Command & Conquer Windows 95 Edition

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1. General Information

1.1. Installing Covert Ops over Command & Conquer Gold

If you install Covert Operations over C&C 95 it will be necessary to reboot your system before attempting to play C&C 95. After restarting your computer, you may get an error message saying that windows cannot run INSTICON.EXE. This condition can only be fixed by manually editing your WIN.INI file and removing any reference to INSTICON.EXE. To edit WIN.INI, click on the Start Menu, select Run.., type 'sysedit' and click OK.

Note that you cannot play a Covert Operations multiplayer mission against an opponent who does not have Covert Operations.

#### 1.2. Microsoft DirectX

The Windows 95 version of C&C 95 is a Microsoft DirectX application. Version 3.0a of Microsoft DirectX is included on the CD and you have the option to install it when C&C 95 is installed.

If you have difficulty running Windows 95 after these new Microsoft DirectX drivers have been installed, please contact your local Microsoft subsidiary, or write:

#### Microsoft Customer Sales and Service, One Microsoft Way, Redmond, WA 98052-6399, USA

USA telephone: 1-800-426-9400 International telephone: ++1-206-882-8080

All Microsoft DirectX drivers are located in the Dxsetup folder off of the root of the CD. To reinstall the Microsoft DirectX drivers go into the Dxsetup folder and run Dxsetup.exe. You can explore the CD by choosing the "Explore the CD" option in the autoplay title screen.

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#### 2. Troubleshooting

2.1. Modem Play

2.1.1. USRobotics Modems

# You should not use the 14400 or 28800 baud rate settings with USRobotics modems.

Additionally, we have found that USR Sportster 33600 modems connect better with error correction and data compression enabled. To do this in C&C95, go to the communications settings dialog, select 'advanced', and turn both error correction and data compression settings to on.

Both players should turn these settings on even if only one has a USR 33600 modem.

When playing against DOS versions of Command & Conquer, use the AT&F or AT&F1 initialisation strings on the DOS side when using a USR 33600 modem.

2.1.2. Modem Recognition.

C&C 95 performs best in a modem game with modem error correction and data compression disabled. This is done automatically in C&C 95 if you select an installed modem from the list on the C&C95 serial settings screen. For this to work correctly, Windows 95 needs to know about your modem so make sure it is recognized properly in the Control Panel/Modems dialog.

2.1.3. Modem Performance Hints

With music playing during a modem game, there is a possibility of pausing or very slow game play. For optimum performance, music volume under the options menu should be set to zero (far left), this is the default setting. The game speed should be satisfactory with sound effects on and music set to zero.

2.1.4. Baud Rate Setting

You should always select a baud rate of at least the speed of your modem unless you are experiencing difficulties connecting that fast. We recommend 57600 for 28800 modems and 19200 or 38400 for 14400 modems. In a null modem game, ensure that both players select the same baud rate before trying to connect.

2.2. Network Play

2.2.1. Novell Client32

C&C 95 may not detect the presence of IPX drivers if you have installed Novell Client32 for Windows 95. There is currently no known workaround other than to reinstall the Microsoft IPX protocol which is shipped with Windows 95.

2.2.2. THIPX32 DLL

C&C 95 uses a custom DLL file for network play. If you see an error message which mentions "THIPX32.DLL", you should reboot your system and start C&C 95 again. If the problem persists, you may need to reinstall C&C 95.

2.3. Windows 3.1 & Windows NT 4.0

Sorry, C&C 95 will not run under these operating systems.

2.4. Known Video Card Problems

Here are some hints and tips for specific video cards found while testing C&C 95 under Windows 95.

2.4.1. S3 TRIO video cards

We have noticed corruption on screen during both game and movies with some (but not all) examples of video cards with this chipset. There is no specific workaround but you should check with your video card manufacturer for updated driver information.

2.4.2. Screen distorts after installing Microsoft DirectX

We've found that video monitor settings may need to be adjusted after installing the Microsoft DirectX video drivers. If your screen distorts, or is shifted horizontally or vertically, you can return it to normality by adjusting the controls on your monitor. You should only need to do this once.

2.4.3. Unable to allocate primary video buffer

If you receive an "Unable to allocate primary video buffer - Aborting." error message try reinstalling the Microsoft DirectX drivers. If reinstalling the Microsoft DirectX drivers does not solve this problem, then that means that your video card manufacturer has not updated their video drivers to be Microsoft DirectX compliant. Call your video card manufacturer for updated drivers.

2.4.4. The game starts but I only see a black screen.

Try running the 'Command & Conquer Windows 95 Edition Setup' program from the Westwood program group and selecting 640x480 graphics mode. This should be compatible with more systems although you may notice a slight 'letterboxing' effect when using this mode.

## 2.5. Uninstalling C&C 95

After running the Uninstall program, if the C&C 95 group is still present, try rebooting your computer. This should clean up the C&C 95 start menu folder.

