GVN 53 SERIES PRODUCT SPECIFICATIONS - 4/12/07



The GVN 53 series products are the next generation "black box" models in GARMIN's Vehicle Navigation series. The GVN 53 is designed to interface with an existing display in a vehicle. It is customizable with different audio/video and input/output configurations for specific OEMs.

The main updates from GVN52 are:

- 1) High sensitivity GPS
- 2) Simultaneous RGB and Composite video output option.

Below are some customizable options. The best video quality is available with analog RGB video.

Maps	Video	Dead	TTS	RF	Serial	Line	5V	Mute	Park	GXM30	GTM10	Manuals
		Reckoning		Remote	Interface	Level Audio	Speaker Level		Brake	capable	capable	
						· · uuio	Audio					
Preprogrammed	Analog	No	Yes	Yes	Yes	Stereo	Yes	Yes	Yes	Yes	Yes	Translated
in unit	RGB,			or	or	or	or	or	or	or	or	into
or	NTSC			No	No	Mono	No	No	No	No	No	multiple
on SD card	composite,											languages
	or both											

GENERAL SPECIFICATIONS

Operating Temperature:	-15C to 70C
Storage Temperature:	-40C to 85C
Operating Voltage:	9.5V-25V (Note: Designed to operate over 40V continuously)
Current Consumption:	0.12A typical at 13V (Max 1.0 A at 13V)
ACC off Current:	70uA typical at 13V
Height:	30 mm
Width:	120 mm base (100 mm nominal)
Length:	117 mm
Weight:	157 g

The unit is not waterproof.

<u>SIGNAL PINOUT</u> Note: Exact configuration depends on OEM requirements. Features not desired are not populated and those signals are not used.

J600 Main						
Output: NTSC, 1Vpp $\pm 10\%$, AC coupled, 75 Ω external termination						
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speaker						
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3V						
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MATING CONNECTOR

24 Pin Plug: AMP 1318917 (or equivalent) Contact Pins: AMP 1123343 (or equivalent)



NAVIGATION SPECIFICATIONS

Receiver:	SiRF Star III high-sensitivity GPS receiver			
Receiving frequent	ncy: 1575.42MHz (C/A code)			
Acquisition Time	s Cold: < 38 sec			
	Factory Reset: < 45 sec			
	*On average for a stationary receiver with a clear view of the sky			
Update Rate:	1/second, continuous			
Accuracy:	Position: < 10 meters, typical			
	Velocity: 0.05 meter/sec RMS			
Positioning Method: GPS				
Antenna:	External 3.3V GPS Antenna - requires 3" metal plate behind antenna			

GVN 53 INCLUDES

- City Navigator data full coverage, pre-programmed maps internal to unit (not on SD card)
- Text-to-speech, including turn-by-turn guidance with street names
- External GPS antenna and ground plane magnet mount
- GARMIN RF remote (does not require line of sight like IR remote)
- Owners manual and installation guide
- Wire harness to connect to vehicle
- 4 mounting screws
- Hook and loop fasteners (similar to Velcro®)
- Compatible with GTM 10 TMC traffic receiver
- Compatible with GXM 30 XM traffic and data receiver

MAP UPDATES

Map updates are typically available once per year and are available on a pre-programmed SD card.