



IW-5900/1575



IW-5900 DSRC

Inside Window Mount DSRC Only & DSRC/GPS

- Both antenna styles uses 3M VHB double sided tape
- Compact and low profile designs
- Choice of DSRC-only or combined DSRC&GPS

These inside window mount DSRC only or combined DSRC/GPS antennas were specifically designed for ITS (Intelligent Transportation Systems), and used for Vehicle -to-Vehicle (V2V) in ITS Trials. These antennas operate on the DSRC frequency, covering 5.85-5.93 GHz.

The IW-5900/1575 is a window mounted vehicle antenna that is designed for DSRC at 5.85-5.93 GHz and GPS at 1575 MHz. The antenna uses LMR-100 cables on DSRC and RG-174 on GPS. It is housed in a single ASA plastic radome. Cable assemblies of any length are available to complete the installation.

The IW-5900/1575 measures 3.56" x 3.41x .47" D (90 mm x 87mm x 12mm).

The IW-5900 DSRC antenna is designed for mounting on the inside of a vehicle windshield. The unique radome design provides internal element tilt to compensate for the tilt angle of the windshield. The cable exits near the top side allowing

direct entry into the vehicle headliner.

The IW-5900 measures 1 5/8" H x 1 5/8" W x 7/8" D (41mm x 41 mm x 22 mm).

The antennas are mounted with double sided 3M VHB tape. The IW-5900 and the IW-5900/1575 Glass Mount radomes are made with black ASA Plastic.

Model #	Frequencies
IW-5900/1575-7C2C-BLK-12	5.85-5.93 GHz (DSRC) 1575 MHz (GPS)
IW-5900-7C-BLK-12	5.85-5.93 GHz (DSRC)
<u>Optional Glonass Option Available</u>	
Standard connector is a SMA Plug (Male)	

Specifications			
Frequency:			
DSRC	5.85-5.93 GHz	Connector:	SMA Plug Standard Other connectors available
GPS	1575 MHz	IW-5900 DSRC	
GLONASS (Optional)	1612 MHz	Case:	Black ASA
VSWR:	2:1 max over range	Size:	1.63" dia. x .1.61" H (4.2 mm x 4.1 mm)
Maximum Power:	10 Watts	Mounting:	Double sided 3M VHB tape
GPS Gain:	1575 +/- 2MHz, LNA 26 dB, 5 dBi nominal RHCP	Cable:	LMR-100, 1ft long, (30.5cm)
Amplifier Bias:	3.3 to 5 VDC	Connector:	SMA Plug (Male)
Current:	20 mA max, 10 mA typical	Shock & Vibration:	EN 61373, IEEE 1478, Mil-801-G, TIA-329.2-C
IW-5900/1575		Water Ingress:	IPx5
Case:	Black ASA Plastic		
Size	.47" H x 3.56" W x 2.41" D (12mm x 91mm x 61mm)		
Mounting:	Double sided 3M VHB tape		
Cable:	LMR-100, 1 ft long (DSRC) (30 cm) RG-174, 1 ft long (GPS) (30cm)		