### 2.6. Virtual Memory Settings

C&C 95 may need to use more RAM than is present on your system. Windows 95 automatically takes care of this by using what is known as "Virtual Memory" - it uses space on your hard disk to simulate the memory it needs and swaps data back and forth from your hard disk as required. Windows 95 allows you to manually set the amount of hard drive space it uses for Virtual Memory: WE HIGHLY RECOMMEND THAT YOU DO NOT DO THIS! To let Windows 95 manage the Virtual Memory, go to the Windows 95 START menu, select SETTINGS\CONTROL PANEL, then double-click SYSTEM, click PERFORMANCE\FILE SYSTEM\VIRTUAL MEMORY and then select "Let Windows manage my virtual memory settings (recommended)".

#### 2.7. Microsoft PowerToys

If you have the Microsoft PowerToys system extensions installed on your system (including QuickRes and FlexiCD) you may experience excessive accessing of the CD followed by system lockup. If this happens, you should remove the MicroSoft PowerToys while playing C&C 95.

#### 2.8. Microsoft Home Mouse and Natural Keyboard

If you are using a Microsoft Home Mouse, the Microsoft Natural Keyboard or are using Microsoft's IntelliPoint Tools and Controls Software, having the "Sonar" setting on under "Visibility" in the "Mouse Properties" section in the "Control Panel" can cause C&C 95 to crash. Please turn this setting off when playing C&C 95. Using the 'point' feature of the Microsoft keyboard may cause mouse trails to be left on screen. Do not use this feature while playing C&C 95.

### 2.9. Autoplay

If your CD does not autoplay when inserted in the drive, you may have this feature disabled. To Enable autoplay, right click on 'My Computer' and select 'Properties' then 'Device Manager'. Select your CD-ROM drive and click 'Properties'. Select 'Settings' and check the 'Auto insert notification' box.

#### 2.10. 16 bit CD-ROM drivers

C&C 95 may fail to start if there is a 16 bit CD-ROM driver loaded from the AUTOEXEC.BAT or CONFIG.SYS. If you have references to MSCDEX or equivelent drivers then try removing them from your autoexec and config. WIndows 95 does not need these drivers to work and in some cases will actually perform better without them.

2.11. Microsoft Office Toolbar

If you make use of this feature of Microsoft Office and it appears over the game screen when playing C&C 95 then you will have to disable the Office Toolbar before playing.

2.12 Game or audio stutters after being paused

If the game is left in the paused state with the game options menu up for an extended period of time, performance may be reduced for a while after play is resumed. This is due to Windows 95 giving the games resources to other tasks while it is not being played.

2.13 Playing against DOS C&C patched to 1.18 or 1.19 There is a problem with playing a C&C 95 game against a C&C DOS game patched to version 1.18 or 1.19. This appears as an 'out of sync' error when a player resigns. This can be resolved either by downloading the latest patch for the DOS version from our web site (WWW.WESTWOOD.COM) or alternatively, force both C&C95 and the 1.18/1.19 DOS C&C into their version 1.07 DOS compatibility mode. This is done by placing a -O parameter on the command line for DOS. To put C&C 95 into v1.07 compatability mode, run the setup program from the start menu and and select the 'Compatible with DOS v.107' option.

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3. Game Updates and Patches

If it becomes necessary to update your game, you can find game updates on our web page at http://www.westwood.com or at our FTP site (ftp.westwood.com). Please mail all questions to our internet mailing address: mail@westwood.com

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- 4. General Gameplay Information
  - 4.1. Chart for Creation of Units

Here's a chart for the creation of units in Command & Conquer. The number in parenthesis next to the unit number is the tech level required in multiplayer mode.

	GDI UNIT	TECH I	JVL		PREREQUISITE	
     	Minigun Infantry Grenade Infantry Rocket Infantry Engineer	+     	1 1 2 3	   	Barracks Barracks Barracks Barracks	
İ	Commando*		7	į	Barracks, Advanced Comm Center	į
	APC		2 4		Weapons Factory Barracks, Weapons Factory	
	Medium Tank MRLS	 	3 7		Weapons Factory Weapons Factory, Adv. Comm Center	
	Mammoth Tank		5		Weapons Factory, Repair Bay	

Chinook*	1	6	Weapons	Factory,	Helipad	
Orca	1	6	Weapons	Factory,	Helipad	
MCV	1	7	Weapons	Factory,	Adv. Comm Center	
Harvester	1	2	Weapons	Factory,	Refinery	
Ion Cannon	1	7	Adv. Cor	nm Center		I
 			 			-

For NOD units...

