

PRO-1000DS[™] Traffic Safety Radar

The affordable PRO-1000DS is downsized -a kustom fit for any size patrol vehicle.

What's in a name? For Kustom's PRO-1000DS the name says it all: DS for downsized. Current technology has allowed us to make the PRO-1000DS, one of the smallest radar units available.

Unbeatable Tracking History

The Target Lock display allows you to lock a target speed and continue to monitor the target speed in the active Target Speed display. You'll see if the target slows down or speeds up and you'll hear the Doppler audio reinforcement. *Indisputable tracking history and target identification!*

Exclusive QuikTrakTM Feature

QuikTrak[™], a Kustom Signals exclusive, is a convenient shortcut, performing two functions at once. By pressing one button, the unit comes out of Hold mode and immediately monitors speeds. Releasing the button locks a target speed and puts the unit back into Hold.

Videotape Traffic Violations

Increase conviction rates and establish "probable cause" by choosing the optional feature of interfacing the PRO-1000DS with Kustom's in-car video systems. You'll have video-taped evidence of the speed violation as it occurs, with the actual speeds superimposed onto the footage. Unbeatable!

Kustom-Built to Last

Like all Kustom radar, the PRO-1000DS meets or exceeds all federal specifications. We use only the best componentry available; that means years of accurate, trouble-free performance.

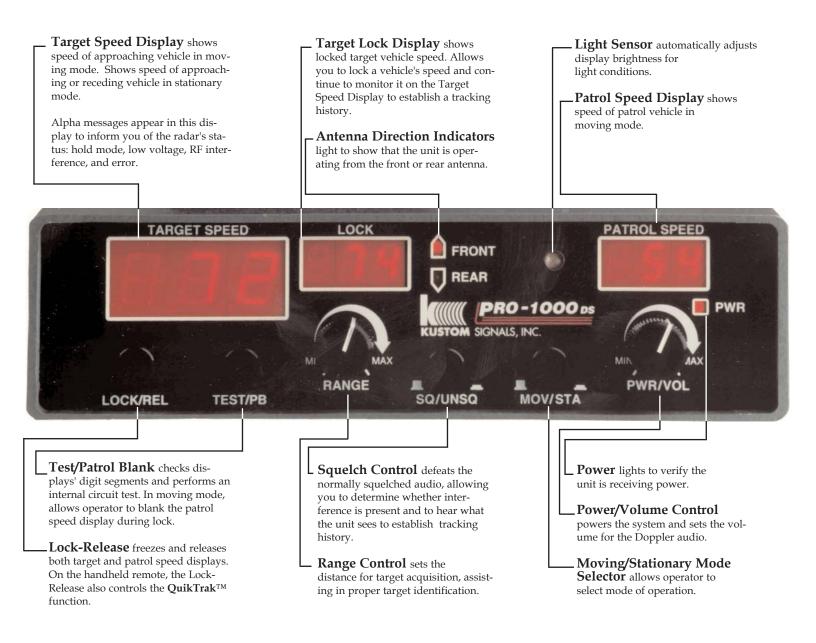
PRO-1000DS. The convenience you want and the reliability you expect in your Kustom radar.



For more information, call 1-800-4KUSTOM (458-7866) www.kustomsignals.com



Radar System Functions



The **Remote Control** features **RF Hold** to defeat radar detectors, **Lock-Release** to freeze the target speed in the lock display window, and **front/rear antenna** selection. **QuikTrak**[™] is operated by depressing and holding the Lock-Release button.

PRO-1000DS[™] **Radar System Specifications**

System – General		Antenna	
Туре:	Two-Piece Moving/Stationary	Operating Frequency:	24.15 GHz (k-band) <u>+</u> 100 MHz.
	True Doppler Radar.	Type:	Circular polarized, conical horn.
Measurement:	Available in miles or kilometers	Microwave Source:	Gunn-Effect Diode.
	per hour.	Beam Width:	13° +1°.
Operating Environment:	-22°F to +140°F (-30°C to+60°C);	Side Lobes:	25 dB below main beam.
	90% relative humidity at +99°F	Receiver:	Low-noise Schottky Barrier Diode (100 mW
	(+37°C), non-condensing.		rating).
Power Requirements:	10.8 to 16.5 VDC, negative	Power Output:	15 mW typ., 50 mW max.
	ground.	Power Density:	<5 mW/cm ² (measured 5 cm from antenna
	13.6 VDC nominal, 1.0A max.		face).
Reverse Polarity	No damage will result, due to	Weather Resistance:	For mounting inside or outside patrol vehicle.
Protection:	reversal of power supply.	Dimensions:	3.5"H x 3.6"W x 3.75"L, 1.88 lbs.
			(8.89 x 9.14 x 9.53 cm, 0.85 kg)

Display/Counting Unit

QuikTrak™:			
~	One-button operation of Hold, target tracking, and Lock functions. Depressing the Lock/Release button takes the unit out of	Displays:	Seven-segment, high-brightness LED displays automatically adjust to ambient light conditions.
	Hold mode to monitor speeds. Release of the	Lock Time:	Instantaneous.
	button locks a target speed and puts the unit	Lock Display:	
	into Hold mode.	LOCK DISplay.	Displays locked target speed. Unit
6 I.D	Microprocessor automatically performs inter-		continues to display an active target
Speed Processor:		A standard Class	speed in the Target Display.
	nal speed verifications, crystal and lamp tests.	Automatic Clear:	Displays clear when a mode of opera-
Test / PB:	Test: Upon activation, performs three tests:		tion changes.
Light Test:	Displays' digit segments are operational.	Harmonic Detect:	Prevents the display of erroneous tar-
Audio Test:	Audio components are operational.		get readings resulting from strong
Internal Test:	Circuit test of both target and patrol readings		reflections of the patrol vehicle. ()
	(32) cross-checks the system's dual independ-		appears in the Target Display.
	ent quartz crystal time bases.	Interface Port:	15-pin I/O connector for interfacing
	Patrol Blank: Allows operator to blank the		the unit with Kustom's Eyewitness
	locked patrol speed.		In-Car Video System, Giant P.R.
Auto Test:	Automatic comparison of the two quartz crys-		Display, or data collection device
	tal oscillators occurs – without displays –		(optional).
	approximately every 1/4 second.	Dimensions:	1.75"H x 6.5"W x 5"D, 1.63 lbs.
Accuracy:	Moving : ±2 mph (+3 km/h).		(4.44 x 16.51 x 12.70 cm, 0.74 kg)
5	Stationary : ±1 mph (+2 km/h).		
Audio:	Operator-controlled circuit amplifies the true		Accessories
	Doppler audio.	1	Accessories
	Doppier audio.		
Squelch Control:	Allows operator to unsquelch audio to deter-	Included:	Optional
Squelch Control:	Allows operator to unsquelch audio to deter- mine level of potential interference.	Included: • Remote Control	Optional Dual Antenna Kit: Antenna, Mount,
-	Allows operator to unsquelch audio to deter- mine level of potential interference. Presets range for target acquisition.	 Remote Control Tuning Forks: 35 and	 Dual Antenna Kit: Antenna, Mount, Cable
Range Control:	Allows operator to unsquelch audio to deter- mine level of potential interference.	Remote ControlTuning Forks: 35 and 65 mph	Dual Antenna Kit: Antenna, Mount, CableIn-car video interface
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