

Vega Strike

PLAYER'S GUIDE



3D OPENGL SPACEFLIGHT SIMULATOR



1 Title Page

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With contributions from the Vega Strike community



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3 Dedication

This Player's Guide is dedicated to Daniel 'Hellcatv' Horn and the Vega Strike development team for bringing us the Vega Strike game; to the coders, artists, designers and play-testers willing to devote their own time and effort to the creation of a great game; and of course the players of Vega Strike, without whom this whole thing would be a pointless exercise.



4 Introduction

WELCOME to *Vega Strike*, a 3D OpenGL spaceflight simulator developed for multi-platform play.

Vega Strike allows players to explore a vastly dynamic universe where frontiers collide and you're just a pilot trying to make ends meet. How? That's your decision. Vega Strike is designed as a non-linear gaming experience, where you choose what action you want to take.

Vega Strike features a dynamic trading economy, allowing your character to operate as a merchant. Discover what trade routes bring in the most profit, what commodities make you the most money given your ship's cargo space limitations, accept cargo missions and learn to avoid areas of danger (repairs do eat into one's profits!).

If you tire of making money on milk runs, or just want to try something different, then there are other paths to success. Vega Strike features a mission generator, providing multiple missions to the experienced (and not so experienced) pilots. Engage in bounty hunts, patrols, battles and escort missions. Feel like traveling? Explore the dynamic universe and see the farthest reaches of known space. Want a walk on the wild side? You could always turn pirate! Just be prepared for the consequences.



Your ship just not doing the job you want it to? Vega Strike gives you the ability to purchase from a wide variety of ships capable of doing different jobs. Want to haul cargo? Fight battles? There's a ship for you. Your ship is fully customizable, so if you've got the credit, outfit your craft with the right tools for the job at hand.

Have a chat to the bartender or view the news broadcasts to find out what's going on in the universe. While you're there, talk to the fixers, they may have a job that only you can do. But be warned, you never know where it may lead...

Figure 1 Winner of the Jeux (games) category of the Trophées Du Libre 2003.

5 The Lead Developer's Mission Statement

5.1.1 What is Vega Strike?

Vega Strike is an Open Source 3D Space Simulator. Currently in Beta development, the project, at version 1.0, is to be a generic space simulator. Current features include split-screen play, trading, exploration and of course plenty of shoot 'em up action.



5.1.2 Why Vega Strike is important to Open Source Software

Hello folks, this is Daniel Horn, the lead developer from Vega Strike speaking (you can e-mail me at hellcatv.users.sourceforge.net (where the space is really @)). I attempt to answer all e-mails I get; however, occasionally one gets missed or something. If I don't answer right away feel free to mail me again...it is in my interest to answer every soul who messages me. Or post on the forum so that my answers can be seen by the world!

Vega Strike is a fully functional, commercial quality space simulator under the GPL. I have always felt the importance of working together on large projects, and I feel it is so important that developers work together and build on what everyone has accomplished instead of just what one person has accomplished.

Vega Strike is important because there are not many complete-feeling games in the Free Software area. Most games have a few levels and limited game play that can last an hour, yet Vega Strike has an entire universe of unique star systems and space phenomena along with plot fragments and things to do. If someone spent the time discovering the systems and secrets within they could easily spend weeks flying through star systems. Some users tire of such game play quickly, but some love the unbridled freedom that Vega Strike offers (and interesting things that one can learn to do).

Being the Lead Developer I am normally modest; however, being a Free Software advocate I must declare that Vega Strike has a commercial quality engine with said game play, and is moving towards commercial quality art at this point. Many people comment how art from other games simply looks cleaner and better when they try it in Vega Strike with the unique reflection engine and unheard of floating point precision. You do not need a greedy company to make quality software I believe. The main thing Vega Strike lacks is an easy way for a beginner to catch on and learn how to explore the region of space around (to simply fly there would take days; the user must use autopilot and F9 and F10 to compress time). However this will be the focus of the next release.

My goal for Vega Strike was to have a centrally modified developer tweaked Vega Strike that had a large developer and artist base with which to improve.

Many programmers come to the Vega Strike site and scoff saying 'FreeSpace 2[®] has prettier art and is Open Source as well'. However FreeSpace2[®] is NOT Open Source--it is under a restrictive license that could corner someone into the receiving end of a lawsuit if that person looked at the code and copied the techniques into Vega Strike for instance (people often demand that I add the 'Free Space Nebula effect' to Vega Strike; however, I will only add a DIFFERENT (VS has one) nebula effect if a developer or myself comes up with an original effect!).

Vega Strike started out on my hard drive as more or less a copy of Wing Commander[®] (new engine of course), complete with Origin's beautiful art and wholesale IP borrowing for the factions. However when I decided to publish Vega Strike on the web, my soon-to-be friend and helper Alexander Rawass reminded me about the importance of Open Source software having original artwork and completely free source code. This led me into modeling many models with only Emacs (a text editor) and graph paper. Eventually I had enough (now 30 flyable ships!) for the actual game.



Slowly other artists started contributing art to Vega Strike, and I assured that there was no trace of IP left in the data tree of Vega Strike. I continue to assure this by not viewing the code of the Volition-owned FreeSpace2[®] engine.

For more information about Free Software and the Free Software Foundation, GNU and their licenses, Open Source or free software in general you can visit <http://www.gnu.org/fsf/>.

5.1.3 The Game: Vega Strike

As you play, you will see that there are three main races present in the game: The Aera; Rlaan; and Humans (The Confederation, or Confeds). For some background you can read the Fiction included with the data files (recently greatly expanded!) and you can also mosey along over to the Database <http://vegastrike.sourceforge.net/phpwiki/index.php/VsManualDatabase>, containing information on ships/stats/species/terms. Both of these things (the fiction and the website) are under heavy development at the moment and so are not currently incorporated into the website, but they will get better and more complete with time.

5.1.4 Developer Contributions

Would you like to contribute to Vega Strike and become a developer? Great! Just send us an email about yourself, with you skills (or lack of **J**) and what you would like to do. **YOU DO NOT HAVE TO KNOW CODING!** We desperately need people to do many other things as well --documentation, artwork etc. If you would like to help, or would like to find out more about the project first, then go to our <http://vegastrike.sourceforge.net/forums/> and ask any questions you might have, what you can do, what needs to be done, etc.



6 GETTING STARTED



6.1 Acquiring the Program

To begin playing Vega Strike, you will first need the program. You can obtain the program in one of four ways:

- Download the appropriate release file for your system from the **Vega Strike Files** (<http://vegastrike.sourceforge.net/files/index.html>) page. These files are the latest available stable release versions of the Vega Strike program.
- Purchase the CD from websites. The CD contains the downloadable stable release versions for all platforms, as well as various extras. Following is a current (non-exhaustive) list where you can purchase the CD from:
 - US & International **Cafepress.com** <http://www.cafeshops.com/vegastrike.7992843>
 - Also in the UK **Largedownloads** <http://www.largedownloads.co.uk/vegastrike.html>
- Checkout (download) a copy of the latest data tree under the Concurrent Version System (CVS), which contains updated data and recently compiled program files.
- Checkout (download) the source code and data for Vega Strike under CVS, and compile the program yourself.

Instructions on how to perform the last two actions are located at this site: <http://vegastrike.sourceforge.net/phpwiki/index.php/VegastrikeHowtos>. These instructions obtain unstable developer's versions of the program, but contain all the latest features (and bugs!)

6.2 Installing the Program

This manual was written to the Windows version of Vega Strike. The concepts and commands used herein, however, should be generally applicable to all platforms. Where there are differences, or points that have not been addressed, please forward that information to the author, the editor or report on the Vega Strike forum for inclusion in future manual updates.

6.2.1 Windows Installation

1. Vega Strike is packaged in a self-installable, executable program. Locate this file (either from your download or on the CD);
2. Double click on the program self-installer file. It will begin verifying the installer (be patient, this will take a short while);
3. Read the License Agreement (a copy can be accessed online at the website, as well as in the program directories);
4. Select which components to install. Note that the Vega Strike files are required to play Vega Strike, and the Music files are recommended for full immersion in the game;
5. Select the directory to which you want to install Vega Strike;
6. Click Install. You will see the installer program extracting and installing all the necessary files and accessory programs to launch, configure and run Vega Strike.



6.2.2 GNU/Linux Installation

(ED: to be updated)

1. Install the rpm/deb/tar files or compile the source;
 2. Run vsinstall from the terminal.
-

6.2.3 Mac Installation

(ED: to be updated)

1. Drag VegaStrike.app to the Applications directory;
 2. Double Click on VegaStrike.app.
-

6.3 Configuring Vega Strike

6.3.1 Windows/Linux Configuration

To configure Vega Strike for your system, you need to access the configuration settings:

1. Run the Launcher program and select Game Settings;
 2. Directly open the program file Launcher.exe (Windows) or vslauncher (Linux);
 3. Directly editing the vegastrike.config file (recommended only for advanced use).
-

6.3.2 Mac Configuration

1. ctrl-click or right-click the Vega Strike application
 2. choose Show Package Contents
 3. Navigate to the Contents/Resources/data/ subdirectory.
 4. It's useful to drag an alias of this directory to your desktop while you're editing Vega Strike.
-

6.4 The Launcher

6.4.1 Launcher (Windows/Linux)

For ease of use, Vega Strike uses a configuration program to load missions, create new games, loads saved games, and configure Vega Strike. Both Windows & Linux operating systems use this program, with the only difference being the name (Launcher for Windows and vslauncher for Linux).

To load the Launcher in Windows, either go to Start Menu, Vega Strike menu and select Launcher or navigate to the 'bin' subdirectory and double click on Launcher.exe; in Linux run vslauncher from the terminal.

The **Launcher** program offers the following choices:

Start New Pilot

To start a new pilot (game) in the Vega Strike universe, select this button. If no scenario has been selected beforehand (below), this button loads the default Exploring the Universe scenario.



Play Saved Pilot

This button loads the selected saved pilot to load into Vega Strike.

Continue Last Game

This button loads your last saved pilot automatically into Vega Strike. If you do not choose a mission, you will start in the standard trading/bounty hunting mission. Differs from Play Saved Pilot in that you do not choose which saved game to load.

Game Settings

This button accesses Vega Strike's game settings for configuration.

Recover from Autosave

This button allows a player to recover their most recently played game into the selected save game upon next run. If the player quits or the player docks, and then dies, it will restore to the last saved position.

Change Scenario

This allows you to select which Vega Strike scenario to play. To select, highlight the requested scenario and click "OK". Once selected, you start the scenario by selecting Start New Pilot. Most scenarios do not involve save games and will ignore those options. Note that the default scenario will utilize the save game you specify. If you ignore this option you default to the standard Exploring the Universe scenario.

Help

Pop up help window with this information.

Exit Launcher

Selecting exit closes the launcher.



Figure 2 The Launcher



6.4.2 Basic Configuration Settings

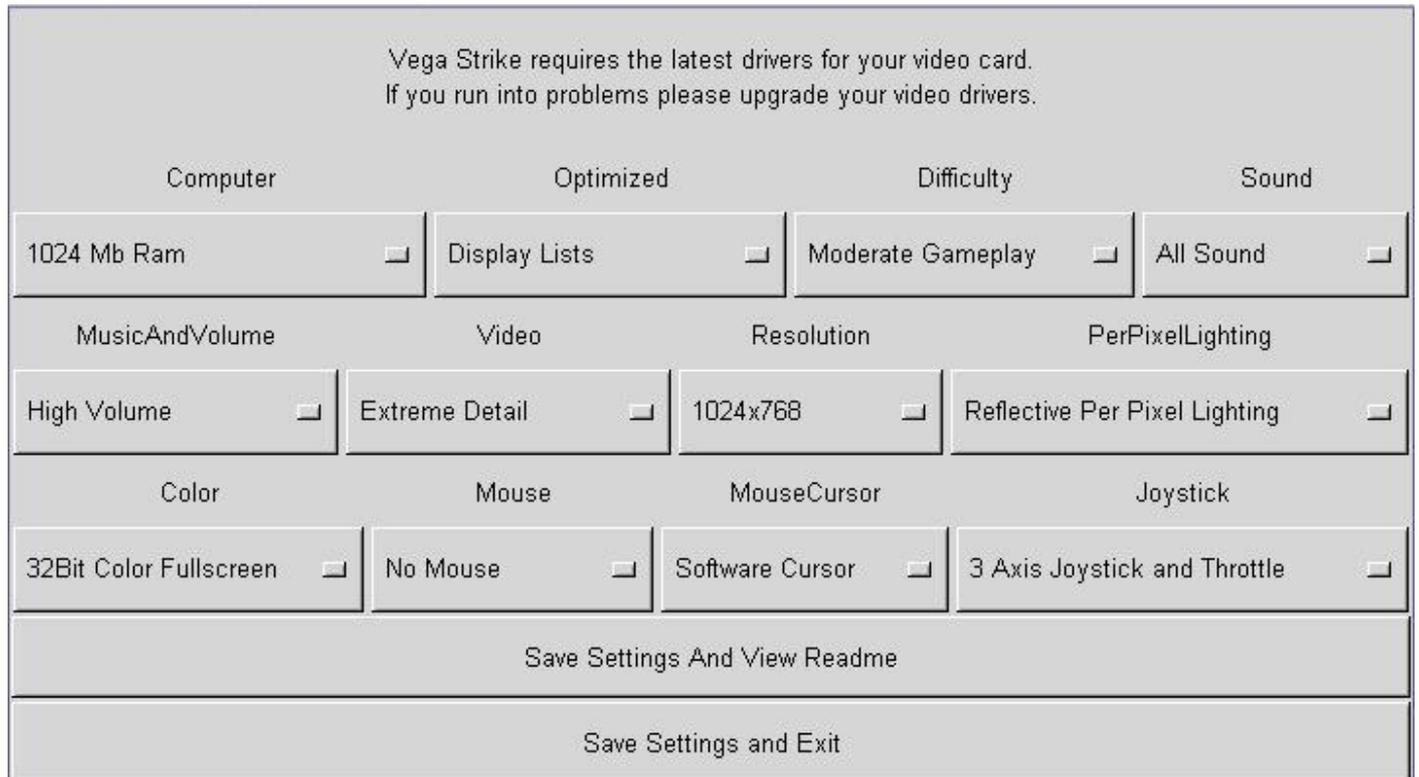


Figure 3 The Game Settings Screen

Computer

This selection specifies the available RAM on your system for use by Vega Strike. Determines:

- maximum number of sounds possible at any one time
- number of systems' data (objects, names etc) cached in RAM and background simulated
- number of systems' data (objects, names etc) stored to hard drive for reuse

"<256 Mb RAM"

Low number of available sounds; limited systems caching for simulation in RAM and storage of systems data to the harddrive; simulated frame speed is very low; only plays a single looped weapon sound.

"256 Mb RAM"

Similar to above but simulated frame speed is slightly faster.



"512 Mb RAM + 256 Mb Swap"

Reasonable number of available sounds; more systems data is saved to the harddrive; simulated frame speed dramatically improved; plays multiple weapons sounds on a sound per blast basis.

"512 Mb RAM + 1Gb Swap"

High number of available sounds, increased systems caching in RAM for simulation and more systems data saved to the harddrive; Slight increase in simulated frame speed.

"1024 Mb RAM"

Large number of systems data now saved to the harddrive for reuse and slightly faster simulated frame speed.

Optimized

Determines how Vega Strike draws objects. Display Lists is the recommended choice. Only if you suffer from video driver code crashes, should you select Compiled Vertex Arrays, and if problems persist, choose Vertex Arrays.

Difficulty

This selection determines the degree of difficulty in-game.

"Decelerated Game play"

- Game Speed is .5 normal
- Game Acceleration 2.125 times normal

"Relaxing Game play"

- Game Speed is normal
- Game is Acceleration normal

"Moderate Game play"

- Game Speed is 2 times normal
- Game Acceleration .5 normal

"Hasty Game play"

- Game Speed is 4 times normal
- Game Acceleration .225 normal

"Insane Game play"



- Game Speed is 8 times normal
- Game Acceleration .12 normal

"Impossible Game play"

- Game Speed is 16 times normal
- Game Acceleration .045 normal

Sound

Determines what generates sounds in Vega Strike. Note that Linux Sound settings are for Linux. The others are Windows settings. Windows settings provided a higher volume level.

- Ø "No Sound" - No sound files played. Recommended when game performance is slow.
- Ø "My Sound Only" - AI sound is deactivated; Sounds originate from you and your ship only.
- Ø "All Sound" - AI sound is activated
- Ø "My Linux Sound" - AI sound is deactivated; Sounds originate from you and your ship only.
- Ø "All Linux Sound" - AI sound is activated

Music And Volume

This is the initial setting for your music volume. This setting can also be adjusted in game.

- Ø "High Volume" - To give you loud, dramatic music!
- Ø "Medium Volume" - For enjoying the music but without it being intrusive.
- Ø "Low Volume" - Suitable setting for having music playing in the background.
- Ø "Music Off" - Does not load the soundserver to play music. Recommended when game performance is slow.

Video

This selection determines the level of visual detail Privateer Remake projects to your monitor. These settings affect smoothness and rounding of objects, font style and anti-aliasing, sun halos, maximum texture size capability and whether reflection capability is available.

- Ø "Extreme Detail" - Highest detailing available including full smoothing, halo, texturing and reflection capability available. Cockpits can be activated. Only high end video cards should use this setting without affecting performance.
- Ø "Very High Detail" - The main difference is a large reduction in the level of visual detail.
- Ø "High Detail" - Further reduction in visual detail, and reduced lighting capability.
- Ø "Medium Detail" - Visual detail reduced with nebula fog disabled.
- Ø "Low Detail" - Reduced visual detail with no background detailing (black only) and cockpits no longer available. All script is in reduced font size with no color differentiation. Light reflection is disabled with no haloing effects.
- "Retro Detail" - Lowest detail with no texture usage (wireframe only).



Resolution

This selection sets the Video Resolution for Vega Strike to use. It should be set to equal or slightly lower than your normal screen/monitor resolution. Please note the larger the resolution, the more processing power is needed.

