

## GV-GPS Receiver



The GV-GPS Receiver can work with GV-System, GV-DSP LPR, GV-Video Server and GV-Compact DVR to perform GPS vehicle tracking. It comes with three types of models: UART, RS-232, and USB. Each model can only work with appropriate Hardware and Firmware version as described below:

Model	Interface	Baud Rate	Compatible IP Device
GV-GPS UART	UART	9600	GV-Video Server (GV-VS02A)
			GV-Video Server (GV-VS04A)
			GV-Video Server (GV-VS14)
GV-GPS 232	RS-232 Wires	9600	GV-Video Server (GV-VS04H)
			GV-DSP LPR V2 / V3
			GV-Video Server (GV-VS12)
	PS/2 Connector	9600	GV-Compact DVR V1
			Standard Model (GV-LX4C2)
			Anti-Vibration Model (GV-LX4C2V)
GV-Compact DVR V2	Anti-Vibration ACC Model (GV-LX4C2V)	Firmware Version 1.00 or later	
		Firmware Version 1.05 or later	
GV-Compact DVR V3	Anti-Vibration ACC Model (GV-LX4C3V, GV-LX8CV1, GV-LX8CV2))	Firmware Version 1.00 or later	
		Firmware Version 1.00 or later	
GV-GPS USB	USB Connector	4800	GV-System
			Firmware Version 8.3.2 or later

## Specifications

<b>Chipset</b>	
Chipset	SiRF Star IV
<b>Electrical Characteristics</b>	
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm
<b>Accuracy</b>	
Position Horizontal	Position Horizontal
Velocity	Velocity
Time	Time
WAAS enabled	WAAS enabled
<b>Datum</b>	
Datum	WGS-84
<b>Acquisition Rate</b>	
Hot Start	1 sec. average (with ephemeris and almanac valid)
Warm Start	38 sec. average (with almanac but not ephemeris)
Cold Start	42 sec. average (neither almanac nor ephemeris)
Reacquisition	0.1 sec. average (interruption recovery time)
<b>Protocol</b>	
GPS Protocol	Default: NMEA 0183 (Secondary: SiRF binary)
GPS Output Data	SiRF binary >> position, velocity, altitude, status and control ; NMEA 0183 protocol supports command: GGA, GSA, GSV, RMC, VTG, GLL (VTG and GLL are optional)
GPS Transfer Rate	Default : 9600,n,8,1 for NMEA Default : 4800,n,8,1 for NMEA (for GV-GPS USB only)
<b>Dynamic Condition</b>	
Acceleration Limit	Less than 4g
Altitude Limit	18,000 meters (60,000 feet) max.
Velocity Limit	515 meters/sec. (1,000 knots) max.
Jerk Limit	20 m/sec x 3
<b>Temperature</b>	
Operating	-40°C ~ 85°C / -40°F ~ 185°F
Storage	-40°C ~ 85°C / -40°F ~ 185°F
Humidity	Up to 95% non-condensing
<b>Power</b>	
Voltage	4.5V ~ 6.5V
Current	80mA typical (Continuous mode)
<b>Physical Characteristics</b>	
Dimensions (D x H)	53 x 19.2 mm / 2.09 x 0.76 in
Cable Length	2.7 m / 8.86 ft
<b>Installation Guide</b>	<a href="#">GV-GPS Receiver</a>

**Note:** All specifications are subject to change without notice.