

TV/Radio reception

The device is not foreseen for TV or radio DVB-T reception and as such there is no software provided by us for this purpose.

Other notes

ADS-B reception is strictly line-of-sight. Trees, buildings, mountains etc. will block the reception. Not all aircraft transmit ADS-B data. Place your antenna accordingly. If you want to improve your reception consider buying a dedicated ADS-B antenna from the [jetvision.de](https://www.jetvision.de) 1090MHz-Shop at <https://www.jetvision.de>.

General notice

Information and data contained in this manual are subject to change without notice in advance.

No part of this user's manual may be reproduced, or transmitted for any purpose, regardless in which way or by which means, electronically or mechanically, without explicit written approval of Günter Köllner Embedded Development GmbH.
jetvision.de is a brand of Günter Köllner Embedded Development GmbH.

Manufacturer

Diamond Crown Technology Co., Ltd.

Distribution

Günter Köllner Embedded Development GmbH
85256 Vierkirchen, Germany

Quick Start Guide

Diamond Crown Technology

R820T2 ADS-B USB Dongle

Art. 53199

Art. 53200

Art. 53505



jetvision

Description

Using the Diamond R820T2 ADS-B-Dongle you can receive ADS-B signals on your PC or notebook. The receiver can be used as a general SDR or FLARM receiver, too.

Specification

ADS-B reception on 1090 MHz

SDR reception (approx. 24- 1.700 MHz, no guaranteed frequency coverage)

R820T2 tuner

RTL2832U Decoder and USB interface

MCX female connector

USB 2.0, max. sample rate 3.2 MBit/s

Internal power supply

The device is not foreseen for reception and decoding of TV or radio signals.

The frequency accuracy is specified

for art. no 53199/ 53200 as +-100 ppm (standard accuracy)

for art. no 53505 as +- 2 ppm (enhanced accuracy)

Please note that due to the characteristics of the ADS-B signal the enhanced accuracy is not required for its reception, but it may be useful for SDR functionality.

System requirements

Windows 7/ 7-64/8-32/8-64/10-32/10-64

PC or Notebook with a free USB 2.0 Port

Antenna placement with free outside view

Package contents

USB 2.0 Dongle with standard (art. no. 53199)

or enhanced (art. no 53505) frequency accuracy

Small Indoor Antenna (art. no. 53200 only)

Installation

Follow the general instructions below for installation of the receiver. If necessary, read the manual of your computer, or ask a specialist for help.

Download of driver software

Download the software RTL1090 - IMU

(Installer and Maintenance Utility) from

<http://shop.jetvision.de/Service-Downloads>

Driver Installation

1. Switch on your computer.
2. Connect the antenna to the ADS-B receiver. Place the antenna with a free sky view to potentially ADS-B transmitting aircraft.
3. Connect the ADS-B receiver to a free USB port of your computer.
4. Afterwards, Windows will display the hardware wizard.
5. Now: click on „Cancel“.

Start the RTL1090 - IMU application as downloaded before and follow the instructions to install the drivers and application RTL1090.

Software installation

Download and install any other software to display and share ADS-B data e.g.

<http://www.planeplotter.com>

<http://www.fr24.com>