Per Pixel Lighting

Determines the visual lighting effects used by Vega Strike. Going down the list increases visual effects, but requires better hardware.

- "No Specular Lighting" - This option is suggested when game performance is slow.
 - separate specular color: no
 - per pixel lighting: no
 - reflection: no
- "Specular Lighting" -
 - separate specular color: yes
 - per pixel lighting: no
 - reflection: no
- "Specular Per Pixel Lighting" - Recommend a high end graphics card.
 - separate specular color: no
 - per pixel lighting: yes
 - reflection: no
- "Reflective Lighting" -
 - separate specular color: yes
 - per pixel lighting: no
 - reflection: yes
- "Reflective Per Pixel Lighting" - Recommend a high end graphics card.
 - separate specular color: yes
 - per pixel lighting: yes
 - reflection: yes

Color

This selection determines whether the game uses full 32 bit coloration or the more limited 16 bit color range. It also determines whether the games runs in full screen mode (uses your whole screen limited by your resolution setting) or is windowed (appears in a window on your monitor allowing you access other programs).



- Ø "32 bit Fullscreen" – 32 bit color viewed in a full screen. Note that eMac users might not be able to use this setting.
- Ø "16 bit Fullscreen" – Reduced 16 bit color viewed in a full screen. Note that eMac users might not be able to use this setting.
- Ø "32 bit Windowed" – 32 bit color with the game viewed in a window.
- Ø "16 bit Windowed" – Reduced 16 bit color with the game viewed in a window.

Mouse

This selection determines your mouse control during flight operations.

- Ø "Mouse Warping" – Your craft turns in the direction of the mouse movement, but the turn only continues while you mouse moves. To continue a turn, you need to continue scrolling your mouse in the desired direction.
- Ø "Inv Mouse Warping" – inverts the direction of "Mouse Warping"
- Ø "Mouse Glide" – Provides a 'ghost' targeting reticule that is movable around the screen. When moved away from the center, your ship will turn in the direction of the reticule. Re-center the reticule to cease turning. This option does not require continually moving the mouse to continue a turn.
- Ø "Inv Mouse Glide" – inverts the up/down direction of "Mouse Glide"
- Ø "No Mouse" – No mouse flight.

Mouse Default Button Settings

- Ø button 0 = Fire Weapon
- Ø button 1 = Fire Missile
- Ø button 2 = Afterburner
- Ø button 3 = Target (cycle all available targets)
- Ø button 4 = Target (target nearest targeting reticule)
- Ø button 5 = Deceleration (decrease speed)
- Ø button 6 = Perform a Shelton Slide
- Ø button 7 = Acceleration (increase speed)
- Ø button 8 = Cycle through guns
- Ø button 9 = Cycle through missiles

Mouse Cursor

This selection determines whether the mouse cursor is software or hardware driven. Note that non-*n*VIDIA cards such as 3dfx, ATI and ATI Rage cards often do not show the cursor in software mode.

- Ø "Software Cursor" – This should be the default setting. Cursor should appear at bases, and disappear in flight.
- Ø "Hardware Cursor" – Select this option where the cursor is not appearing when at a base at all.



Joystick

This selection configures your joystick for flight control. Joysticks can also be programmed directly by direct editing the `vegastrike.config` file – recommend for advanced use only. Joysticks with multiple buttons default to the button selection below.

- "No Joystick" – No joystick flight enabled.
- "2 Axis Joystick" – Enables a standard 2 axis (x,y) joystick with two buttons (0,1).
- "2 Axis Joystick And Throttle" – Enables movement in the x,y directions only. Throttle control over your set speed. Two buttons (0,1).
- "3 Axis Joystick" – Enables movement in all three directions.
- "3 Axis Joystick and Throttle" – Enables movement in all three directions, plus the use of a throttle. Currently, throttle control gives acceleration and deceleration, not speed control. Result: set speed is either maximum or zero.
- "Joystick and Throttle Reversed" – Reverses the setting of third axis and throttle.

Joystick Default Button Settings

- x axis = changes direction of pitch. Imagine holding your arms out sideways from your body and your hands holding on to something. You then swing your feet up and down. You are rotating on your arms (x axis).
- y axis = changes direction of yaw. Imagine standing upright, then turning in place to the left or right.
- z axis = changes direction of roll. Imagine standing upright, holding on to a pole above you running from forwards to backwards. You then swing from left to right. You are 'rolling' around the pole.
- button 0 = Fire Weapon
- button 1 = Afterburner
- button 2 = Fire Missile
- button 3 = Target (cycle all available targets)
- button 4 = Target (target nearest targeting reticule)
- button 5 = Deceleration (decrease speed)
- button 6 = Perform a Shelton Slide
- button 7 = Acceleration (increase speed)
- button 8 = Cycle through guns
- button 9 = Cycle through missiles

6.5 Launching Vega Strike

6.5.1 Launching Vega Strike from the Command Line

Vega Strike can take a single command parameter indicating which mission it should load:

Example: `.\vegastrike mission/explore_universe.mission` is an example of a valid mission call.

The `-j` flag (must be flush with the system) will force a player to begin in a star system:



Example: `.\vegastrike -jvega_sector/vega_mission/n_vs_n/confed/confed_2v2.mission` will force the 2v2 mission to run in the Vega sector.

6.5.2 Launching Vega Strike in Windows and Linux

1. Load the Launcher program;
2. To begin play, click on "Start New Pilot". Enter the name you wish to call your new game. This will create a new set of folders to which the new name is attached;
3. Click "OK" and Vega Strike will launch. Please note that with the first launch, Vega Strike generates BSP trees for the system - this could take several minutes. Subsequent launches should be quicker.

The default mission (`explore_universe.mission`) is recommended for an introduction to the Vega Strike dynamic universe. To play this mission, you do not need to choose 'Select Mission' from the **Launcher**; a new game will automatically default to this mission.

As a final note, you can sometimes "drag and drop" the mission that you want to play onto the Vega strike executable (not the launcher, but the `vegastrike.exe` itself).

6.5.3 Launching Vega Strike for Mac

(ED: to be updated)

As `.\vegastrike` is a hidden directory, Mac users should do the following:

- In the finder choose Go To Folder from the Go menu;
 - Type `./vegastrike` to open the `vegastrike` folder in a Finder window;
 - Drag the folder from the title bar of the Finder window while holding down the alt and command (apple) keys to make an alias of this folder on your Desktop.
-

7 ON THE BASE





As you read through this manual, you will note references to various keys. These key references appear within brackets e.g. [w] refers to the w key; [W] refers to the capitalized letter. [CTRL+w] refers to pressing both the Control and w key simultaneously. References to [KP] refer to using the buttons on the keypad. Buttons appearing onscreen are noted in a similar fashion.

7.1 The Concourse

7.1.1 Landing Pad

On first starting Vega Strike, the first in-game screen you will see is the Landing Pad. On first landing at a base, the Landing Pad will usually be your first view of the base. Note the ship located in the foreground. This is your current ship. At the beginning of play, this ship is the Llama; a good, general all-round cargo hauler capable of defense and limited offense.

The Landing Pad is the player's portal into the base, and is the screen to be in when intending to launch from the base.

The Landing Pad serves two functions:

- Access to the base. Moving the cursor will eventually highlight the Concourse exit. Clicking on the location highlighted will take you to the Concourse screen.
- Launching. The Landing Pad displays your current ship. To launch into space, double-click the left mouse button on the ship.

7.1.2 Concourse

On arrival at a base, station or planet, most pilots will want to perform any number of various functions. These functions include browsing for new missions, replacing or upgrading weapons and ships, trading any cargo they happen to be carrying in their holds, or just having some rest and recreation. The Concourse serves as the primary interface to all other base locations. A newly arrived pilot can find it all starting from the Concourse.

The usual locations are:

- **Cargo Computer** (p24) - to buy and sell cargo.
- **Mission Computer** (p26) - to select missions and view the latest news.
- **Weapons Room** (p30) - to upgrade your ship, purchase a new ship and view character information.
- **The Bar** (p35) - have a drink, chat to the locals and view the latest news.

You may also find uncommon and rare locations, viewable just for the scenery or which may have bearing on a mission you might be undertaking...

Lastly, be aware that some bases integrate the Landing Pad with the Concourse. Where this is the case, all operations can be performed in the Concourse.



7.2 Trading Cargo

One of the main aims of a Vega Strike pilot is to make a profit. While there are several different ways in which to do so, we consider here the ability to make a profit from buying and selling cargo that you transport.

In the Vega Strike dynamic universe, a single merchant pilot with a small amount of credit and a good ship can try to make money trading cargo. This is usually accomplished by buying from their current location, and then delivering it to a destination that is far away, has a need for it, or preferably both. Another way to make money as a merchant is to accept Cargo Missions (p28), which pay a premium for delivering specific cargoes to specific destinations (these missions are covered elsewhere).

The secret to maximizing profits is to learn where a commodity is produced at a low cost, and where that commodity can be delivered for a high price. The use of common sense is recommended for determining what likely trade routes for various cargoes are. For example, a common trade run is to buy raw materials (gems, metals and suchlike) from mining locations (Asteroids) and deliver them to places that can use them (refineries, factories and industrial planets).

The key is to determine what trade routes and what cargoes provide the most profit - and the only way to work this out is by actually transporting cargo. When you are looking at the various cargoes at a base, have a look at the prices listed for other cargoes. You may well discover a new trade route if you're careful!

Lastly, pay attention to the news broadcasts. While the news is often full of battles, the occasional nugget of information will surface. These news reports often note shortages of goods in specific locations, or surpluses of goods in other locations. As you would expect, surpluses will result in a lower price and high availability of the cargo, and shortages in the reverse. Of course, making a delivery may be a problem...

Just imagine the profit you make if you discovered a good trade route, and the news reports had a surplus of cargo where you need to buy, and shortage where you need to sell!

7.2.1 Cargo Computer

To be able to trade cargo, you must have access to a Cargo Computer. Locate the Cargo Computer by moving your mouse cursor around the Concourse until it is highlighted and the name appears at the bottom of your screen (you may not find one, as not all bases have the access required. The Cargo Screen may be accessible from the Mission Computer (p26) in this case). Once this occurs double-click to activate the computer. Your view will change to the Cargo Screen.

7.2.2 Cargo Screen

The Cargo Screen, as with all other computer screens, will have the following across the upper viewing area: the title 'Cargo Dealer', followed by the type of your current base location, with the owner's name in brackets beside it. Below that your total available credits are shown. Beside your credit record is a record of your cargo hold showing total cargo volume of the hold and cargo volume remaining after cargo and upgrades.

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Do not be alarmed if you have no cargo on record, but cargo space available appears as less than your total cargo hold. There are two reasons for this. Firstly, ship upgrades not attached to the ship take up room in your cargo hold. Secondly, if you have failed a cargo mission, you may still have the cargo, but as it is mission cargo, it is not available for general resale. To clear failed mission cargo, refer to page 28.

In the top right corner of the Cargo Computer are the **[Save/Load]** and **[Done]** buttons. The **[Done]** button exits the Cargo Computer.

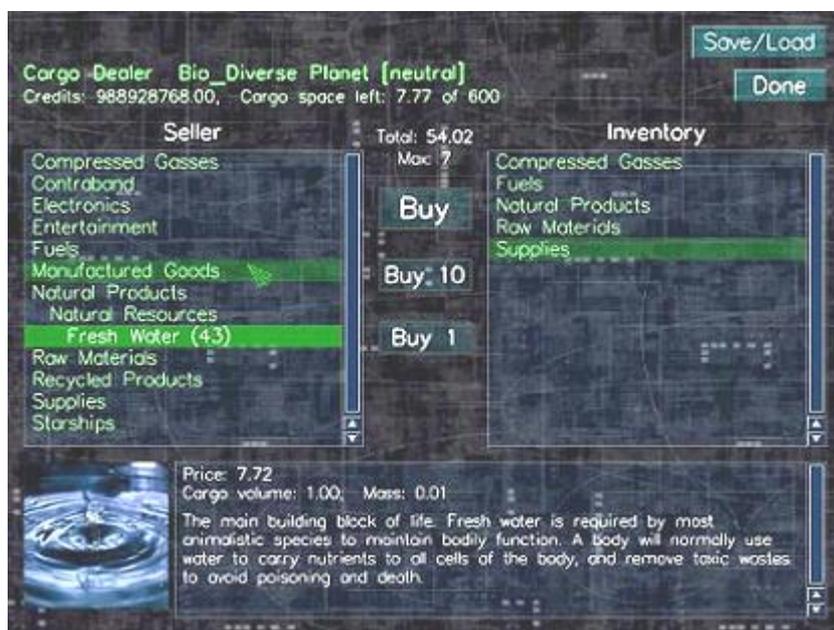


Figure 4 The Cargo Screen

In the centre of the screen are two large boxes, separated by three small buttons in between. These are the Cargo Purchase (left) and Cargo Sale (right) boxes. To operate, select (highlight) a category of cargo. Each category opens out into a selection of cargo, and/or further subcategories of cargo.

Continue selecting until your required cargo is highlighted. The three central buttons will now show as **[Buy/Sell]**, **[Buy/Sell 10]** and **[Buy/Sell 1]** - they show buy if you are highlighting in the left box, and sell when in the right box. **[Buy/Sell 1]** transacts 1 unit of highlighted cargo each time. **[Buy/Sell 10]** transacts 10 units of highlighted cargo at one time. **[Buy/Sell]** transacts all highlighted cargo. Each transaction moves the transacted cargo from one box

to the other. **Total:** displays the total *cost* to purchase, or total *cost* of what you are selling. **Max:** displays the total cargo you may purchase where cargo space is less than amount available. Total cost is then limited to maximum number by purchase price.

The box at the bottom of the screen displays cargo specific information. At bottom left is a picture of the selected cargo, while the large box generally includes the name, price, mass, cargo volume and description of the cargo. When selling cargo, the description box displays both the purchase and sale price. This allows a quick determination of any possible profit on the trade.

Different planets or bases will have different prices and quantities for groups of items. For example, Mining Bases will have cheaper minerals.

IMPORTANT! Do NOT purchase from the "upgrades" or "star ships" categories in the Cargo Screen if you want to buy a ship for piloting or to upgrade your current ship. Any trading from this screen will place those items in your cargo hold, not install onto or replace your current ship.



7.3 Mission Computer

On arrival at a base, station or planet, most pilots want to perform a number of various functions. These functions include browsing for new missions, replacing and upgrading weapons and ships, and lastly, trading any cargo they happen to be carrying in their holds.

We focus here on the Mission Computer. To review any available missions or get an update on the news, you must have access to a Mission Computer. Locate the Mission Computer by moving your mouse cursor around the Concourse until it is highlighted and the name appears at the bottom of your screen (you may not find one, as not all bases have the access required. The News Screen is also accessible from the Bar). Once this occurs double-click to activate the computer.

The Mission Computer will have the following across the upper viewing area. In the top left will be two buttons marked **[News]** and **[Missions]**. If either or both don't appear, that means the base where you are located does not have access to that function at that time. These buttons provide access to the News Screen and the Missions Screen respectively. By default, the News Screen will appear when the Mission Computer is accessed.

Below these buttons is the GNN News banner. Beside the banner is the name of your current base location, with the owner's name in brackets beside it.

In the top right corner of the Mission Computer are the **[Save/Load]** and **[Done]** buttons. The **[Done]** button exits the Missions Computer.

7.3.1 News Screen

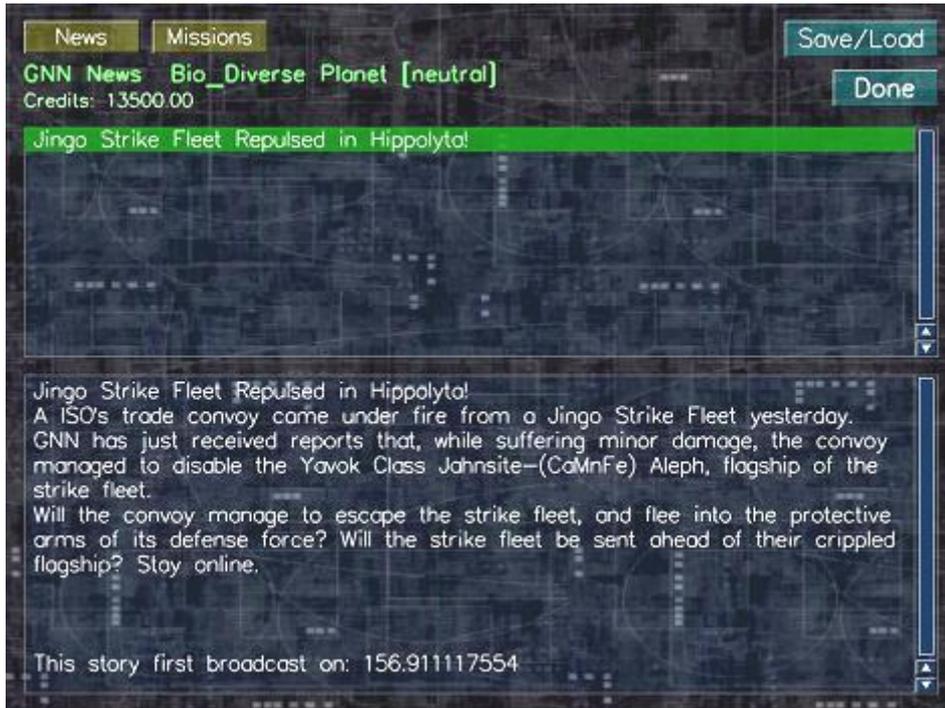
No civilization operates in a silent void. Whether passed on as gossip, town crier, old fashioned print or the most modern of holo-vid casts, notice of what's happening around the universe is always welcomed.

Most holo-vid casts provide the most basic of information, and are normally not of that much use to a pilot on the make. Keeping an eye on the news can, however, result in gains when a pilot stays well informed. Knowing of trade opportunities as soon as they occur, local hotspots and the overall status of any wars may well influence just what you choose to do next.

