM threat model, due-diligence can no longer be realized without applying new techniques, and innovative equipment resources based on a new methodology. ✈

The Kestrel Log-Periodic™ Dual Polarized, Passive (Wideband) Directional Antenna was specifically selected for use with the KestrelPrey III™ | Advanced RF Locator as a versatile low cost, technically compatible product that significantly enhances the technical operators ability to capture the ambient RF spectrum environment, in an Omni-Directional, vertically polarized tripod configuration, and quickly and easily transition to a powerful walk-about, highly directional Pistol Grip, Signal of Interest (SOI) locator, minimizing the requirement for a separate broadband RF detector.



**Sturdy and Light  
Weight Antenna  
Construction**

**Exceptional Near-Field TSCM  
Frequency Range to Below 10 MHz  
and Above 10 GHz**

**11.14 dBi Gain  
Provides Excellent  
Sensitivity**

**Log-Periodic Design  
with Exceptional Front /  
Back Ratio of 19 dB**

**Quad Shielded Low  
Noise Cable is  
Terminated with an  
SMA (M) Connector**

**Pistol Grip Design  
Quickly Permits  
Switching Antenna  
Polarization**

**Unique Proprietary  
Ergonomic Pistol Grip and  
Tripod Design**

The Kestrel® Log Periodic (KLP) antenna system, is delivered as a complete Rapid Deployment Kit (RDK) that is ready to deploy in virtually any TSCM or spectrum analysis application. The RDK includes a Log Periodic Antenna with a fixed, quad shielded RF cable, terminated with an SMA (M) connector, and a pre-installed quick disconnect Pistol Grip and Tripod Configuration, packaged in a travel friendly soft case.

**Technical Surveillance Countermeasures (TSCM) has Never Been this Easy!**

**Professional Development TSCM Group Inc.**  
5-4104 Fairview Street, Suite 319 Burlington Ontario Canada L7L 4Y8  
Telephone: 647-293-7384 Email: [tsb@pdtg.ca](mailto:tsb@pdtg.ca) Website: [www.pdtg.ca](http://www.pdtg.ca)