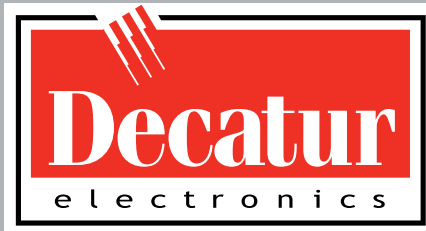


# Technical Specifications

**Genesis II Select™**  
**Harley-Davidson®**  
 Integrated Motorcycle Radar System  
 Revision Date 10-7-09



Certified ISO 9001

www.DecaturRadar.com  
 Phone: 800.428.4315  
 Outside USA: 217.428.4315  
 Fax: 217.428.5302

715 Bright Street  
 Decatur, IL 62522

General Specifications	
Type	Motorcycle-mounted, dual antenna, moving/stationary Doppler radar
Accuracy	100% accurate with a display resolution of $\pm 1$ unit of measure ( $\pm 1$ mph, $\pm 1$ km/h)
Ambient Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Available Frequencies	Ka-Band
Communications	RS232, DB-9 serial connector
Controls	All functions controlled through the handlebar controls
Display	Hi Intensity LEDs with 4 windows for displaying target speeds, modes, locked speeds, and patrol speeds
Features	DSP, 32 bit processing with true doppler audio. Internal and user initiated self-tests.
Finish	Black, scratch resistant powder coat paint
Frame	Durable extruded aluminum frame
Maximum Humidity	90% relative humidity @ +98.6°F (+37°C)
Power	12 VDC nominal
Speed Range - Stationary	12 mph - 210 mph (19 km/h - 337 km/h)
Speed Range - Moving	12 mph - 210 mph (19 km/h - 337 km/h) Depending upon mode. Refer to Speed Range details
Standard Warranty	Two-year parts & labor
Water Resistance	Antennas meet European Community Standard EN60529 Classification IP67. Panel connectors meet European Community Standard EN60529 Classification IP68.

General Specifications - continued	
Weight	2.2 lbs (0.995 kg) Display & Computer

Display - Mechanical	
Display	Compact display with cable and bracket
Dimensions	1.45" (H) x 5.25" (W) x 1.1" (D) (3.68 cm x 13.33 cm x 2.79 cm)
Weight	13.5 oz (0.38 kg)

Computer - Mechanical	
Dimensions	1.45" (H) x 5.25" (W) x 3" (D) (3.68 cm x 13.33 cm x 7.63 cm)
Weight	21.57 oz (0.61 kg)

Computer - Electrical	
Power Requirements	+10.8 VDC to +16.5 VDC (+13.6 nominal)
Low Voltage Shutdown	+10.8 VDC with visual indicator
Minimum Current Draw	0.60 Amperes (Antenna off)
Maximum Current Draw	1.3 Amperes (All segments lit)
Fusing	Internal, resettable

Computer - Speed Ranges	
Stationary Mode	12 mph - 210 mph (19 km/h - 337 km/h)
Stationary Mode Low Speed Option	2 mph - 210 mph (4 km/h - 337 km/h)
Moving Mode Opposite Direction - Patrol	5 - 100 mph (with no targets) (8 km/h - 161 km/h)
Moving Mode Opposite Direction - Target	12 mph - closure 210 mph (19 km/h - closure 337 km/h)
Moving Mode Same Direction - Patrol	20 mph - 100 mph (32 km/h - 160 km/h)



# Technical Specifications

## Genesis II Select™ Harley-Davidson® Integrated Motorcycle Radar System Revision Date 10-7-09

Computer - Speed Ranges continued	
Moving Mode Same Direction - Target (Slower or Faster)	From the user's selected minimum speed separation up to 75% of the patrol speed

Handlebar Controls - Mechanical	
Features	Right & left handlebar controls that operate all functions.
Dimensions	3.2" (L) x 1.6" (W) x 2.35" (D) (8.13 cm x 4.06 cm x 5.97 cm)
Weight	9.12 oz (0. 258 kg)

Audio - Speaker Kit (FLHTP Models) (S779-6-0)	
Features	Internal, low profile speaker with grill
Dimensions	5.25" (H) x 5.75 (W) x 3" (D) (13.335 cm x 14.605 cm x 7.62 cm)
Weight	21.38 oz (0.605 kg)

Audio - Speaker Kit (FLHP, FXDP Models) (S779-600-0)	
Features	Chrome plated, bullet styled housing with speaker
Dimensions	3" circular x 2.75" (D) (7.6 cm x 6.985 cm)
Weight	18.496 oz (0.524 kg)

Ka-Band Antenna	
IACP Type	VI
FCC Identifier	HTRKA2
Frequency	35.500 GHz nominal
Beam Width	12° nominal
Polarization	Circular
Power Density	$\leq 2 \text{ mWcm}^2$
Power Output	10 mW nominal
Dimensions	3.85" (L) x 2.10" (W) (9.77 cm x 5.33 cm)
Weight	13.824 oz (0.392 kg)

Tuning Forks	
MPH Ka-band	35.2 & 50.6 mph Ka-band tuning forks with case (S900-22)
KM/H Ka-band	60.2 & 90.6 km/h Ka-band tuning forks with case (S900-27)