News articles come in three different categories:

- War Reports - Blockades, battles, fleet battles, ships destroyed and suchlike are reported here.
- Trade Information - these articles contain information influencing the prices and availability of cargo for a short period of time. Whether buying cheaply, or selling at an inflated price, this news only has a short lifespan before someone, somewhere takes advantage of it.
- General News - general articles about the universe around you. Politics, the environment, and other subjects may interest you. Sometimes, precious nuggets of information may become available.

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On accessing the News Screen, two boxes will appear one above the other. The upper box contains the article title for each item of news produced. All news produced since the current game was started is accessible from this box.

To read a news article, highlight the relevant title. The body of the news article will now appear in the lower box. The Broadcast Date and Time will then follow the body.

Figure 5 The News Screen

7.3.2 In Game Missions

One of the main aims of a Vega Strike pilot is to make a profit. While there are several different ways in which to do so, we consider here the ability to accept missions that require the Vega Strike pilot to perform a mercenary duty for reward.

In the Vega Strike dynamic universe, mercenaries with a good ship - and better upgrades! – can make a living from being better than their opponents. If a merchant's milk run is not for you, your place is here! Whether you're interested in tracking down criminals for bounty, defending or attacking a nominated target, performing escort duties or patrolling the local systems, we have the job for you. If the job's too tough, hire wingmen! The merchants aren't forgotten either. Take a cargo mission to a distant base for a premium, and then fill your cargo bay with more cargo for delivery. Even a mercenary may want to take a cargo mission once in a while, just to deliver a cargo near your target, and use the credit for that last upgrade before you do battle!

Vega Strike has the ability to provide a pilot with missions in two ways: firstly by accessing the Mission Computer and selecting a mission; secondly by talking to fixers in the Bar (p29).

The Mission Computer posts standard missions with a comparatively low level of reward. Multiple missions can be accepted, but don't take too many. If a pilot doesn't fulfill a mission in a reasonable timeframe, you'll lose the mission, and your reputation with the faction will suffer too.

The rarer, more profitable missions can be obtained from fixers located in bars across the known universe. From off-duty military personnel, merchants, to smugglers and pirates, someone, somewhere, has a job for

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you. These missions are more dangerous, more intense and - more to the point - rewarding than BBS missions. You'd better be careful though, some missions may lead you where you didn't plan to go, and you may have bitten off more than you can chew...

Lastly, pay attention to the news. Those broadcasts aren't just eye candy. You want to know where the hottest spots are; you want to know how you can make a difference in the war (for a modest fee); or you're engines are shot, weapons are down and you just want to be left alone to heal; well, GNN does have some usefulness.

Mission Types

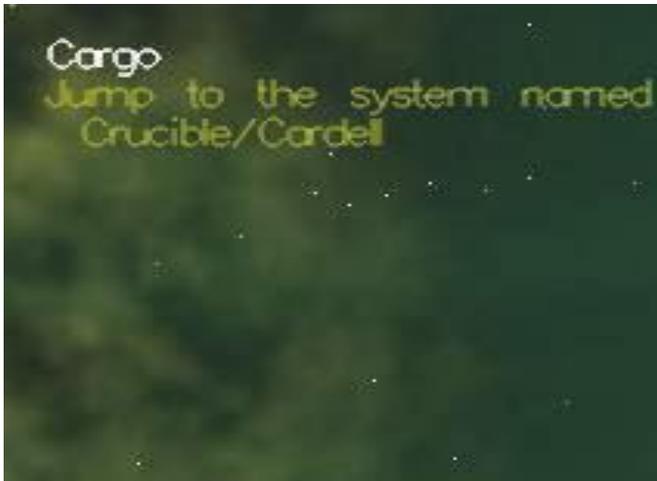


Figure 6 Mission Objectives

to another destination.

- Bounty missions ask you to hunt down and frequently kill a target.
- Escort missions want you to escort a ship from your present location to somewhere else, defending it from any and all attacks.
- Defend missions pay you to attack or defend a static target.
- Patrol missions have you patrol or scout some places in a certain system.
- Wingman missions allow you to hire wingman.
- There are sometimes other missions, which you will need to review closely to determine what is required.

Once you have accepted a mission, the mission objectives appear in your cockpit screen. As you complete an objective, the color will change. Once you have completed a mission, a communiqué will appear notifying that credits have been added to your account.

A total of three (3) missions may be accepted via the Mission Computer or from fixers.

Mission cargo remains in your cargo space until the mission is completed. If you need to remove the cargo, return to space. Select your cargos manifest using [w], and use [PGUP] or [PGDN] to ensure the mission cargo appears topmost. Use [Z] to eject the topmost cargo. If you have a Tractor Beam, you may then tractor the mission cargo back into your hold as standard, sellable cargo.

Accepted missions are not saved within a Saved Game. Therefore, you will need to perform a mission on acceptance. (*ED: we recommend saving your game before accepting missions, as this will then allow you to reload a game, canceling any missions previously accepted*).

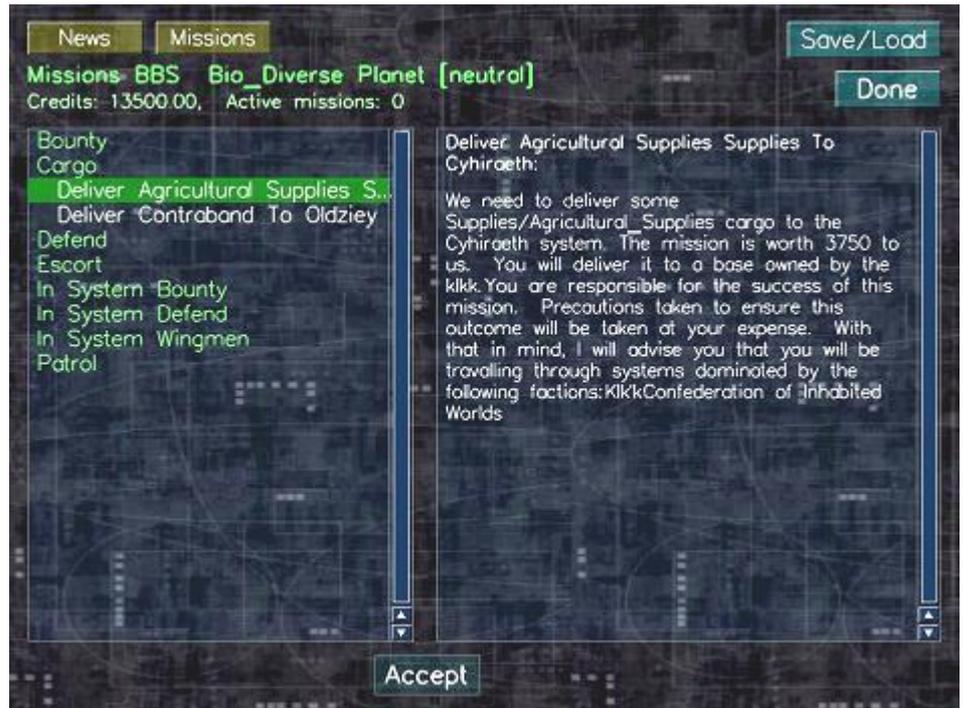
Vega Strike

Missions Screen

Figure 7 The Missions Screen Bulletin Board Service (BBS)

If you are interested in flying missions for reward, you need to access the Mission BBS Computer to see what's on offer. To do so, you must be docked at a base. That base will need to have a Mission Computer available. Some bases may not have a dedicated Mission Computer, but you may be able to access them from another computer which has a Missions button.

To review and select missions, follow these steps:



1. Click on the [**Mission BBS**] button. This takes you to the Missions Screen and displays a list of available mission categories.
2. Click on the category name to expand and list specific missions of that type.
3. Highlight a specific mission to read the details in the box to the right.
4. Select the highlighted mission by clicking on the [**Accept**] button at the bottom of the screen. You will note that your Active Missions will have increased by one.
5. Once you have selected you missions, exit the screen via the [**Done**] button.

Fixers

If the base has a bar, go on in and treat yourself to some rest and recreation. While you're there, check out who's seated at the tables. People of all walks of life may want to talk to you. If you're interested, click on them to hear what they say. After they have finished, a [**Yes**] / [**No**] choice box pops up. If you're interested in what they have proposed, indicate your decision by clicking the appropriate response.

Figure 8 What can you do for me?





7.4 Weapons Room

On arrival at a base, station or planet, most pilots want to perform a number of various functions. These functions include browsing for new missions, replacing and upgrading weapons and ships, and lastly, trading any cargo they happen to be carrying in their holds.

We focus here on the Weapons Room. To access upgrades, player information or ships available for purchase, you must have access to a Weapons Room. Locate the Weapons Room by moving your mouse cursor around the Concourse until it is highlighted and the name appears at the bottom of your screen (you may not find one, as not all bases have the access required). Once this occurs double-click **[LMB]** to enter. Inside the Weapons Room, locate and access the Upgrades Screen as above.

The Upgrades Screen will have the following across the upper viewing area. In the top left will be three buttons marked **[Upgrades]**, **[Info]** and **[Ships]**. If any of them do not appear, that means the base where you are located does not have access to that function at that time. These buttons provide access to the **Upgrades Screen** (p30), **Player Information Screen** (p32) and the **Ships Screen** (p33) respectively. By default, the Upgrades Screen will appear when the Upgrades Computer is accessed.

Below these buttons is the screen title, followed by the name of your current base location, with the owner's name in brackets beside it. Below that your total available credits is recorded. Beside your credit record is your cargo hold showing total cargo volume of the hold and cargo volume remaining.

In the top right corner of the Mission Computer are the **[Save/Load]** and **[Done]** buttons. The **[Done]** button exits the Mission Computer.

7.4.1 Upgrades Screen

In Vega Strike, not every ship (and not every pilot) is the same. Whether you're a rookie pilot looking for an afterburner; a merchant with a large cargo vessel; or a bounty hunter with a highly customized fighter, everyone at some point seeks to modify their ship - looking for that extra edge.

The Upgrades Screen allows the player to access, view, buy and sell any and all upgrades capable of being placed on a ship. From attaching extra navigational aids such as afterburners, maneuvering jets and thrusters, to more powerful power plants, shields and weapons, if you have the credit, the dealer (may) have the upgrade.

That is, not all dealers stock the same types or amounts of upgrades. Some upgrades are only available in certain locations (military upgrades for military ships is a good example). Also, your ship type may restrict the amount or type of upgrade that can be acquired. A light ship may be restricted to small reactors and light weapons only.

For information on what you can outfit on your ship, and descriptions of the upgrades themselves, refer to the online **Database** <http://vegastrike.sourceforge.net/phpwiki/index.php/VsManualDatabase>.

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Using the Upgrades Screen

The topmost section of the Upgrades Screen reveals your current docked base's information. For example, the screenshot states you are on a bio-diverse planet operated by the neutral factions.

In appearance, the Upgrades Screen has three view-screens, two placed side by side in the centre of the holo-vid, with the third view-screen at the bottom. Note that the view-screens have slider bars where information is greater than can be viewed in one view-screen.

The left view-screen is titled Available Upgrades. This view-screen lists all upgrades currently

available for purchase and installation onto your current ship. Upgrades are arranged in categories, some of which are then divided into sub-categories - for instance, the Shields category divides into Light, Medium and Heavy Shield sub-categories, within which are located individual shield models.

Upgrades marked in red cannot be installed to your current ship. This will either be due to your ship already having a similar upgrade installed, your ship cannot mount that sized model upgrade, or your do not have the funds available. When marked white, the upgrade may be installed.

Note that upgrades marked Add (e.g. Add Capacitance) allow you to purchase additional amounts of that upgrade.

Lastly, this view-screen allows the player to repair a damaged ship by selecting and buying **[Basic Repair]**. This function repairs the basic ship type currently held. It does not, however, replace destroyed upgrades, nor repair them.

The right view-screen is titled Improvements to Sell. This view-screen operates similar to the Available Upgrades view-screen with respect to category selection. This viewscreen lists all upgrades currently installed on your ship. You may choose to sell any and all such upgrades – a necessary function where you replace an upgrade with a more powerful model.

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To make a selection, click on the category and/or subcategory in the respective screen. Then, highlight the model you wish to buy or sell. Note that when you highlight an upgrade, a **[Buy]** or **[Sell]** button appears between the two view-screens. Click this button to enact the transaction.

The third view-screen provides statistical data, pricing and a description of the current upgrade highlighted. If the upgrade highlighted is one for sale, the price of purchase as well as sale price is displayed.

In the top right corner of the Mission Computer are the **[Save/Load]** and **[Done]** buttons. The **[Done]** button exits the Mission Computer.

7.4.2 Player Information Screen

This screen provides information relating to the player. On display at the top of the screen are two buttons, **[Player Info]** and **[Ship Stats]**. Pressing either button brings up a viewscreen containing information on factional relationships and current ship statistics respectively.

Player Info

This view-screen lists all the factions that may be encountered in Vega Strike. Each faction listing has a reputation rating ranging from positive (green, allied) down to negative numbers (red, enemies), with several other ratings in between. The second number recorded is the number of faction ships destroyed by the player. Lastly, a tally of Total Kills is recorded at the bottom of the view-screen.



Figure 10 Player Information Screen

This information can also be accessed in space via the Map Screen.

Ships Stats

This view-screen outlines the statistics of your current ship. Information pertaining to armor, shields, weapons and maneuverability is recorded for your review.

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7.4.3 Ships Screen

In Vega Strike, not every ship (and not every pilot) is the same. Whether you're a rookie pilot just starting out; a merchant needing a large cargo vessel; or a bounty hunter after a high performance fighter, everyone at some point wants to replace their current ship with something better suited to what they're now doing.

The Ships Screen allows the player to access all of the various ships available within Vega Strike. Light to heavy ships, produced by all the shipyards of all the various factions may be available - for a price.

Not all dealers stock all available ships. Some ships are only available in certain locations (military ships at military bases are a good example). Also, your reputation with both the manufacturer and the base you are docked with may influence availability.

Ship Types

Vega Strike offers several different ships, each available in varying condition. These are:

- **Blank:** This purchase provides only the basic hull. ALL upgrades (weapons, shield, armor, reactor, radar etc) must be purchased separately.
- **Milspec:** A milspec ship is partially outfitted. It comes with certain upgrades permanently attached. Milspec ships are notorious for their difficulty in accepting upgrades, unless no upgrades of a specific type were fitted at purchase. They are usually cheaper.

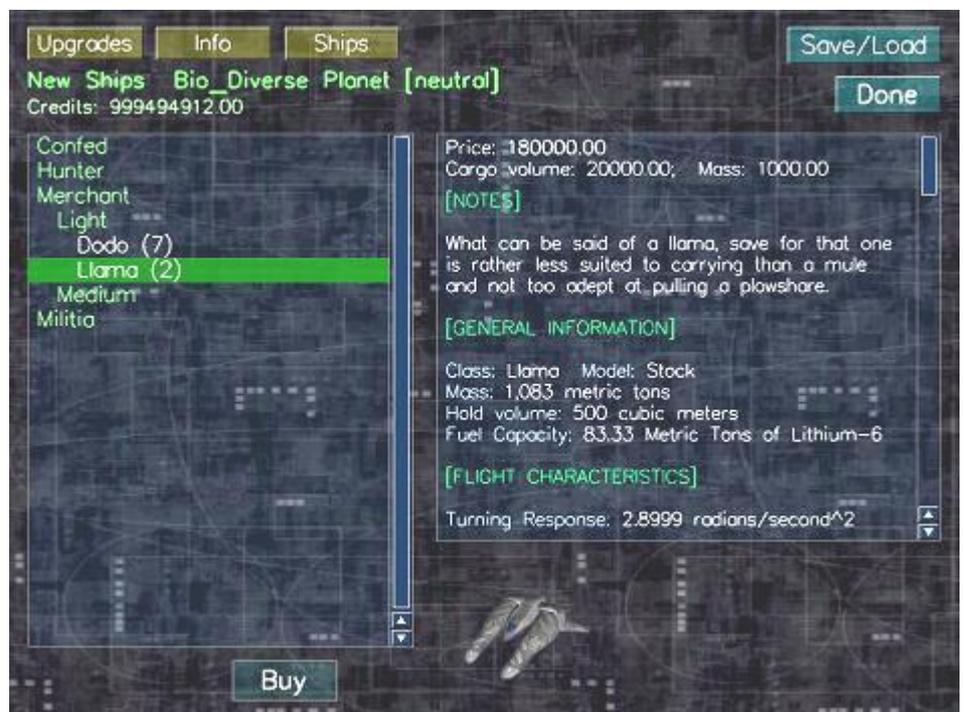


Figure 11 The Ships Screen. Note the picture of the ship as it appears at the Landing Pad and in space.

Purchasing New Ships

The Ships Screen display shows two view-screens. The left view-screen is the Ship Selection view-screen. Ships are organized in categories, based on the factions that produce ships. They are then sub-categorized as light, medium or heavy classed. The right view-screen is the information screen, displaying information on the highlighted ship.

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To select a ship, click on a category then click on a subcategory to bring up a list of ships of that type. Ships marked in red are either unavailable or out of the player's credit limit. To purchase a ship, highlight it and click on the **[Buy]** button at the bottom of the Ships Screen. This replaces your previous ship with your new acquisition. Your new ship will appear on the Landing Pad and can be outfitted at the Upgrades Screen.

My Fleet

Vega Strike allows the player to own more than one ship at a time, sell unwanted ships and arrange transport of another ship to their current location.

After purchase, a new ship will appear on the Landing Pad, with the old ship placed into storage at that base. The player then continues with the new ship. The player may, however, request that a previous ship be transported to the player's current location – typically when the player has lost their latest ship in battle. The previous ship is delivered to the current location, and the player changes to the delivered ship. The transport cost is displayed when a ship is highlighted. Lastly, if any old ship is unwanted, it may be sold to the open market.

