



QUAKE II

RTX

QUAKE II RTX

DEMO GUIDE



QUAKE II RTX - Getting Started

Introduction

This guide provides further information about the real-time ray tracing enhancements, and other advanced features, that NVIDIA has implemented to create *Quake II RTX*. Most noticeably, we have introduced high-fidelity, real-time path-traced reflections, ambient occlusion, lighting, and shadows, which is a world's first for any game. For an explanation, [check out this video](#):

<https://www.youtube.com/watch?v=p7RniXWvYhY>

Quake II RTX includes the first 3 levels of the game with our full suite of enhancements. [Purchase the full game](#) to get access to all the levels, as well as multiplayer with path-tracing.

System Recommendation

The following system configuration, or better, is recommended:

- **GPU:** NVIDIA GeForce RTX 2060 or higher
- **OS:** Windows 10 64 bit or Ubuntu 18.04 LTS 64-bit
- **CPU:** Intel Core i3-3220, or AMD equivalent
- **RAM:** 8 GB RAM

Getting Started

- 1.) Ensure you have the recommended system specifications
- 2.) Have the latest [Game Ready Driver](#) installed.
- 3.) Install *Quake II RTX*.
 - a.) *Please see installer instructions below*
- 4.) Launch *Quake II RTX* via desktop shortcut.
- 5.) Set Recommended Settings
 - a.) Go to Video -> Set desired Global Illumination Setting (*Recommended: Medium*)
 - b.) Set desired resolution (*Recommended: 1080p*)
 - c.) Go back and click Game -> Choose desired difficulty.

Installer Instructions

- 1.) **Windows (Demo)**
 - a.) Launch the [Quake II RTX installer executable](#), or download and run from [Steam](#)
 - b.) Make sure that "Quake II Shareware Demo" and "Desktop Shortcut" are both selected
 - c.) The Installer will install the RTX Demo and leave a shortcut on your desktop.

- 2.) **Linux (Demo - Debian / Ubuntu Package)**
 - a.) Install the *Quake II RTX* .deb package
 - b.) The Installer will install the RTX Demo and leave an icon in your applications menu.
- 3.) **Linux (Demo - Steam)**
 - a.) Download and run Quake II RTX from Steam

Enable Ray Tracing for the Full Game

- 1) [Purchase the full game](#)
- 2) Launch the [Quake II RTX installer executable](#), or download and run from [Steam](#)
- 3) The installer will detect the Quake II executable location.
- 4) The installer will implement RTX with the full game and leave a shortcut on your desktop.

Playing the Demo

Quake II RTX is a remaster of the classic game. *Quake II RTX* is fully ray-traced (using path tracing), delivering highly realistic lighting, shadows, reflections, global illumination and more.

- **Start game**
 - Game > Easy
- **Movement & Weapons**
 - Left Mouse Button = Fire/Attack/Action
 - W = Forward
 - A = Strafe Left
 - S = Backward
 - D = Strafe Right
 - SPACE = Jump
 - CTRL = (Holding) = Crouch
 - SHIFT = Walk (default is run)
 - F = Flare gun
 - G = Grenades
- **Give weapons and ammo**
 - *Press ~ (tilda) button to open the console*
 - */give all = All weapons, ammo, items, keys*
 - */dmflags 8192 = Unlimited Ammo*
- **Show RTX ON/OFF**
 - Show RTX OFF
 - **RTX OFF:** Video > Renderer > OpenGL
 - **RTX ON:** Video > Renderer > rtx

Multiplayer Support

Quake II RTX comes with multiplayer support. There are multiple options to play this game in multiplayer mode:

1. Join an existing public or private Quake II server online.
2. Start a server directly from the game.
3. Start a dedicated server and join it.

Joining a server

There are two ways to join an existing server: through the server catalog on q2servers.com, and manually. The catalog is available through the Multiplayer menu:

Hostname	Mod	Map	Players	RTT	Frg	RTT	Name
tastyspleen.net: dm	baseq2	q2dm2	7/17	42	0	3	WallFly[0zzz]
PlayGround.ru - Deathmatch	openffa	ztn2dm4	7/20	192			
PlayGround.ru - Teamplay	opentdm	q2dm1	7/12	188			
tastyspleen.net: vanilla	baseq2	hardange	4/32	41			
[HCI] Custom Coop - Vanilla, Xatrix, and Rogue. Votable Maps!	coop	rbase1	2/8	92			
Quake 2 - Novosibirsk [TP]	opentdm	ztn2dm3	2/18	238			
tastyspleen.net: xquake	baseq2	jail4	1/16	43			
tastyspleen.net: pugny	baseq2	hub	1/32	41			
tastyspleen.net: vanilla2	baseq2	mine4	1/16	41			
tastyspleen.net: mutant [custom maps dm]	baseq2	hardange	1/17	42			
tastyspleen.net: zigbot [ffa bots]	baseq2	city1	1/32	41			
tastyspleen.net: hardcore (-a -h -pu)	baseq2	torment	1/12	42			
tastyspleen.net: classic (dm1-dm8 only)	baseq2	q2dm7	1/16	42			
tastyspleen.net: warehouse (q2dm8)	baseq2	q2dm8	1/16	44			
macanah.mooo.com q2 Matrix get mod from my site	baseq2	mq2dm2	1/3	221			
tastyspleen.net: hell	baseq2	diava_tes	1/16	42			
tastyspleen.net: t9900	baseq2	city64	1/80	43			
Gurby's Playpen	baseq2	homers12	1/16	43			
tastyspleen.net: aq2-ffa	action	time	1/24	42			
Felitutka AQ2 2	action	jungle1	2/12	202			
tastyspleen.net: aq2-tdm	action	thicket	1/24	44			
macanah.mooo.com q2 Action	action	urban3	1/36	217			
tastyspleen.net: ra2-matchz (password)	arena	ra2map9	1/17	44			
tastyspleen.net: ra2	arena	ra2map27	1/36	42			
tastyspleen.net: ra2-railz	arena	ra2map17	1/25	43			

