

## WR-G305i

### Introducing a breakthrough

Convert your desktop PC into a most sophisticated radio monitoring station! The WINRADIO **WR-G305i** is a software-defined PC-based wideband scanning receiver covering a frequency range from 9 kHz to 1800 MHz (expandable to 3500 MHz with an optional [downconverter](#)).

The receiver comes on a standard two-third length PCI card and is compatible with all modern desktop computers with an available PCI 2.2 standard slot.



### Features

- Frequency range from 9 kHz to 1800 MHz (except cellular bands where required by law)
- Software-defined demodulation
- Extraordinary sensitivity
- Tracking front-end filters
- Excellent strong signal handling
- Real-time spectrum analyzer
- Spot-on tuning in 1Hz steps
- Accurate signal strength indicator
- Fast scanning speed
- Multiple squelch modes
- Very low phase noise
- DRM [decoder option](#)
- APCO P25 [decoder option](#)
- 3.5 GHz [downconverter option](#)
- Standard PCI interface
- Plug and Play installation

With the [Professional Demodulator Option](#), the many additional features include:

- Continuously variable IF bandwidth 100 Hz - 15 kHz
- User adjustable filter selectivity
- WINRADIO [Digital Bridge™](#) compatibility
- Built-in test and measurement instrumentation
- Interactive block diagrams

# G3

The **WR-G305i** is the first of our **G3 Series** of VHF/UHF **software-defined** receivers.

The "G3" stands for "the third generation": As the original, award-winning, first-generation WINRADIO **WR-1000i** receiver was the world's first commercially available wide-band receiver on a PC card when launched over a decade ago, the newly introduced **WR-G305i** is the world's first commercially available **software-defined** VHF/UHF receiver on a PCI bus card.

A **Software Defined Radio** (SDR) is such where demodulation and last IF (intermediate frequency) processing are done entirely in software. Usually this means using a DSP, but in the case of the G305i, this processing is done on a personal computer using a sound card (most modern PCs are now faster and more powerful than many DSPs were only a few years ago). So, if you own a PC, the chances are that you already own an important part of a software defined radio receiver!

In addition to the flexible and friendly [user interface](#), with its numerous functions and facilities not normally available on any conventional receiver, the **WINRADIO G305i** receiver excels particularly by the ability of its [demodulators](#).

While the **Standard Demodulator** provides performance of a highly respectable scanning receiver including synchronous AM demodulation and a real-time spectrum scope, the optional **Professional Demodulator** offers even more: continuous IF filter bandwidth adjustment (in 1Hz increments), interactive block diagrams with two additional audio spectrum scopes, and even inbuilt THD and SINAD measurement facilities.

An optional [DRM decoder/demodulator](#) is also available.

The **WINRADIO G305i**: A ground-breaking general-coverage receiver that opens many new possibilities in the world of both conventional and digital communications. Prepare to be amazed!



### What's included?

The standard WR-G305i package includes:

- WR-G305i receiver card
- Application software
- Comprehensive user's manual
- Start-up antenna
- Audio lead
- BNC-to-SMA adapter

**No external boxes, interface cables or power supplies needed - no clutter on your desk. Just plug in and experience scanning the bands as you never did before!**

**System requirements:**

- PC with 500 MHz Pentium CPU or faster
- One free PCI slot
- Windows XP/Vista/7
- Standard sound card