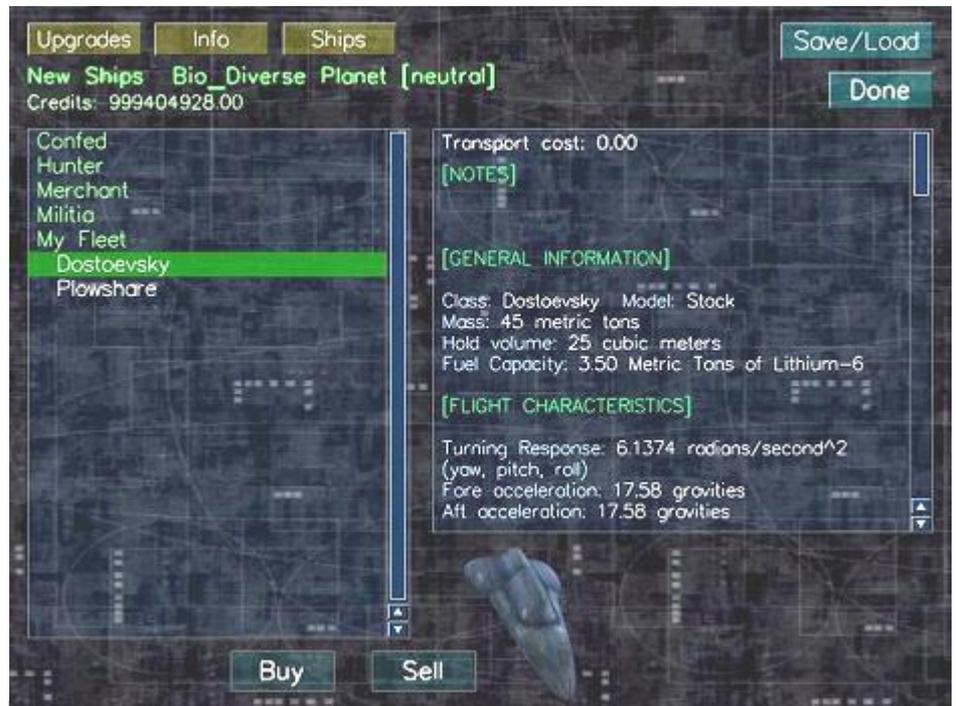


Figure 12 My Fleet

Where a player owns multiple ships, the Ships Screen displays a final category, My Fleet. Clicking on this category brings up a list of all non-active ships owned by the player. When requesting that a ship be transported to the player's current location, highlight the required ship and press the **[Buy]** button at the bottom of the screen. The ship is transported to the current location, the player changes to it, and is charged the transport cost. To sell unwanted ships, highlight the ship and press the **[Sell]** button. This disposes of the ship for its current value including upgrades.

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7.5 The Bar



Figure 13 The Bar. Sit back, have a drink, see who's going to give you money next.

A greater hive of villainy, danger and iniquity you will never find than the local. Whether gambling den, tavern, fest hall or respectable dining establishment, most characters in Vega Strike will at one stage or another be found, having a drink and soaking up the ambience.

Maybe they're watching to see who else walks through the door... maybe watching you. Are they just acknowledging a fellow denizen of the universe, wanting to have a general conversation with you, hire you for a 'special' mission ... or are they watching for a reason more sinister?

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In Vega Strike the Bar, located at most bases in the known universe represents such establishments. While stepping in here to have a drink, you can chat to the bar attendant, catch up on the latest holo-vid news, and look into accepting specialized missions from fixers.

7.5.1 Bar Attendant

Chatting to the local bar attendant allows the player to obtain knowledge of local news, flying tips and occasional bits of valuable knowledge. While most conversation is designed to draw you into staying longer (and drinking more), there are the rare conversations where the bar attendant will let slip some important knowledge about goings on, potential money sources and similar valuable information. Don't discount talking while in your cups!

To chat to the bar attendant, move your pointer over their icon to highlight them and click.

7.5.2 Fixers

Fixers are representatives of the various Vega Strike factions with whom it may be profitable for you to converse with. For more information on fixers, refer to the heading **In Game Missions** on page 27.

7.5.3 News

Want to catch up on the latest occurrences in the Vega Strike universe while you were out clearing the dust off your wings? Switch on the news holo-vid, located to the top right of the Bar. This will take you to the News Screen. Refer page 26 for more information.

7.6 In Game Menu

This menu function allows the player to save the pilot at a current or new location, load a previously saved pilot, begin a new career or exit Vega Strike completely. To access this menu, you must be docked at a base. The player must then access the Cargo Computer (p24), Mission Computer (p26) or Upgrades Computer (p30), which has a **[Save/Load]** button located to the top right.

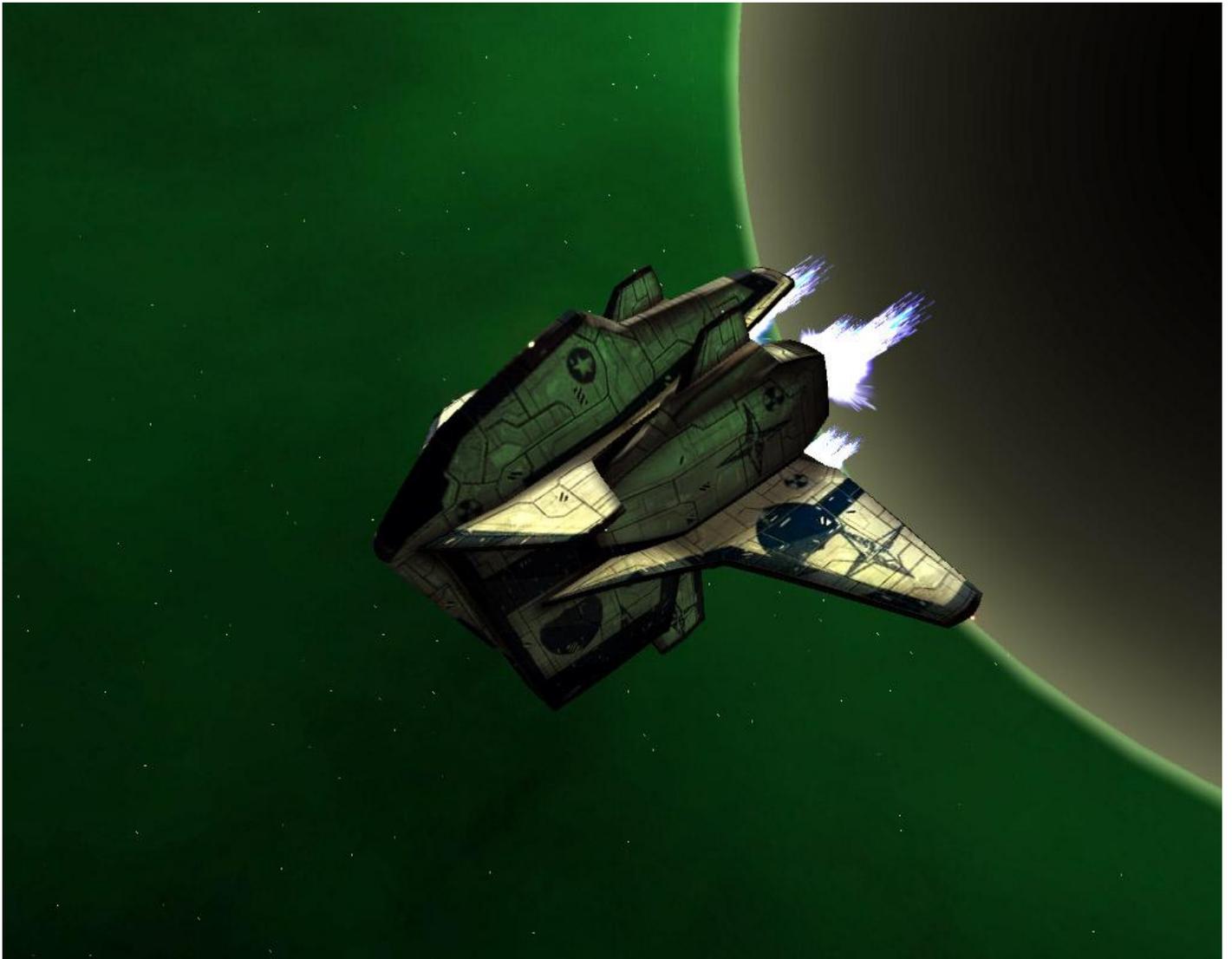
Buttons

- Ø **Save** – Select the save destination in the left box, or click on the box next to **[Quit Game]** and enter a new save name. Click on the **[Save]** button to save the pilot to that save name.
- Ø **Load** – Select the pilot to load from the left box. Click on the **[Load]** button to import as the current pilot.
- Ø **New** – Select **[New]** to begin a new pilot's career.
- Ø **Quit Game** - Quit the game and return to your computer system.



Figure 14 In Game Menu

8 IN-FLIGHT STATUS CHECK





8.1 Basic Flight Training

... In training with Major Dwight Somlen (*ret*) of the Confederation of Inhabited Worlds military...

(Background, low volume) "What makes you think that these wet behind the ears can learn anything? Do you really think they have the b-" *(sounds of interference erupt from your PAD)* "to be able to pilot a craft ... what? We're live?"

(Full volume speech) "Greetings, pilots! I've been requested by the control authority to provide some pointers for rookie pilots on how to fly their brand spanking new spacecraft. The good thing is that no matter what craft you're flying - whether a Llama, Goddard, Ox, Mule or whatever - your interaction with the flight controls is the same. Now, many rookies love to jump in, start moving, and figure out the controls as they go. That's fine, and I'll listen to your space debris hitting my shields when I pass your frozen corpse. The smarter pilots learn their controls beforehand, as that half-second difference in flight control manipulation could mean becoming a smear on the side of a station, or a twisted hulk after tangling with an Aevant.

"Now, first things first. How do you move? If you want to change your direction of movement, you need some sort of flight instrument to relay your commands. Let's refer to your instrument documentation -" *(low volume mutter, as though to someone beside him)* "they DID get that didn't they?" *(Full volume)* "There are three forms of flight control: joystick; mouse and keyboard. The joystick is pretty self-explanatory. Push the joystick forward, and your ship's nose points 'down'. Pull back and you point up. What? Yes, yes you can invert the controls if you want. Push the joystick from side to side, and your craft will turn on the vertical axis. Some advanced joysticks will even let you roll if you can configure your ship correctly. Now, your mouse does the same job in two ways. First, we have mouse warping. That's where moving your mouse in a direction, moves your ship in that direction. Keep moving your mouse - yep, that's right - and your ship keeps turning. Mouse gliding, on the other hand, means that moving your mouse pointer away from the centre moves your ship in the direction of the pointer." *(Low mutter)* "Me, if I don't have my joystick in my hand, I prefer to glide." *(Full voice)* "Lastly, you have the keyboard. Both the joystick and mouse imitate the keyboard. Use your **[cursor keys]** to move up, down, and sideways, **[Insert]** and **[Delete]** keys to roll left and right. You can also use the keypad to do the same thing: **[KP8, KP2, KP4, KP6]** and **[KP/, KP*]** to roll.

"OK, so now we're spinning around, going nowhere. What we need is thrust - can the laughter you lot up the back! To move anywhere, we need to have velocity. Velocity is determined as relative to the current system's sun. The following describes the first mode of movement, the **Combat Mode**. Use the equal **[=]** or **[KP+]** and minus **[-]** or **[KP-]** keys to alter your velocity respectively. Notice that you can have forward and reverse velocity. To obtain maximum combat velocity, use the backslash **[\]** key, and the **[BACKSPACE]** key reduces velocity to zero. Essentially, these commands provide a **Requested Velocity Vector**, otherwise called a 'set' velocity or speed that your craft will always try to move at. At times, like when turning, your velocity may vary up or down, but your craft will always try to return to this Requested Velocity Vector. The other modes will be discussed in a later lecture.

"That's enough for now. You've probably heard enough of this old f- I know, I know, no swearing. Have a think about what I've just said - it just might mean that I'm NOT hearing your space dust on my shields."



8.2 Advanced Flight Techniques

... Fade in on Major Dwight Somlen (*ret*) of the Confederation of Inhabited Worlds military...

(*Low volume*) "... and these nuts want to know more about how to kill themse-" (*full volume*) "Will someone please tell me when we're on?"

"Welcome back pilots! Since I see you're all here, I'd say everyone survived their first piloting experience? Fine, so let's learn about some more advanced flight techniques.

In the last lecture we learnt about setting your velocity. Now there are a few ways that let us get around the set velocity limit. For those of us lucky enough" (*sotto voice*) "- rich enough -" (*full voice*) "to have an Afterburner capability on our craft, you can use the [TAB] key to activate it. Afterburner gives your craft a greater velocity than your maximum combat velocity alone. The downside is that you have to hold the key down to maintain your afterburner, and you only have a fuel limited amount of time to use your Afterburner for. Where you don't have an Afterburner, you can still use the [TAB] key to accelerate to your maximum set velocity, just like the [+] key. In this case, though, releasing the [TAB] will then reduce your velocity back to the 'set' original.

What we've talked about so far are the settings you would have when flying around a base, station or planet, or when you're in combat - yes, I've heard all of you boasting. We'll just see who turns up for your reunion, right?

Anyway, to get greater velocity than the **Combat Mode**, use the [y] key. This key changes mode from combat to **Flight Mode**. This mode allows you to increase your set velocity by one hundred times. So, why aren't we all jetting about in this mode? Well, there are a few reasons. Since we must still deal with inertia, your craft will drift in your old direction a bit before moving the way you want it. If you wanted to fly around a capship and kept drifting towards it at a high velocity - yes, I can see you all wincing. Secondly, try to imagine combat at such velocities. Your opponent would be out of range by the time you aligned your weapons on him and fired.

Now, all these flight commands deal with inertial movement. Most small craft can pull 10-20 gravities (G's) of acceleration or deceleration, and have a flight system designed to account for inertia. At combat velocities, your craft won't be going fast enough that you really notice the effects of inertia. Larger craft are not designed with large G's in mind, and the effects of inertia mean that changing direction or velocity requires a longer timeframe. Similarly, traveling in flight mode (a higher velocity) will result in the same problem when altering course or attempting to cease all movement - it takes time.

Inertial drift, however, can be a benefit. There's a name for it, the **Shelton Slide**. It actually works quite well in battle. This maneuver requires you to approach you target at high speed, and a little off centre (i.e. not head on). When level with your target, quickly turn to face it while reducing you velocity. Your ship will continue in its prior direction until your computerized flight control can compensate for the change in direction. That brief period allows you to strafe the side of your opponent, often hitting the weaker side or rear armor.



The reason I mention it is that there is also a key, the tilde key [`] that provides a controlled version of this drift. This command disengages the ship's flight systems from flight control - so your ship will not try and correct velocity or direction. While it doesn't give you six degrees of freedom of movement, you can spin around to face elsewhere while still moving in your original direction and velocity. This is definitely a handy maneuver in battle.

A better way to move around from base to planet to station is to use your **SPEC** drive. You should read the instrument docs that came with your ship for specifics of how the drive operates. Where there are no asteroids or enemy ships blocking your way, you can activate the drive, obtaining high velocities based on any nearby gravity wells - that is, the further you are from a gravity well, the faster you move. A **SPEC** drive allows you to point your ship in the appropriate direction, and hit the [a] or [A] key. Speed increases by a large factor, enabling you to cross inter-planetary distances in only a short period, rather than weeks or months. On approach to your destination you normally re-enter a gravity well, reducing your velocity, and you may hit the key again to deactivate. Note that this function has the effect of attenuating your shields, reducing their combat effectiveness until they regenerate.

The last point I want to raise is Matching Velocity. Now this function also requires knowledge of targeting (p50); so I'll only touch on it briefly. Our calculation of velocity in space is determined relative to a single point in space, usually based on the local sun. At times, you may want to match the velocity of another point, say a ship - usually when docking or in combat. The use of the [HOME] or keypad [KP-7] keys matches velocity with your target. Your set velocity becomes zero relative to your target. Using the [END] or keypad [KP-1] key resets velocity against the local sun.

Well, that's it. You should also note that your instrument documentation has information on other key uses, but they're more specific and outside of the scope of my talk here. I hope at least some of you listened, it may well save your life someday."

(Sigh) "Someone give that fool up the back a kick to wake him up."

8.2.1 Matching Velocity

As the Major states above, a ship's velocity is relative to a point in space and measuring it in relation to the local sun has long since been accepted as standard. When matching against another object, however, the result is that the object you match velocity with essentially becomes the stationary pivot around which your own viewpoint will move. This function also assumes that the new object does not change velocity or direction. Understand too, that your velocity in relation to the local sun may well be quite high - this is the result of inertia and a changed point of view. As such, this function effectively modifies flight control.

To match velocity with a target, you must first lock onto it. You must then use the [HOME] or [KP-7] key to match velocity with your target. Your set velocity then becomes zero relative to that target, i.e. your '0' set velocity becomes the velocity of that ship. Use [END] or [KP-1] key to reset velocity against the local sun.

[BACKSPACE] (Set speed to '0') will assure that your ship is stationary relative to the other star ship (unless it accelerates faster than you and is accelerating).

8.2.2 Docking Procedures

Docking is an integral function of playing Vega Strike. Without knowing how to dock, you can never interact with another base in the universe. There are several steps to be followed in order to dock with a station.

In order to dock at a location, you must first get there. How to target a base or planet, and flying there using SPEC drive or Flight Mode are discussed elsewhere. Once you have arrived, maintain a target lock on your destination.

Continue traveling towards your destination. As you close, green and red docking indicators will appear, indicating docking clamps. Green indicators are usable docking clamps. Red indicators indicate that the docking area is either on the far side of a base or ship's superstructure, or damaged; and as such, you cannot dock with that docking clamp.

Approach the green docking clamps under Combat Mode at low speed. When the green indicator fills your screen, you are close enough to dock. To initiate the automated docking sequence, press [d] and your ship will dock. If you are not close enough to the docking clamps, you will receive a communiqué informing you to move closer to the docking clamps. Repeat this step until the sequence begins.