NOD UNIT	TECH LVL	PREREQUISITE
<pre>  Minigun Infantry   Rocket Infantry   Flamethrower Inf   Engineer   Chem Warrior*   Commando*   Nod Buggy   Recon Bike   Light Tank   Artillery   Flame Tank   Stealth Tank   Chinook*   Apache*   MCV   Harvester   Nuclear Strike   SSM Launcher*</pre>	1         1         2         1         3         7         7         2         2         3         6         4         5         6         7         2         3         7         7         7         7         7         7         7         7         7	Hand of Nod         Hand of Nod         Hand of Nod         Hand of Nod         Hand of Nod, Temple of Nod         Airstrip         Airstrip         Communications Center, Airstrip         Helipad, Airstrip         Helipad, Airstrip         Weapons Factory, Temple of Nod         Weapons Factory, Refinery         Temple of Nod         Temple of Nod, Airstrip, Obelisk

\* Available in multi-player missions only. May be available in single player missions as unit given to you at start of mission or as a mission objective for capture.

#### 4.2. Chart for Creation of Structures

This chart details what the requirements are to build structures in C&C. Note that in single player missions, you may not have access to advanced buildings until later in the game.

GDI STRUCTURE	TECH LVL	PREREQUISITE
<pre>  Const. Yard   Power Plant   Barracks   Refinery   Tiberium Silo   Guard Tower   Adv. Guard Twr   Weapons Factory   Repair Pad   Comm Center   Adv. Pwr Plant   Adv. Comm Cntr   Helipad   Sandbags   Chain link Fence   Concrete Wall</pre>	1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         1         2         1         2         1         1         1         1	<pre>None (all buildings require this)   Construction Yard   Power Plant   Refinery   Barracks   Communications Center   Power Plant   Refinery   Power Plant   Refinery   Barracks   Communications Center   Barracks   Construction Yard   Construction Yard   </pre>

For NOD structures..

NOD STRUCTURE	C   TEC	H LVL	PREREQUISITE	I
Const. Yard	+ <b></b>	1   No:	ne (all buildings require this	)

	Power Plant	1	.		Construction Yard
	Hand of NOD	1	.		Power Plant
	Refinery	1	.		Power Plant
	Tiberium Silo	1	.		Refinery
	Turret	2	2		Hand of Nod
	SAM Site	6	5		Hand of Nod
	Airstrip	2	2		Refinery
	Repair Pad	5	5		Power Plant
	Comm Center	2	2		Refinery
	Adv. Pwr Plant	5	5		Power Plant
	Temple of NOD	7	1		Communications Center
	Helipad	6	5		Hand of Nod
	Obelisk of Light	4			Communications Center
	Chain link Fence	1	.		Construction Yard
	Concrete Wall	1	.		Construction Yard
I	Sandbags	1	.		Construction Yard

4.3. Description of Crate Contents in Multiplayer Mode

Here is a brief explanation of the contents of crates in multiplayer mode.

MONEY	Random.	Can	be	in	any	amount	up	to	\$2,000.	
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NUKE MISSILE	Equivalent	of nuclear	strike	using	Temple
	of NOD. On	e shot only	•		

- REVEAL MAP Uncovers the entire map for the player. This applies to the radar screen, as well as the onscreen map.
- STEALTH Will stealth any unit that discovers this crate, as well as all units and structures within a 50 foot radius.
- EXTRA UNITS Random. Can be any GDI or NOD unit.
- HEAL ALL Heals all of your units and structures to 100% health.
- ION CANNON Equivalent of ion cannon using the Advanced Communication Facility. One shot only.
- NUKE STRIKE Directs a Nuke Strike against the location of the crate retrieved. Very bad.
- BOMB Explodes on contact. Not good.
- HIDE MAP Hides the entire map, except for your units.
- VISCEROID Releases a Tiberium-spawned Visceroid into the playing field. Attacks randomly.

If your base is completely gone, there's a chance you can make a quick comeback! You must have at least \$2,400 and no structures of any kind left on the map. There is an excellent chance that the next crate you find will contain an MCV.

4.4. Building a Nuclear weapon in NOD single player missions.

In C&C 95 there is no need to collect the crates on missions 6, 8 and 12 to be able to use the Nuke in the final NOD battle.

5. Installing the Command & Conquer Theme Pack.

#### TO INSTALL:

From the autoplay menu, select 'Explore the CD' and run the setup program inside the Themes folder. When complete, the themes control panel should appear, allowing you to select one of the three new C&C themes.

YOU MUST HAVE THE PLUS PACK TO MAKE THE ENTIRE THEME WORK! If you don't have Plus!, you can add the mouse pointers, backgrounds, and sounds by hand (from the control panel). Sorry, the colors will be inaccessible, though :(

Note that these themes will ONLY work in 16Bit (high) color or above! There aren't enough colors available in a 256 color palette to cover windows colors and our C&C palette... without a lot of time invested in re-mapping, that is.

There are 48x48 and 32x32 sizes for all the icons, so if you use "large icon mode", you'll see the icons in even more detail. There are also two versions of many of the icons (ie. C&C Airstrip and C&C Airstrip II). The first version is the entire object, and the II's are cut-pieces that maintain the scale. The II's are easier to view at higher resolutions.