Key	Value
Q2Admin	1.17.44-tsmod-2
mapname	jail4
anticheat	1
sv_noobquad	0
gamedate	Aug 2 2009
gamename	baseq2
sv_handicap	1
maxspectators	8
INFO2	NO BOTS, HACKS, CHEATS PLEASE
INFO1	All Skill Levels Welcome
cheats	0
timelimit	30
fraglimit	40
dmflags	16384
deathmatch	1
version	RIQ2 b7864 i386 Oct 1 2008 Linux
hostname	tastyspleen.net: xquake
maxclients	16

23.227.170.222:22917 Press Enter to connect; Space to refresh 119 players on 145 servers

To join an unlisted server, open the console and type “connect <address>”.

If the server is password protected, open the console and type “password <password>” before joining the server.

Note that when playing on non-Q2RTX servers, you may observe some compatibility issues:

- Rockets and other items may disappear in certain pools of water, which were opaque in the original Quake II;
- Flare gun will not be available;
- Gameplay mods or custom maps may be incompatible with Q2RTX.

Starting a server from the game

In the multiplayer menu, select “start server”. The following dialog will appear:



Starting a dedicated server

Quake II RTX ships with a separate dedicated server executable, “q2rtxded.exe” (on Windows). This is a lightweight version of the game that can only act as a server, but doesn’t allow you to play it directly and doesn’t have any graphics.

Simply launching the dedicated server will make it start a deathmatch session on the first available map, which is “base1”. You can change the map and other game settings using the server console, or you can put those commands into a config file and execute that file on server startup using the command line. For example, you can put something like this in a file called “server.cfg” in the baseq2 directory:

```
set password <password>
set rcon_password <another_password>
set deathmatch 1
set coop 0
set sv_maplist q2dm1 q2dm2 q2dm3 q2dm4
set timelimit 20
set fraglimit 20
map q2dm1
```

Then start the server using command line:

```
q2rtxded.exe +exec server.cfg
```

Server configuration

Many of the console variables useful for dedicated server administration are documented in the [Q2PRO server manual](#) - since Quake II RTX is derived from Q2PRO, these variables still apply. We have added some more variables to control RTX specific features:

sv_flaregun: controls whether players spawn with the flare gun and ammo for it. 0 means no flare gun, 1 means spawn with the flare gun but no ammo, 2 means spawn with the flare gun and 5 grenades (because the flare gun uses grenades).

sv_restrict_rtx: if set to 1, makes the server available only to clients playing Quake II RTX; other clients like the regular Quake II or Q2PRO will be rejected.

sv_savedir: path to the directory *within baseq2* where the server will save game state in cooperative play mode. If multiple dedicated cooperative servers are started from the same installation directory, they should use different directories to save game state.

The *sv_flaregun* and *sv_restrict_rtx* settings have been added mostly for compatibility reasons. Quake II RTX uses the regular Quake II network protocol (version 36 from Q2PRO), but the flare gun is an extension to the protocol. If both Q2RTX and other clients participate in a multiplayer game, and the Q2RTX user fires a flare gun, other clients that see the flare will disconnect because they do not understand what that means. So it is advised to either disable the flare gun on MP servers, or to make the servers only available to Q2RTX players.

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[Quake II](#): Copyright (C) 1997-2001 Id Software, Inc. Licensed under the terms of the GPLv2.

[Q2VKPT](#): Copyright © 2018 Christoph Schied. Licensed under the terms of the GPLv2.

[Quake2MaX "A Modscape Production"](#): Textures from Quake2Max used in Quake2XP. Copyright © 2019 D Scott Boyce @scobotech. All Rights Reserved. Subject to Creative Commons license version 1.0. Roughness and specular channels were adjusted in texture maps to work with the *Quake II RTX* engine.

[Q2XP Mod Pack](#): Used with permission from Arthur Galaktionov.

[Q2Pro](#): Copyright © 2003-2011 Andrey Nazarov. Licensed under the terms of the GPLv2.