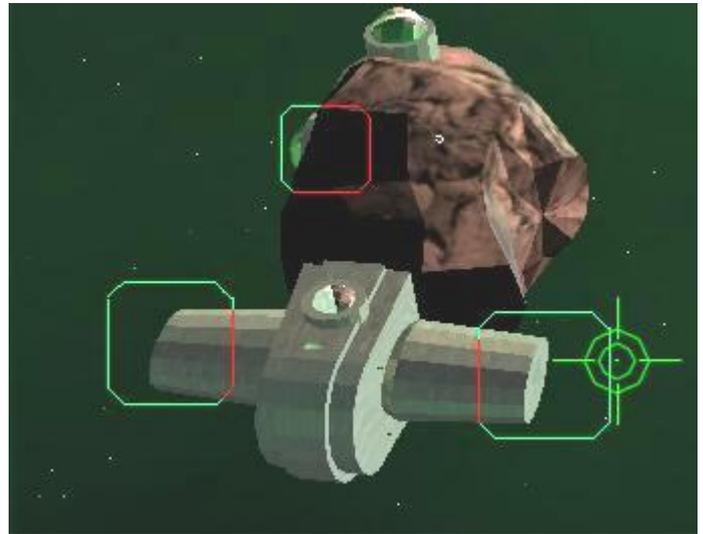


Figure 15 Docking Clamps. Get up close, but don't crash into the base!

Once docked, your screen will then change from the in-flight HUD (p45), to the Landing Pad (p23) interactive screen.

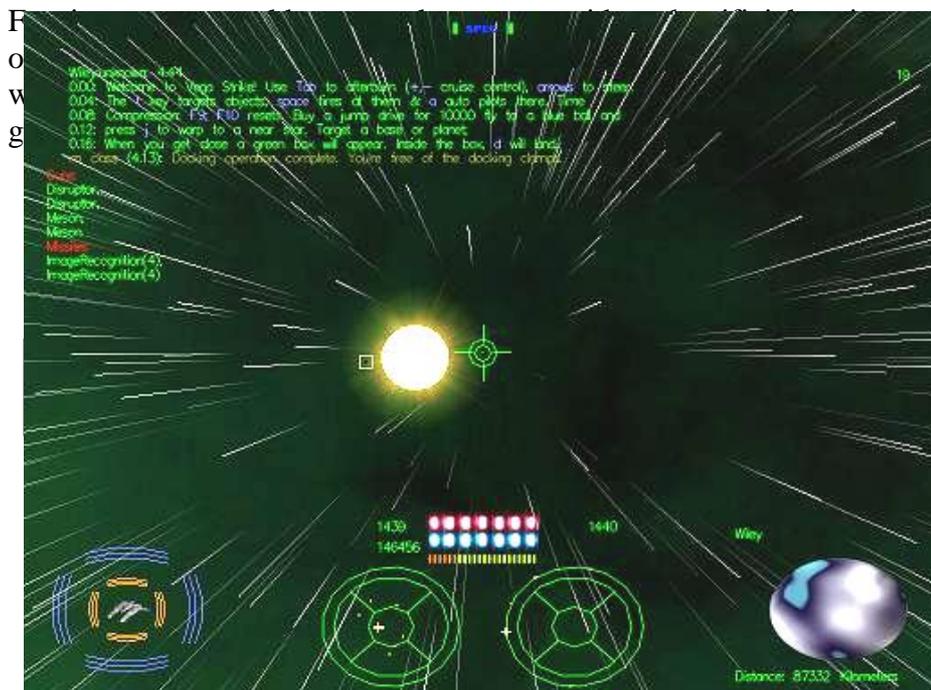
During your approach, we recommend you seek clearance to land at the base or planet. Doing so will communicate your desire to dock ahead to the docking authorities. It is considered polite (maybe it will even improve your reputation), and also has a practical aspect. Seeking clearance will bring up the docking indicators earlier. Pressing [0] (zero) will send a request for clearance to your target.

Final Note: destinations without a 'type' (Factory, Industrial, Oceanic etc) are uninhabited; while you may still land there, these destinations have no base computers to interact with, and it is usually unnecessary to land there.

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8.2.3 In System Transit

There are three potential ways to travel between locations within a system. These are via Combat and Flight Modes, or by using your ship's SPEC drive. As you could imagine, attempting to travel between locations under the normal modes would require a large amount of time; being nearly useless to a pilot, whether of the merchant or mercenary bent.



is made possible by the development (contraction) and its alien equivalents at light speed though *compressed space*, mode.

The degree of compression is restrained by the drive's distance from any nearby gravity wells, so the nearer a gravity well (sun, planet or even station) the less effective is the drive and the lower the magnitude of movement over normal velocity. You may have heard a metaphor for gravity that states "space is a big soft bed, planets are bowling balls, and smaller balls roll towards the indentations." Well, in SPEC travel, *the planets are more like*

big hills that get steeper the closer you get to them.

The energy costs are much higher to use the SPEC drive as opposed to jumping. As such, SPEC drives are used for interstellar travel only when exploring outside the jump network or when launching a military expedition (as going through the "front door", so to speak, is a good way to get butchered). All space worthy ships are fitted with a SPEC drive for in system travel.

To use SPEC, make sure that you are aligned on your target. This means that you are both pointing your ship at your destination AND that your velocity vector is pointing at your target (you are actually traveling in the direction you are pointing). To activate, hit the [a] or [A] key. A blue SPEC light will appear on your HUD (p45), and your velocity will increase. On final approach to your destination, hit the same key again to deactivate the drive and return to your previous flight control. Please also note that your weapon systems are disabled while in SPEC mode, to avoid collision with your own weaponry.

8.2.4 Autopilot

Vega Strike has access to an alternative insystem function (not used in the core game, but available for mods) called Autopilot. Autopilot shortens the transition time between two areas of interest where there are no identifiable hazards nearby, such as the presence of enemies and obstacles (asteroid fields).

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Where autopilot is available, the AUTOPILOT light in the cockpit activates. To use it, however, a player must first select a destination. Use the targeting keys or map screen to browse and through the available nav points and select a destination. Once a destination has been chosen, hitting [a] activates autopilot. Your cockpit viewpoint is replaced by a camera view panning around your ship, reverting back on arrival at your destination. Generally autopilot delivers a player within 15,000 meters of their destination, at which point the player must manually fly the remaining distance. Pressing [a] multiple times with the same target merely re-centers that target and will not transition any closer than 15,000 meters.



The autopilot light will be off as a result of the following:

- a) the player is within 15,000 meters of a destination;
- b) a hostile target (use [h] to browse through hostile enemies) is nearby; or
- c) the player is near or within a hazard (use [n] to browse for hazards).

If none of these scenarios applies, it may be that a hostile just died and your sensors are verifying the debris is inactive—wait around 10-20 seconds for the autopilot light to appear.

8.2.5 Interstellar Travel



Figure 18 Jumping. Wait for the blue JUMP sign (Upper Middle of the HUD)

For the history and theory of interstellar travel, jump drives and wormholes, please refer to scientific literature. Here, we discuss the basics and mechanics of how to travel between the stars.

To initiate interstellar travel, a ship requires a jump drive. Jump drives use gravitic technology to access a singularity formed between two previously weakened points in the space-time continuum, joining the two points in interstellar space. These singularities (commonly named wormholes) connect one point in one solar system, permanently to another point in another system. Certain wormholes are rumored to randomly connect two points at random times.

Once a wormhole has been discovered and mapped, it is marked on star charts as a targetable point. An inactive wormhole appears as a wire-frame disk in your HUD (p45). An active, stable wormhole appears as a red whirlpool, while an unstable, random destination wormhole is multi-colored (*ED: this feature currently disabled*).



You may target and approach any such wormhole. Where your ship is jump drive equipped, and you are close enough to an active wormhole, a blue JUMP indicator will appear in your upper centre HUD. This indicates that you may activate your jump drive [j], open a wormhole and fly through to your destination system. For best results, approach the wormhole directly, not from its side.

Final Note: your starting ship is not equipped with a jump drive at start of play. As such, you are only capable of in system travel. You will need to acquire a jump drive to travel between the stars.

8.3 Take a Look Around You

Vega Strike allows you to look around your ship, and your local space. It does this in two ways: by providing a cockpit view and an outside camera position view. You may move from one view directly to another by pressing the appropriate key.

8.3.1 Cockpit View

Cockpit views are just that: from your pilot's seat, this is what you would see. These views represent looking through the front and side cockpit viewports, and a camera pointing from the rear of the ship.

Name	Key	Description
View Forward	[F1]	This view is what appears initially in flight and is otherwise known as the cockpit view. This view contains all the necessary information and displays to fly. While in view forward, pressing [F1] will change from the cockpit view (with cockpit struts) to the Heads Up Display (HUD (p45)). The HUD provides the same information as the forward view but removes the cockpit surround. Press the key once more to return to cockpit view.
View Left	[F2]	This view is looking through the cockpit plasglass over your left shoulder.
View Right	[F3]	This view is looking through the cockpit plasglass over your right shoulder.
View Reverse	[F4]	As a pilot cannot look back through the ship, this view represents a camera mounted and looking to the rear of the ship.

8.3.2 Camera View

A camera view is best described as a single viewpoint or eye located in one position in space. The Panning Camera's ([F6] and [F8]) position is moveable. While in these views, use these keys [q,z,s,f] to move the camera position in the appropriate direction.



Chasecam	[F5]	This view seats a camera behind and above your ship's engines, looking forward. This position is static no matter the ship's movements. Best imagined as having a second ship tailing your current ship, with you in that second cockpit. This view allows you to examine all markings and detail on your ship.
Panning Camera	[F6]	This view positions a camera at a single point in space, facing your ship. You may rotate the camera about your ship using the panning keys.
Target Camera	[F7]	This view places the camera at a location looking past your ship towards your current target.
Target Panning Camera	[F8]	This view positions a camera at a single point in space, facing your target. You may rotate the camera about your target using the panning keys.
Zoom View In	[F11]	While in one of the camera views, this function will move the viewpoint towards the object viewed.
Zoom View Out	[F12]	While in one of the camera views, this function will move the viewpoint towards the object viewed.

8.4 The Heads-Up Display

The Cockpit View and Heads-Up Display (HUD) are the primary interfaces with Vega Strike while in flight. The individual areas of the Heads-Up Display are discussed below in clockwise order from the top left.

Communications

Located at the top left of the HUD.

In the communications section, the first line indicates your current targeted destination, beside which is a counter denoting the time that has passed since launching from dock.

As conversations appear, read them from left to right. The first indicator is the originating source of the communiqué, whether a flightgroup, station or base. Next is the time stamp, being the time showing on the counter when the communiqué originated, followed by the actual lines of the conversation. Conversations are color coded reflecting your current reputation with the object communicating.

Refer to page 51 for further information.

Indicator Lights

Located at the Center Top are three indicator lights:

- The **SPEC** light indicates whether the SPEC drive is currently activated. Refer to page 42 for more information.



- The **JUMP** light must be on to engage the interstellar drive. If it is off, you must manually fly closer to a targeted wormhole. Once you have a distance of zero, this light will normally activate, unless there is something else preventing activation. Refer to page 43 for more information.
- The **OVERLOAD** light indicates that your reactor is going critical, and your ship is about to explode.

Frames per Second

(ED: this is an internal game control/developer testing assist to measure computer performance during gameplay.)

Missions

Where you have accepted missions, those mission objectives will appear to the Centre Right. Missions may be viewed by scrolling using the **[PGDN]** & **[PGUP]** keys. Refer to page 28.

Upon completion (or failure) of a mission objective, you will receive a communiqué (see communications above) informing you of the result. The objective recorded under missions will change color as well.

Right Video Display Unit (VDU)

This Video Display Unit is activated by use of the key **[v]**. This key will also cycle through the various selections. These selections are:

- **Object View:** displays a 3D representation of the targeted object. If the object is a ship, it also displays a red coloration as the target takes damage, and shield strength with bars that reduce as shields collapse.
- **Navigation:** displays printed information on a targeted object, including its location with respect to your position.
- **Communications:** displays a list of potential communiqué you may make to your targeted object. A low number is friendlier than a higher number.
- **Target Manifest:** displays the cargo manifest of the targeted object.
- **Target Camera:** displays a real-time picture of your targeted object from the rear.
- **Target Panning Camera:** displays a real-time picture of your targeted object using a panning camera.

To scroll up or down a selected screen, use **[PGUP]** or **[PGDN]**.

Ship Displays

Located to the Bottom Centre are the ship displays. These include:

- **Scanners:** These two circles represent the forward detection array (left) and the rear detection array (right). All detectable objects (ships, bases etc) are represented by dots on this display. If the object is ahead of you, the corresponding dot will appear in the forward display, to the rear in the rear display. Your currently targeted object will appear as a cross. On obtaining Detection Array upgrades, these dots may be color coded to reflect your reputation with the object.



- **Current Velocity:** located above the left detection display is the Current Speed Indicator. This indicates the forward velocity of your ship, taking into account afterburner use and changes in direction.
- **Set Velocity:** located above the right detection display is the Set Speed Indicator. This indicates the forward velocity your ship travels without changes in direction or after burn.
- **SPEC Velocity:** located below the Current Velocity indicator, this displays the multiplication factor the SPEC drive gives to your current speed.
- **Weapon Energy:** the red bar located above the detection displays is your energy weapon capacity. Firing energy weapons drains this capacity, but is restored after ceasing fire, provided the reactor has sufficient additional capacity.
- **Jump Energy:** the blue bar indicates system drive capacity. Use of both in system and interstellar drives drains this energy. If the energy recorded is insufficient, you cannot activate either drive.
- **Afterburner Fuel:** using an afterburner consumes additional fuel. To avoid a ship being stranded in space, fuel available for an afterburner is limited. Once used, your ship must be refueled at a base.
- **Enemy Lock:** This light indicates that an opponent has you target locked.

Shields Display

Located to the bottom left, this display is a 3D representation of your ship. It displays the strength of both your shields and armor. Shield strength can be regenerated provided your reactor has spare capacitance, but armor is finite and must be replenished at a base. Should your ship take enough damage to reduce shields and destroy armor, your internal ship components will take damage, reflected in an increase in red color in the representation. Too much damage will result in ship destruction.

Left Video Display Unit (VDU)

This Video Display Unit is activated by use of the key [m]. This key will also cycle through the various selections. These selections are:

- **Weapon Display:** displays your ships currently selected weapons. If your weapons have a finite supply of ammunition (solid state and missile/torpedoes), remaining ammunition is also indicated. You may toggle selected weapons using the key [g]. You may toggle selected missiles and torpedoes using the key [w].
- **Ship Display:** displays a 3D representation of your ship, your flightgroup name, ship hull strength, and whether you have special equipment active or inactive.
- **Cargo Manifest:** displays your current cargo, any mission cargo, and upgrades that are stored in your cargo bay. Note that the topmost shown cargo may be ejected.
- To scroll up or down a selected screen, use [PGUP] or [PGDN]

Targeting Reticule

In the center of the HUD is a crosshair. This indicates where your weapons are zeroed (i.e. focused to cross and cause the most damage). During combat, you will usually attempt to have your opponent appear in this crosshair when firing.



Where you have a targeted object in your front viewscreen, that object will appear with an open square bracket surrounding it. Where you lock onto your target, the square will be solid. If you have missile lock on your target, a diamond will appear around the square. Lastly, where your ship is fitted with ITTS (p56), a small diamond will appear in front of your targeted object.

Directional Pointer

Where you have locked onto a target, but the target is not currently in your forward view (e.g. target is to the side or behind you), a directional pointer will appear on the edge of the HUD. This pointer provides an indication of the direction and location of your current target.

8.5 Map Screen

Just as in ancient times, the ability to navigate required more than just seeing what was around you. Navigation also required accurate maps depicting locations over the horizon and dangers hidden away out of view. In spatial navigation, the importance of maps is magnified greatly, as sight alone is all too limited (one cannot usually see an orbital station from a planet's surface, let alone another planet).

Further still, while it is possible to navigate around a solar system using targeting data only, traveling from system to system in the Vega Strike universe would be aimless wandering without adequate maps to provide navigational data. Finding a single system would be near impossible, without reference to a map of the stars.

The Map Screen may only be activated while in-flight. The player should note that activation of the map screen does **NOT** pause the game. Flight controls still operate, opponents will continue to attack, and the game otherwise continues while viewing the Map Screen.

The Map Screen is activated/deactivated by pressing [M]. It appears superimposed over the cockpit view or HUD.

The Map Screen consists of a viewscreen located on the left, and a series of activation buttons to the right. Clicking on the buttons toggles between the two modes described below, and activates functions for each mode.

When activated, this function defaults to the Statistical Mode. This is the screen that initially appeared when starting Vega Strike. This screen provides the basic information required to play the game. It is a condensed form of the more common functions mentioned in this manual. Note that on re-activating the Map Screen, whichever mode was last viewed is the one that appears.

Statistical Mode

The Map Screen provides two different modes. The Statistical Mode is the default that first appears when the Map Screen is activated. This mode provides information on all of the factions that may be encountered in Vega Strike. Each faction listing has a reputation rating ranging from positive (green, allied) down to negative numbers (red, enemies), with several other ratings in between. The second number recorded is the

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number of that faction's ships destroyed by the player. At the bottom of the list is a record of Total Kills made. This screen also displays help information, providing a basic guide on how to play Vega Strike.

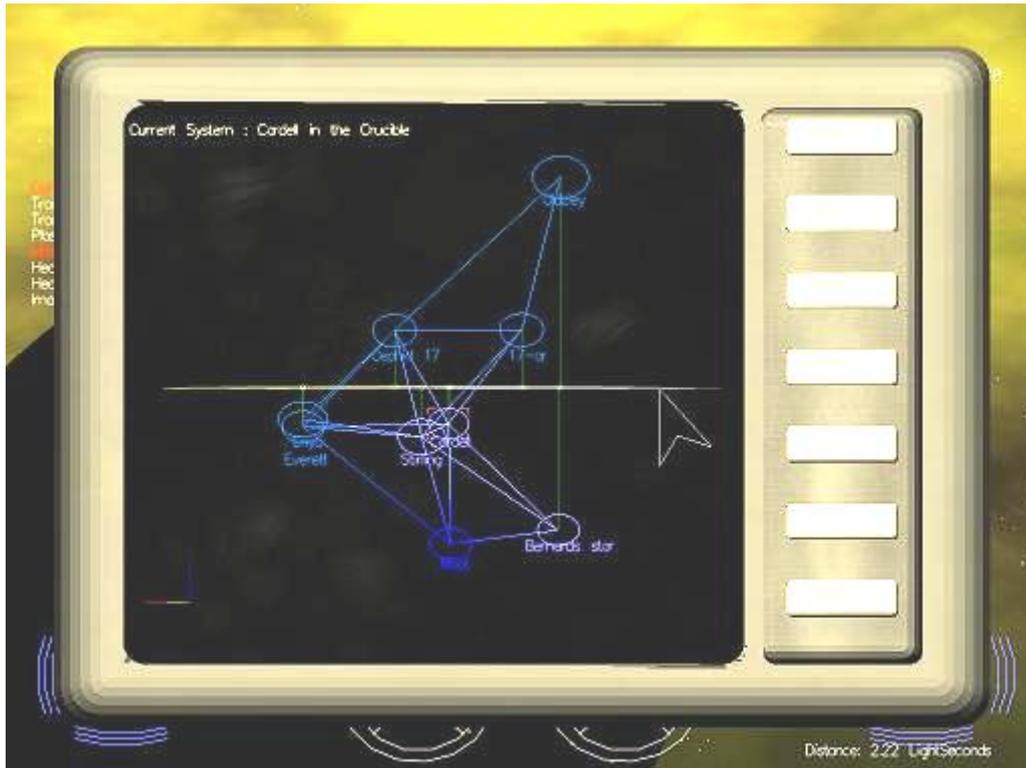
This mode will also provide information on your current ship's physical statistics. It records the current value ratings for your ship's armor, shields, weapons, maneuverability statistics, scanner detection capability, propulsion systems and so forth.

- Ø Navigation = Selects navigation function.
- Ø Information = Selects information function.
- Ø Up = Toggles to the Ship's Statistics screen.
- Ø Down = Toggles to the Faction Relations screen.
- Ø Button 5 = (ED: this button is currently inactive)
- Ø Button 6 = (ED: this button is currently inactive)
- Ø Button 7 = (ED: this button is currently inactive)

This information may also be accessed on a base via the Player Information Screen (p32).

Map Mode

The Map Screen provides two different modes. In Map mode, the player may examine a three-dimensional



map of their currently located solar system. This map will provide information and location of all planetary bodies, artificial satellites, and bases, as well as known spacecraft, color coded by faction.

It can also display a three-dimensional map of all known solar systems. It displays systems with names and color coding to represent the faction holding system, and system links showing which systems have wormhole singularities for travel between linked systems.

Figure 19 The Three Dimensional (3D) Map Screen with the player's current system highlighted.



- Ø Navigation = Selects navigation function.
 - Ø Information = Selects information function.
 - Ø Button 3 = (*ED: currently no function*)
 - Ø Up = Toggles the Sector Map.
 - Ø Down = Toggles the System Map.
 - Ø Axis = Rotates the viewed map around its axis.
 - Ø 2D/Ortho/3D = Select varying viewpoint representations.
 - Ø Select Object = Click on object with **[LMB]** to select object or system.
 - Ø Map Rotate = Click **[LMB]** and hold to rotate through x,y,z axes.
 - Ø Zoom = Click and drag Middle Mouse Button
= Scroll Wheel
-

8.6 Targeting

One of the most useful shipboard abilities in Vega Strike is Targeting. While most pilots consider targeting as only useful in combat, in truth it is required to perform nearly all in-flight functions.

The ability to navigate, both in and out-system, requires a pilot to lock onto a navigation point (base, planet, sun, wormhole, ship etc). Communication requires you to lock onto a target, before selecting which communiqué you will give. Wingmen require you to target them before giving orders.

As such, learning how to target is an important skill, possibly making the difference between targeting and shooting your opponent before he does you, or, making an escape with your cargo intact and not becoming space debris.

Various keys allow the pilot to target different points of interest within a system. You can cycle through all available targets within a system. This is usually when you want to see what's out there. Unfortunately, cycling through all targets is a long process. As such, other targeting keys are more specific. You can cycle through all significant and/or neutral targets such as bases, planets and points of interest. You can narrow this further and only cycle through non-natural targets such as stations and ships. The most important for battle is the ability to cycle through targets hostile to you. You can also cycle through these targets in reverse.

When targeted on large ships or stations, you can also cycle through their sub-units. Lastly, you can point your ship at an object and target it that way.

Once you have a target marked, you can lock your target indicator to that target. Wherever you are facing, or your target is, you can find them without having to hunt through all other targets in the system. This locking capability also allows any missiles or torpedoes carried to also lock onto your target.



Name	Key	Description
All Targets	[t]	Cycles through all targets in the current system.
Significant Targets	[n]	Cycles through all significant/neutral targets in the current system.
Non-natural Targets	[u]	Cycles through all Non-planetary/non-natural units (such as capships and fighters) in the current system.
Hostile Targets	[h]	Cycles through all hostile (to you) targets in the current system.
Subunit Select	[b]	Cycles through the sub-units of the ship you have currently selected.
Lock On Target	[l]	By pressing this key you can 'lock' your selection on the currently selected target.
Front Target	[p]	Pressing this key will pick the target closest to your crosshair. Tends to be used to target planets in front of you.

Please note the [t,n,u and h] targeting features also work in reverse by using [SHIFT+key].

8.7 Communication

Pilots are not just traveling through a void in space. They must interact with a variety of ships, bases, stations and planets. While they can certainly interact - all weapons blazing - such a career is not likely to last long.

The ability to communicate with others in space opens up many options. Being able to say hello, engage in psychological battle with an opponent by using taunts, appeasing factions to repair reputations (by begging for mercy), or to give a blood-curdling scream as your ship disintegrates around you...

The reactions of various factions may be influenced depending on your comms. If you choose particularly menacing taunts, your target may attack you instead of its current target. Likewise you can restore relationships with hostile people with friendly comms. Specific comms messages will be derived from your reputation with your target, as well as any previous conversations you have already had with them.

You can request permission to dock at bases. Doing this before actually docking may improve your reputation with that faction, and will trigger the docking clamps earlier on your approach.

A word from the wise: when being scanned by militia, they will request that you not deviate from current course and speed. Should you do so, they will assume you are carrying contraband and act accordingly.



To communicate with others, you first need to target them. Once targeted, you may then choose what dialogue you will have. To see the types of dialogue, open your VDU to comms mode by cycling with the [v] key. This brings up a list of numbers corresponding to actual dialogue. Pressing the appropriate numbered key [1] to [9] will transmit that message to your target. Lower numbered comms are more friendly than higher numbers ([1] being friendliest). Your message and any replies will appear in the communication VDU at the top of the HUD. You may also use the numbered keys as hotkeys for immediate sending, but you will not see your dialogue beforehand.

To request docking permission, Press the key [0] (refer page 41).

8.8 Wingmen

As a pilot, you will find that many a time, attempting a mission or flying a cargo through dangerous space is impossible by yourself. When this situation occurs, having another pilot on your wing (or several) may be enough to shift the odds.

Wingmen give you the ability to have multiple ships engaged on a mission, not just your own. As leader of your own personal flightgroup, you can order your wingmen to perform most of the actions you are capable of in your own ship. More specifically, you can order them to attack the target you are currently locked onto, come rescue you if you're taking fire (brilliant for the larger merchant vessels), and form them up on your wing.

8.8.1 Commanding Wingmen

Following is a list of available commands:

Press [F] to have them form on your wing. This command places your wingmen in formation with you. They will fly defensively, but attempt to remain in their position. This command is commonly used to have wingmen follow you through a wormhole.

Press [B] to release them. This command releases them from the above order. Essentially, they are weapons and flight free.

Press [H] to help you out. As noted above, where your ship is under fire, using this command will cause your wingmen to attack whoever it is firing on you. Hopefully they will destroy your opponent, but the key is to draw your opponent's fire away from you.

Press [D] to have them attack your target. Where you specifically want your wingmen to attack a target, whether for defensive purposes, or a mission objective, use this command.

Be warned however, that wingmen tend to be fickle and may not always obey your commands. They will inform you whether they will or not.

Just a final word. When flying escort missions, your own escorts will follow wherever you lead, and escort you to your destination. To travel through a wormhole, stop in the wormhole, wait until they get near, and



then press [j]. They will follow you through the wormhole and appear on the other side. Continue to the next destination. Getting escorts right is essential to completing many of the plot missions.

8.8.2 Hiring Wingmen

To hire wingmen, you need to have access to a **Mission Computer**. From the mission screen, highlight the wingmen category. You will then see a list of available wingmen, providing a description of the pilot, flying ability, statistics on what type of ship they pilot, and a price for hire.

Wingmen are aware that they are typically hired for dangerous jobs. As such, they demand payment up front before accepting your commission. Clicking [**Accept**] will hire the highlighted wingman and reduces your total credits by the hire cost. Your new wingman will fly on your wing until you next dock.

See also Mission Types (p28).

8.8.3 Cargo Wingmen

Larger cargo transports can carry fighters as cargo (a miniature carrier). Fighter cargo can be jettisoned and commanded just as hired wingmen. When battle ceases, your ship can then tractor these cargo fighters back in.

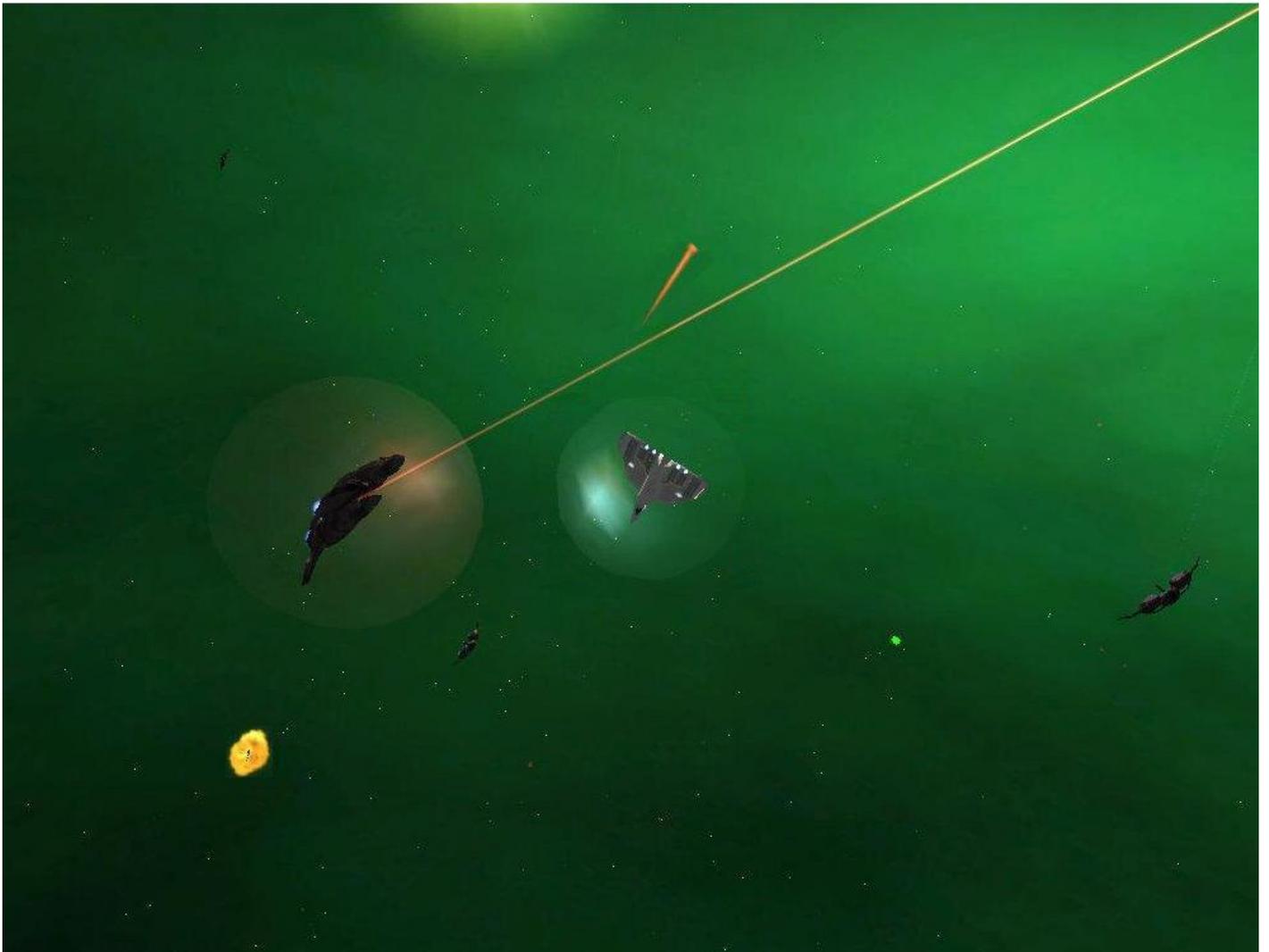
You will need a Tractor Beam to fully use this feature. Cycle your left VDU [**m**] to your cargo list, and [**PGUP**] or [**PGDN**] to position the wingman in top position. Press [**Z**] to eject your escort.

A further ability you have with cargo wingmen, is the use of the Control Switch [[] key. First, target a specific wingman, then press the Control Switch key. Your own control has now shifted from your primary ship, to control over your wingman's ship. You can now pilot your fighter wingman in direct battle against your opponents.

After battle has ceased, return control using the same key back to your primary ship. From there, activate and use your Tractor Beam on your fighters, hauling them back into your cargo bay.

Then, just continue on your merry way!

9 COMBAT





9.1 Engaging in Combat with an Opponent

The Vega Strike universe is, by its very nature, a dangerous place. You are confronted with the danger of navigating into a star; your ship's drive malfunctioning, turning it into a floating coffin; the hull being holed, losing atmosphere; even a lack of supplies to last a journey. The greatest danger by far, though, lies with other sentient beings.

Vega Strike is set against a backdrop of interstellar war between three dominant (and several client) races. A pilot could easily be caught up in this war, and must defend against all types of assailants. Further still, you must also deal with dangers from your own kind. Pirates, merchants, even the militia may be after you, your ship or your cargo.

Survival requires more than heavy shields, high afterburner velocity or a nearby wormhole. Combat skills - the ability to bring down your opponent and halt their attacks on you - are highly valued in Vega Strike. So, do you have what it takes?

Combat involves several functions already covered in other sections of the manual. These include Flight Techniques, Targeting, and Communication to name only a few. What we are concerned with here are the absolute basics required to engage in successful combat.

Usually, the first warning that you are engaged in combat will be either a communiqué from your opponent, seeing them fire, or worst of all, hearing their weapon's impact and seeing your shield levels falling. A flashing light near your power displays will also provide an indication of someone firing upon you.

The first you need to do is locate, target and lock onto your opponent. It is recommended that you remain focused on that one opponent. This ensures that they do not have time to recharge their shields, while yours take a battering.

In the center of your flight screen (the HUD), is your targeting bracket. Your initial vessel (a Llama class ship) comes equipped with a forward mounted weapon that fires a burst of energy centered on this bracket. When engaging in battle, you will need to keep your opponent located within this bracket, giving a better chance of hitting your opponent with your weapon.

Your right Video Display Unit (VDU) shows a three dimensional (3D) representation of your opponent. As you hit your opponent, you will note that their shields reduce to nil. At this stage, any further hits begin damaging armor, followed by internal components. As damage accumulates, the ship representation will become a deeper red. Once enough damage has accumulated, your opponent's ship will then explode.

At this stage, use your targeting keys to focus on your next opponent. If all opponents are destroyed or have fled, you have succeeded - Congratulations!



9.1.1 Guns

Available guns come in several different formats. They include energy pulse weapons, energy beam and solid state. Solid state weapons have a finite amount of ammunition, recorded in a counter next to the weapon description. All other energy weapons are powered by the spare capacity of the ship's reactor. This is represented by the red energy bar located in the HUD. For a full description of available weapons, please consult the online **database** <http://vegastrike.sourceforge.net/phpwiki/index.php/VsManualDatabase>.

Firing a weapon will either reduce the amount of finite ammunition, or reduce the surplus energy available. Depletion of ammunition or energy will cause the weapon to cease firing. Where the ship has spare capacity, and energy weapons are not firing, the energy bar will slowly increase back to full. Solid state ammunition may only be replenished at a Weapons Room.

Ships with multiple gun mounts may have several different types of guns available. These are displayed in the left VDU weapons display. The player may cycle between the various available guns, selecting the required gun for firing. The final selection will highlight all available weapons. This selection is called full guns and enables all available guns to fire.

To cycle through available guns, use the key [g]. To fire a selected gun, use the [SPACE] bar (joystick trigger (button [0]) or left mouse button).

9.1.2 Missiles and Torpedoes

Vega Strike has a large selection of missiles and torpedoes available. For an explanation of the effect of each type of weapon, please consult the online **database** <http://vegastrike.sourceforge.net/phpwiki/index.php/VsManualDatabase>. While their effects vary, their operation in combat is the same.

These weapons consist of primarily a solid tube with a propulsion system, guidance system (most models) and a warhead of some type. They are mounted in dedicated weapon racks on your ship, and launched at your opponent. Acting as a miniature ship, your missile or torpedo will approach its target, and when within range will activate its warhead (causing explosive damage or various other effects).

In order to use a missile or torpedo you must first target and lock onto your opponent. This activates the locking mechanism (if any) of your weapon. You will hear a lock tone, and see a diamond appear around your opponent once the weapon has its own lock. To fire, press the [ENTER] key or [KEYPAD ENTER]. As with guns, you may have a selection of different missiles and torpedoes. Where this is the case, you may cycle through them using the [w] key.

9.1.3 Inertial Target Tracking System (ITTS)

Certain upgradeable scanner systems have the ability to track and record your opponent's speed and trajectory. Using this data, plus your ship's speed, trajectory and weapon velocity, the ITTS calculates a lead point located in front of your opponent's ship. This lead point is the aiming location that gives the greatest chance of hitting your opponent. Your lead point appears as a small diamond located at a varying distance in front of the nose of your opponent's ship.



9.1.4 Electronic Counter Measures (ECM)

Electronic Counter Measures are designed to foil missile and torpedo attacks on the craft to which they are installed. Activation of ECM lets loose a barrage of electromagnetic noise, focused false radar/lidar images, Infrared beams, and altered signatures intended to confuse missile targeting systems into misjudging the size, location, and direction of the ECM user. While not necessarily 100% successful, such measures do reduce the number of successful attacks with such weapons. ECM foils an opponent's attempts to reduce shields and armor on your ship, let alone suffering the effects of more sophisticated attack methods.

ECM can be activated and de-activated using the [e] key. ECM is also self-activating on detection of an approaching missile or torpedo. The use of ECM is draining on your ship's reactor; therefore you will note that weapon and jump energy may reduce while ECM is activated. Provided your ship's reactor has spare capacity, de-activating your ECM will restore those energy levels.

9.1.5 Cloaking Device

A cloaking device has the effect of rendering your ship invisible to the naked eye and electronic detection equipment. It does so by using a gravity lens to 'bend' emitted radiation (visible light and detection signals) around your ship. From a detection point of view, the ship is 'invisible' to detection equipment; and to the naked eye all that is visible is the background behind the cloaked ship, enclosed by a faint ship's outline. Unfortunately, use of a cloaking device requires both a substantial supply of power, and deactivation of your shields to minimize emanations.

Key [c] activates and de-activates a cloaking device once installed.

9.1.6 Tractor Beam

A tractor beam utilizes gravitic technology to attach an ionized energy beam to a target. Once activated, the beam will increase gravitic power, thereby drawing the targeted object closer to the tractoring ship. Once close enough, and the object is sufficiently small, it will be stored away in the ship's cargo bay.

Where your ship is not equipped with a tractor beam, but is capable of being equipped with one, go to the Weapons Room and acquire it. If your ship isn't capable of equipping a tractor beam you may want to buy "tractor capability" beforehand. *(ED: does anybody know what requirements your ship must meet to do this?)*

A tractor beam is commonly used to capture loose cargo pods and miscellaneous debris - typically being employed after a battle. A favorite with pirates, it is also used by merchant fleets to transfer cargo between ships and on mining ships extracting raw materials from asteroid fields.

An interesting usage of the tractor beam is where a sufficiently large ship (such as the Ox) employs a tractor beam to capture whole ships (typically fighter craft). Once rendered inoperative, the craft are tractoried into the cargo bay and transported for sale at the next point of call.

A derivation of the above, is the use of pre-purchased cargo ships as wingmen. Please refer to Cargo Wingmen (p53) for further information.

Vega Strike

A tractor beam is installed to a gun mount in the same manner as any other weapon. To use a tractor beam, cycle through your guns using [g] to select the tractor beam alone. Target and lock onto your object of interest, use [HOME] to match speed, [TAB] to after burn close to the object and fire the tractor beam using [SPACE BAR] to capture the object.

9.1.7 Turrets



Figure 20 A View to a Kill. Turret view over the rear of a Mule.

While most ships have forward firing weaponry mounted, many ships, including large fighters, cargo haulers and capital ships, also mount turrets located in various positions around the hull. As these ships are generally unable to engage in a dogfight requiring high maneuverability, these turrets form the main line of offense and defense.

While turrets vary in size and firepower, they all operate in a similar manner:

Press [] to select and enter a turret. Repeatedly pressing this key will return you to your cockpit, then cycle between any additional turrets and the cockpit.

Turrets must be activated to use their own Artificial Intelligence. To toggle the AI of your turret, you must press [o]. This will activate the turret, which will then proceed to attack your current target. Pressing [o] again will deactivate the turret.

Turrets can also be told to attack a target. While in forward [F1] view, select their target and press [P]. Once they attack this selected target, you may change targets, while your turrets continue on the original.

9.2 Death

9.2.1 Ejection

When your craft is disintegrating around you, you must make a split second decision: do I die, or eject from the remains to fight again another day.

Ejecting from your ship places you in an ejection pod. This pod is fully enclosed and self contained, with limited shields, weapons and its own propulsion. Ejected pilots are then able to make their way back to a friendly base, as though they were piloting a normal craft.

While the pilot is now missing both a ship and any cargo carried, all funds are retained. Thus, a new ship can be outfitted, or where the pilot maintains a fleet of ships, one can be called under My Fleet.

Activation of the ejection sequence is via the key [E]. You may then maneuver the ejection pod as if it were a normal ship.



9.2.2 Self-Destruct

Frequently used to rid a player of a pilot character to which they hold no further interest, a player may self-destruct the current game. Doing so causes the destruction of the current ship, and the death of the pilot.

The game will restart as though a new game had been selected.

Activation of the self-destruct is via the key [!].

9.2.3 Respawning

It is the nature of the Vega Strike universe that any travel a pilot makes, is made at their own risk. Sadly, in spite of the skills of the pilot, the ship type, and the upgrades on board, it may well be that your character will die - nobly in battle, or ignobly as a smear against the side of a station or capship.

Death in Vega Strike is not finite. While you may, if you wish, start right from the beginning in a new game, with a fresh Llama, no jump drive and 13500 credits, most players use the option to respawn.

Respawning returns the pilot to the last saved game. You lose any missions or mission cargo you were carrying, but at least you have your health and your ship.

To respawn a character, press the semi-colon key [;].

9.3 Miscellaneous Gameplay Functions

9.3.1 Quitting

Quitting and exiting the game may be accomplished in two ways. While in flight, press [ESC]. This brings up the quit function in the background operation of Vega Strike. Pressing [q] will then quit the game. Otherwise, press [ESC] again to return to normal flight. To quit from a base, enter a base computer screen, select [Save/Load], then [Quit Game]. Please refer to In Game Menu (p36).



9.3.2 Pause

To pause during play, select either the [PAUSE] key or use pipe [|]. Press again to resume play.

9.3.3 Time-Compression

(ED: This function now serves more as a debugging tool rather than for general gameplay, but is included here as all players still have general access to this function.)

Time compression speeds up the passing of time in Vega Strike. This is useful when a developer requires time to pass quickly. This could occur where a pilot is manually flying toward a target, or waiting for the fuel bars to regenerate to full.

Press [F9] to activate or increase, and [F10] to deactivate.



9.3.4 Music

Both music and sound are an integral feature of Vega Strike, providing the right mood and atmosphere; whether on a base, in the middle of space or a major battle. While initial settings for volume are determined at configuration, these settings can be adjusted in game. The player may also skip any music track being currently played.

Refer to the controls below:

Name	Key	Description
Skip Music Track	[S]	Skip Music Track
Sound Volume Up	[.]	Sound Volume Up
Sound Volume Down	[,]	Sound Volume Down
Music Volume Up	[>]	Music Volume Up
Music Volume Down	[<]	Music Volume Down



10 Glossary

“Vertex Arrays” - Vertex (drawing) data is stored in an array (record). OpenGL needs only call on the array, rather than execute every command in the array. In effect, OpenGL draws a star ship each time one is needed - need five, draw five times.

“Compiled Vertex Arrays” - Vertex data in an array can be locked down when it is expected to be used multiple times. In effect, OpenGL does not recompute the locked array data until all surfaces using that data have been drawn. OpenGL copies a starship only when the vertex array is compiled ... if more than one ship is on screen then it will only need to download it the first time to the card.

“Display Lists” - This setting takes vertex commands and stores them for later execution - that is, define your drawing for multiple execution later. While vertex arrays can do this with a lesser amount of memory, display lists can operate faster. Graphics hardware may store display lists in dedicated memory, therefore increasing speed and efficiency, as well as offsetting the need for extra memory. So this setting will download a starship to the video card when the starship is drawn ... being much faster than copying it each time it is drawn. Recommend do not use this setting if you do not have a high powered graphics hardware card.

“Separate Specular Color Vertex Lighting” - This setting identifies the bright specular highlights that occur when light hits an object's surface and projects onto your ship's reflectivity analysis of the surface. In effect, you get a shine effect on an object that changes depending on where both the viewer and the sun are.

“Per Pixel Lighting” - Per-pixel lighting offers the ability to calculate lighting effects at the pixel level, greatly increasing precision and realism in a scene. This setting in effect, makes the lighting effects sharper, more defined. Per pixel specular lighting is best with a pixel shader - not truly necessary, but you suffer a big performance hit otherwise. GeForce3, Radeon 8500 and later video cards have this shader. Where game performance is slow or you have an older generation card, do not select an option with Per Pixel Lighting.

“Reflection” - Is an environment map (picture of background). This map is used where the visual mesh is declared to be specular and is projected onto your reflectivity analysis of the surface (your view). One result is that objects become capable of reflecting light and can act like a mirror surface.



11 History

Year	Title	New Author	Publisher
2001	Readme.txt	Daniel Horn	(unpublished)
2004	Vega Strike Player's Guide (Draft) v1.0.6	Kim Scutts	(unpublished)

12 Resources

Vega Strike Homepage

Find the latest news, files, forums and all other Vega Strike related information at this website:
<http://vegastrike.sourceforge.net>

Vega Strike Forums

Follow the latest conversations amongst the Vega Strike community here:
<http://vegastrike.sourceforge.net/forums>

Vega Strike Files

Find the latest stable releases for all platforms here:
<http://vegastrike.sourceforge.net/files/index.html>

Vega Strike Project Page

Find both the current and historical source code for both the stable releases and unstable developer's copies:
<http://sourceforge.net/projects/vegastrike>

Online Player's Guide

An online copy of the information contained in this guide plus the latest changes are available at the website:
<http://vegastrike.sourceforge.net/phpwiki/VsManual>



13 Appendix 1: Tutorials

Where ever you see letters in bold and bracketed (for example: **[LMB]**), please press that key. Note that **[LMB]** and **[RMB]** are left and right mouse buttons respectively.

13.1 Tutorial 1: First Arrival

After your first flight in your own ship, you arrived at a small, Bio Diverse Planet by the name of Wiley. Setting down with a sigh of relief, your first thought was to go in search of some rest and recreation, and then you'd see what the universe had to offer!

It is suggested that the player read **Chapter 7** before continuing.

After loading Vega Strike, the first screen to appear in front of you is the Concourse for the Bio Diverse Planet Wiley. Notice in the centre view is your ship, currently located on the Landing Pad. Located around your ship are various access points to the remainder of the base. Use your mouse and scroll around your screen. At certain locations, you will notice writing appear at the base of the screen. This writing informs you of an access point, and what location on the base it will lead you to. Alternatively, click the **[RMB]**, which takes you immediately to each point in sequence.

The Bar (p35)

Locate 'the Bar' since we're after a bit of R&R. When the access point is highlighted and the name appears click the **[LMB]**. This activates the location, and 'The Bar' will appear as a new interactive screen. Here at the bar, you can always chat to the bartender to get the latest information, game play hints and gossip. Highlight the bartender, and click the **[LMB]**. His conversation will appear at the top of screen. Repeated **[LMB]** clicking will trigger various conversations.

Above the bar is a holo-vid screen. Highlight and click the **[LMB]**. This takes you to the News Screen. Since we have only just started the game, there has been no news. Later, accessing this screen will let you see the latest news happening all around the known universe. **[LMB] [Done]** button on the screen to exit and return to the bar.

Occasionally, fixers will appear in the foreground of the screen, usually seated at a table of some sort. Fixers make available various missions, equipment or knowledge for playing Vega Strike. If there is a fixer here, highlight the fixer and click the **[LMB]**. The fixer will discuss whatever it is that concerns them, and should they offer you a choice, a decision menu will appear. For now, select **[No]** on the screen with the **[LMB]**.

Locate the bar exit point, and **[LMB]**. We arrive back at the **Concourse**.



Mission Computer (p26)

Well, I've had a drink, so what's a pilot do for fun around here?

From the Concourse, locate and enter the Mission Computer using the same process used to enter the Bar. Look familiar? Here we are, back at the News Screen, but there is a difference. You can access the News Screen from either the bar or via the Mission Computer. You will notice, however, the top of the screen shows two buttons, **[News]** and **[Missions]**. The **[News]** button accesses the News Screen in the Mission Computer. The **[Missions]** button accesses the Mission Screen. **[LMB] [Missions]** button.

We are now in the Missions Screen. From here, you can review what basic missions are available. While fixers offer more dangerous, more interesting (and more lucrative) missions, they are often few and far between. The missions here are more standard in nature (but not necessarily less dangerous!). **[LMB]** on one of the green categories. The category expands to show the available missions of that type. Highlight one and click the **[LMB]**. Notice that the details of the mission appear in the right hand screen. If you wanted to accept the mission, you would **[LMB] [Accept]** at the bottom of the screen. We're not quite ready for missions, however, so we'll leave the Mission Computer and return to the Concourse using the **[Done]** button.

Cargo Computer (p24)

If I want to get anywhere in this universe, it's going to take money, and lots of it!

The simplest way to make money is to trade cargo. Buy where it's low priced, and sell high. To do this, you need to access the Cargo Computer. Notice at the top of the screen, the type of base you are on (Wiley is a Bio Diverse Planet). Underneath, you may note that you have 13,500 credits to spend, and 500 cargo spaces to fill. Your aim here is to obtain as much low priced cargo as you can afford and that your cargo space can take. The types of cargoes available are classified by category with many having subcategories.

A Bio Diverse Planet is typically a rural type of planet, big on producing natural products such as food, timber and other renewable resources. As such, select the Natural Products category. You will see a drop down of subcategories: Food, Liquor, Natural Resources and/or Plants. Don't be worried if one or more don't appear, not all places produce the same goods all of the time.

Lets look at what Food is produced at Wiley. The Food subcategory opens out to show various types of cargo, colored white. This means that we have both the room in our cargo bay to fit the cargo, and the credits to buy them. If we didn't, they would be red in color, and we wouldn't be able to buy them. Highlight the first cargo under Food. Notice that three buttons appear in the centre of the screen, **[Buy]**, **[Buy 10]** and **[Buy 1]**. These buttons let you buy (respectively) all the cargo available, ten (10) of the cargo, or one (1) of the cargo. Press **[Buy]**. Notice how the cargo disappears from the left, and appears in the right screen? Similarly, your credits and cargo space have reduced. You have now bought the cargo. If you wanted to sell the cargo, you would highlight it in the right screen, and click the **[Sell]** button that appears.



We want cargo to trade, though, so stay in the left screen. Repeat the above sequence to purchase as much cargo under Food as you can. Most likely, you will have credits and room in the cargo bay to spare. If so, move on to the next subcategory and purchase what you can from there.

When you cannot buy more Natural Products (due to lack of credits, lack of cargo room or no more cargo available), click on the **[Save/Load]** button. This takes you to the In Game Menu. From here you can exit the game, save your game or reload a previous save. Highlight your pilot's name, **[LMB]** **[Save]** and confirm to save your game. If anything happens later, we can always reload.

[LMB] **[Done]**, and exit back to the Concourse.

Weapons Room (p30)

Fireworks! Lots and lots of fireworks!

Our last point of call before leaving is the Weapons Room. If you want to repair, upgrade or change your ship, this is the place to do it. From the Weapons Room, locate and access the Upgrade Computer. This computer is operated in a similar manner to the Cargo Computer. Feel free to have a look at the available upgrades at Wiley. Since you used your credits to buy your cargo, you probably can't afford anything here. After a cargo run or two, you will hopefully have enough credits available to be able to afford something from here. For now, just note that the right screen shows the upgrades currently on your ship. If you get into trouble, at least you have something to fight back with!

13.2 Tutorial 2: Your First Cargo Run

Well, that was a nice, peaceful interlude. Wiley isn't so bad, but I'm not the type of person who's happy, covered in dirt and dust unless it's from a spaceport. I've got wanderlust, and a whole universe to indulge it with!

It is suggested that the player read **Chapter 8** before continuing.

Well, that's the whole point isn't it? You're the type of person who sees life as a journey to the grave, not with the intention of arriving safely in a pretty and well preserved body, but rather to skid in broadside, thoroughly used up, totally worn out, and loudly proclaiming 'Wow! What a ride!' If you want the stars, though, there are a couple of procedures to follow.

Return to the Concourse and locate your ship. Sometimes, the Concourse may have access to a Landing Pad, but either way, you want to find your ship and highlight it. **[LMB]** your ship to initiate the launch sequences.

After lift-off, your screen will be replaced with a Heads-Up Display (HUD). Overlaying that will be a large box, your Nav Map. Use **[M]** to hide the Nav Map, since you are following this tutorial. Later, you will use the Nav Map to find your way around the known systems. Right now, though, you should be looking into space.



Press **[t]**. This cycles your targeting system (p50). Notice the right video display unit (VDU) changes its name and picture. On screen, a box may appear around some feature in the distance, and your detection array (the circles at the bottom of the screen), will show a '+'. This is your current target. This could be a destination, point of interest or hostile spacecraft. Press **[t]** repeatedly until the Mining Base Plainfield is targeted. Press **[I]**. This locks onto the targeted base. Using your mouse, keyboard or joystick, re-orient your ship until the solid gray box (representing the location of the base) is in the centre of your screen.

Now that we're pointed in the right direction, we want to get there. Press **[=]**, **[+]** or **[KP+]**. You will see a couple of indicators above the detection array increase from zero (0). These represent your set velocity and current velocity. Repeatedly pressing (or holding down) these keys will increase this number to a maximum point. Alternatively, **[\]** will set your maximum velocity, to which your current velocity will eventually match.

Doesn't feel like we're going anywhere does it? That's because space is *vast!* Under normal propulsion, you could take months to reach your destination. Ships in Vega Strike, however, are equipped with a SPEC drive that enables inter-planetary travel to be accomplished quickly.

Press **[a]**. Notice the number below your current velocity increases from one (1) to a large number. Similarly, the stars start streaking by. You have activated your SPEC drive. While away from gravity wells, you can travel at tremendous velocities. Leave the drive on for now. You will notice shortly that you are now approaching Plainfield, and the distance indicator in the right VDU is decreasing. Something else you will notice is that your shields disappear. That's the disadvantage to using SPEC drives. It's advised that you not engage your SPEC drive unless or until there are no enemies nearby.

As you approach Plainfield, the SPEC indicator will reduce, and star streaking will disappear. This is because you are approaching another gravity well. You will also notice a haze around your target. This is an asteroid field! Exercise caution whenever you enter an asteroid field, since a solid hit can destroy your ship. Remember too, that since you have used your SPEC drive, you probably don't have any shields. Press **[a]** to deactivate your SPEC drive well before entering the asteroid field and approach under normal power. This gives your shields a chance to regenerate. You should also consider entering the field at less than full velocity, to reduce any damage an accidental hit may do to your shields, or to your ship itself.

Maneuvering closer to Plainfield, you will soon see it in your HUD. The closer you get, the bigger it gets. Common courtesy when you want to dock to a base or land at a planet, is to hail it and request permission to land. Press **[0]** while the base is targeted. As you approach, three green or red boxes will appear around Plainfield. These are the docking clamps. Carefully approach one of the green clamps. As you get close, press **[d]** to activate docking procedures. You may not be close enough to dock, so continue your approach and press **[d]** until docking initiates.

Once docked, your HUD will be replaced with the Landing Pad at the Mining Base Plainfield. Using the skills from Tutorial 1, access the Cargo Computer, and sell your cargo. Don't forget to save! Your cargo bay should be empty, and you should have more credits than you started with.

Congratulations! You have made your first cargo run!



13.3 Tutorial 3: Making Some More Money

Well, that wasn't so hard was it? Used my head, bought some cargo, moved it where its needed and sold it, making some money out of the deal. I'm going to need more though. I've got lots of cargo space, and I don't want pirates getting their hands on anything in MY hold!

Obviously, you're going to need more money than what you made from your first cargo run. Repeat the process in tutorial 2, buying cargo at low prices, traveling to another base and selling high. The key is to find out what cargoes will make the most money, depending on the base you're buying from, and planning to sell to. This comes from experience, and landing at different bases.

As a hint, we recommend buying Raw Materials such as Gems, and transporting them to another Bio Diverse Planet. For your second run, take what gems you can buy to the Bio Diverse Planet Dakar. Don't go back to Wiley until your forth run, to give it time to generate more Natural Products. From Dakar, take Natural Products to the Mining Base Serenity, picking up Raw Materials to take to Wiley. This is a pretty good circuit to begin with, building up some credits.

Along the way, don't forget to upgrade your ship! Adding more weapons, shields, armor, reactor power and various other upgrades will improve your ship over and above what you started with. It is a balancing act, spending credits on upgrades, as opposed to buying more cargo to make even more credits with, but eventually, someone is going to notice you, moving around the system and making money. Eventually, you will have to face a hostile opponent, and engage in combat.

13.4 Tutorial 4: Combat

It had to happen. Some nosy pirate, interfering Luddite or worse, an Aera force had to muscle in on my money making. What's a pilot to do?

It is suggested that the player read **Chapter 9** before continuing.

Vega Strike is a dangerous universe. Somewhere, sometime, a pilot has to be prepared to kill or be killed.

So, are you going to panic, or go in, guns blazing? Usually you realize you are about to have a battle because of a change in the music tempo. Another indicator is the missile lock light flickering in your HUD. Either way, something's got to give.

Once you are aware of hostile opponents, Press **[h]**. This will target the closest one. You could use other targeting keys, but **[h]** gives the quickest result, and the closest threat. Re-orient your ship until you facing your target. While doing this, switch your left video display unit (VDU) to guns and missiles using **[m]**. Cycle through your gun selection using **[g]** until you are happy with your gun load out. Similarly, use **[w]** to select your missile load out.

Your personal preferences will eventually suggest an attack velocity, but for now, have your Llama set velocity at 800 - a reasonable speed, but not to fast. Your aiming reticule (the circle and cross in the centre



of the HUD), should be directly over your opponent if you are head to head or on their tail. Otherwise, you want to aim slightly in front of their direction of travel, as your weaponry takes a small amount of time to travel between your respective positions (this is called leading your target). Once within range of your various weapons, trigger your fire control ([SPACE] or [LMB] for guns; [ENTER] or [RMB] for missiles; or your appropriate joystick buttons). Expect your opponent to try to evade your fire, so make sure you keep your weapons on your target.

Note the right VDU. This shows your opponent surrounded by its shields. As you fire upon your opponent, these shields will steadily reduce to nothing. Further hits on your opponent will then damage armor, and finally any critical ship components. The ship's icon in the right VDU will redden as your opponent takes damage. Meanwhile, keep an eye on your shields in the bottom left of the HUD. Your opponent is trying to do the same to you. Combat, therefore, involves your attempting to reduce your opponent's shields and armor, and evading your opponent's returning fire, since they are trying to do the same to you.

Eventually, one ship (whether through luck, skill or superior hardware) will defeat and destroy the other. You want it to be you, since the other doesn't bear thinking about. You will be rewarded by a suitably large explosion as your opponent comes apart at the seams. At this point, press [h] again to cycle to your next closest opponent. If you find one, follow the above process and destroy them, ship by ship. It is highly recommended that you destroy your first opponent before attacking another. This ensures the first opponent does not have time to regenerate their shields, which you have just spent time and energy removing. Remember, ALL of your opponents will be attacking you, so your ship is losing shields and armor, and time is of the essence.

If no opponents remain then congratulations! You have survived your first battle! Now, assess your damage. It may be that you now need to seek repairs to your ship. If so, dock at the closest habitable base or planet. Proceed to the Upgrades Screen (p30) and select **Basic Repair**. You may need to replace various ships' components too. While you are here, replace any missiles used, you never know when you'll need them next.

13.5 Tutorial 5: What Next?

This ends this series of tutorials. You should now have the basics on how to move about on a base, navigate the stars and defend yourself against danger. Make some more credits, upgrade or even change your ship. When you have enough credits to spare, go see Jenek at Wiley, and buy that jump drive off of him. Then, feel free to journey to the stars!



14 Mods

While Vega Strike has its own universe, at heart it is a separate space flight engine, with data files attached to create a universe for the engine to be used in. As such, the Vega Strike engine lends itself easily for use in other universes. Listed below are some of the current mods. Included are details of any changes to the preceding manual to reflect the specific mod's requirements.

A full listing of current mods and associated information is located at <http://vegastrike.sourceforge.net/phpwiki/index.php/VegastrikeMods>

Below is a non-exhaustive list of the current mods, containing brief information on the mod, and changes to the manual for play purposes.

14.1 Vega Trek

14.1.1 What is it?

The first mod for Vega Strike, Vega Trek introduces the world of **STAR TREK**® to the concept of wheeling and dealing. Ever wanted to beat the Ferengi® at their own game? Prey on the Cardassians® as they prey on others? Every wanted to replay one of the historic battle scenarios, to see if YOU could have made a difference? Then this is the game for you.

14.1.2 Manual Changes

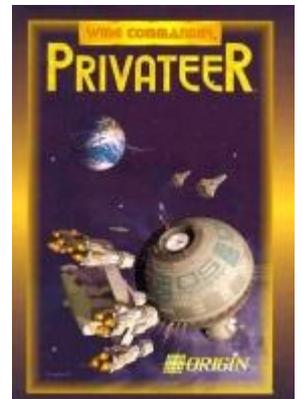
Under development, so currently Vega Strike default commands.

14.2 Wing Commander® Universe: Privateer® Remake

14.2.1 What is it?

“Privateer takes you to the seamy side of the Wing Commander® universe. In the far reaches of space, you live by no man's rules but your own. The fringes are populated by a volatile mix of pirates, miners, mercs and Kilrathi®, all struggling to make a quick buck. With advanced technology pioneered by Wing Commander® and Strike Commander®, Privateer® gives you the excitement of head-to-head space combat and the challenge of survival in cutthroat trading circles on the frontiers of civilization.”

Considered by many as one of (if not the) grandfather of Space Simulation games, Privateer was released by  in 1993. Based within the Wing Commander® universe, it allowed the player freedom to play a game in a non-linear manner. Of course, there was always the fixer mission for Sandoval...





Sadly, this game is difficult (if not well nigh impossible) to run on modern games systems. For those not inclined to maintain a second computer to run older games, the Privateer Remake plans to re-introduce the world of Privateer[®] using the Vega Strike engine.

Future plans intend to build on the Privateer Remake, to involve the whole of the Wing Commander[®] series and universe.

With thanks, and for more information on Privateer[®] and the world of Wing Commander[®], go to www.wcnews.com.

14.2.2 Manual Changes

A separate manual is provided with the game files.

14.3 Babylon 5[®]

14.3.1 What is it?

14.3.2 Manual Changes

To be advised

14.4 Vega Wars

14.4.1 What is it?

George Lucas's **STAR WARS**[®] retold the classic swords and sorcery tale of a hero seeking to rescue the princess, running afoul of an evil empire, with death and glory along the way. Vega Wars will be based in the **STAR WARS**[®] universe, including a series of missions in campaign format, and incorporating Vega Strike's bounty hunter style of play.

14.4.2 Manual Changes

Under development, so currently Vega Strike default commands.



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16 Quick Key Guide

16.1.1 Navigation-Direction Keys

Name	Key(s)	Command	Description
Up	[CURSOR -UP] [KP-8]	<i>UpKey</i>	Align thrusters up, moving nose of your ship down.
Down	[CURSOR -DOWN] [KP-2] [KP-5]	<i>DownKey</i>	Align thrusters down, moving nose of your ship up.
Rotate Right	[CURSOR -LEFT] [KP-4]	<i>RightKey</i>	Rotates your ship to the right.
Rotate Left	[CURSOR -RIGHT] [KP-6]	<i>LeftKey</i>	Rotates your ship to the left.
Roll Right	[DEL] [*] [KP-*]	<i>RollRightKey</i>	Roll your ship to the right.
Roll Left	[INS] [/] [KP-/]	<i>RollLeftKey</i>	Roll your ship to the left
Jump Drive	[j]	<i>JumpKey</i>	Press this to jump to another system. You must be in range of a jump point.
SPEC Drive	[A] [a]	<i>AutoKey</i>	Activate speed multiplying SPEC drive.

16.1.2 Navigation-Speed/Velocity

Name	Key(s)	Command	Description
Decelerate	[-] [KP--]	<i>DecelKey</i>	Decrease set velocity of your ship.
Accelerate	[KP+] [=]	<i>AccelKey</i>	Increase set velocity of your ship.
Afterburner	[TAB]	<i>ABKey</i>	Will accelerate your ship past set velocity. Afterburn velocity is not constant, and must be maintained by holding down the TAB button. Velocity will decrease to set velocity when released.
Match Velocity	[HOME]] [KP-7]	<i>SetVelocityRefKey</i>	Sets your zero velocity to your target's current velocity.
Reset Velocity	[END] [KP-1]	<i>SetVelocityNullKey</i>	Reset your zero velocity relative to the system's sun.
Stop	[BACK]	<i>StopKey</i>	Set current velocity to zero.

	SPACE]		
Full Throttle	[=]	<i>StartKey</i>	Set your velocity to maximum ship capable velocity.
Shelton Slide	[`]	<i>SheltonKey</i>	Perform a Shelton Slide. You can change your heading without changing your direction of travel, but it's not real "six degrees of freedom" movement.

16.1.3 Sound and Music

Name	Key	Command	Description
Skip Music Track	[S]	<i>Cockpit::SkipMusicTrack</i>	Skip Music Track
Sound Volume Up	[.]	<i>VolumeInc</i>	Sound Volume Up
Sound Volume Down	[,]	<i>VolumeDec</i>	Sound Volume Down
Music Volume Up	[>]	<i>MusicVolumeInc</i>	Music Volume Up
Music Volume Down	[<]	<i>MusicVolumeDec</i>	Music Volume Down

16.1.4 Communication (General/Wingmen)

Name	Key	Command	Description
Form Up Wingmen	[F]	<i>CommFormUp</i>	Tell your wingmen to form up.
Break Wingmen Formation	[B]	<i>CommBreakForm</i>	Tell your wingmen to stop forming up.
Help Me	[H]	<i>CommHelpMeOut</i>	Tell your wingmen to help you. They will attack the ship(s) attacking you.
Wingman Attack Target	[D]	<i>CommAttackTarget</i>	Tell your wingmen to attack your selected target.
Talking to other ships/stations	[1]->[9]	<i>Comm1Key->Comm2Key</i>	You can talk to other ships/stations/whatever by pressing one of this buttons where the number means the aggression in your voice. 1=friendly 9=insulting
Request Docking Clearance	[0]	<i>RequestClearenceKey</i>	Select a target (station/capship) you want to dock with and press this key. You will get an audio feedback about your permission to dock. Additionally there will pop up green/red squares at the dock positions (only if you are near enough).

16.1.5 Target-Select

Name	Key(s)	Command	Description
All Units/Targets	Forward:[t] Backward:[T]	<i>TargetKey</i> <i>ReverseTargetKey</i>	Switches through all targets in current system.
Significant/Neutral Units/Targets	Forward:[n] Backward:[N]	<i>SigTargetKey</i> <i>ReverseSigTargetKey</i>	Switches through all significant/neutral targets in current system.
Non-planetary/Non-natural Units	Forward:[u] Backward:[U]	<i>UnitTargetKey</i> <i>ReverseUnitTargetKey</i>	Switches through all Non-planetary/non-natural units (such as capships and fighters) in current system.
Hostile Units/Targets	Forward:[h] Backward:[H]	<i>NearestTargetKey</i> <i>ReverseNearestTargetKey</i>	Switches through all hostile (to you) targets in current system.
Subunit Select	[b]	<i>SubUnitTargetKey</i>	Switches through the subunits of the ship you have currently selected.
Lock Unit/Target	[l]	<i>LockTargetKey</i>	By pressing this key you can 'lock' your selection on the selected target.
Front Targets	[p]	<i>PickTargetKey</i>	Pressing this key will pick Units in front of you (near the crosshair). Tends to be used to get planets in front of you.

16.1.6 Combat

Name	Key(s)	Command	Description
Fire Weapon/Guns	[SPACE]	<i>FireKey</i>	Fires your main weapons/guns (beams/bolts/chainguns/whatever).
Select Weapon/Gun	[g]	<i>WeapSelKey</i>	Switches through your main weapons.
Fire Missiles/Torpedoes	[RETURN] [KP-ENTER]	<i>MissileKey</i>	Fires your missiles/torpedoes if your ship has some of them equipped.
Switch Missiles/Torpedoes	[w]	<i>MisSelKey</i>	Switches through your main missiles/torpedoes.
Combat/Flight Mode	[y]	<i>SwitchCombatMode</i>	Toggles combat/flight mode: In flight mode you are able to fly at (theoretically) unlimited speed, but after passing a maximum combat speed your shield will reduce due to particles in space hitting it too fast to allow regeneration. Another drawback is you need nearly the same time to slow down again as you needed to speed up. In combat mode your max speed is limited to ensure your shields remain stable.
Cloaking Device	[c]	<i>CloakKey</i>	By pressing this key you enable/disable your Cloaking device (if you own one).
ECM Device	[e]	<i>ECMKey</i>	By pressing this key you enable/disable your ECM Device (if you own one). It will cause incoming missiles to be confused. The ECM-device will constantly draw energy from your reactor.

16.1.7 Turret(s)

Name	Key	Command	Description
Switch Turret Control	[]]	<i>TurretControl</i>	By pressing this button you can switch to the manual control of your turret(s) (if you have one/some equipped) and switch back to cockpit control.
Target for Turret	[P]	<i>TurretTargetKey</i>	Select a target your turret(s) should attack. The target your turrets are attacking is surrounded by a plus sign.
Turret AI on/off	[o]	<i>TurretAIKey</i>	Switch the AI of your turret(s) on/off. Without an AI the turret can still be controlled manually.

16.1.8 Game-Commands

Name	Key(s)	Command	Description
Toggle Quit Mode	[ESC]	<i>Cockpit::Quit</i>	Press [q] after [ESC] to quit the game or [ESC] again to return to game.
Pause	[]] [PAUSE]	<i>PauseKey</i>	Pause the game.
+ Time Compression	[F9]	<i>TimeInc</i>	Start/Increase Time Compression.
Zero Time Compression	[F10]	<i>TimeReset</i>	Stop Time Compression.

16.1.9 Camera-Control

Name	Key	Command	Description
Toggle Cockpit	[F1]	<i>Cockpit::Inside</i>	Cycle between cockpit and HUD view.
Look Left	[F2]	<i>Cockpit::InsideLeft</i>	View to your left.
Look Right	[F3]	<i>Cockpit::InsideRight</i>	View to your right.
Look Back	[F4]	<i>Cockpit::InsideBack</i>	View looking to the rear.
Chasecam	[F5]	<i>Cockpit::Behind</i>	View from above and behind your ship.
Panning Camera	[F6]	<i>Cockpit::Pan</i>	Provides a panning camera view of your ship. Move the camera by pressing (q,z,s,f)
Target Camera	[F7]	<i>Cockpit::OutsideTarget</i>	Press this to see a 3rd-person view of your selected target.
Target Panning Camera	[F8]	<i>Cockpit::PanTarget</i>	Provides a panning camera view of your target. Move the camera by pressing (q,z,s,f)
Zoom View In	[F11]	<i>Cockpit::ZoomIn</i>	Zoom in on target.
Zoom View Out	[F12]	<i>Cockpit::ZoomOut</i>	Zoom out on target.

16.1.10 Info/Mission/Cargo

Name	Key	Command	Description
Map/Info Screen	[M]	<i>Cockpit::NavScreen</i>	Activate/Deactivate Map screen during flight.

Left VDU	[m]	<i>Cockpit::SwitchLVDU</i>	Cycles through all the possible displays in your left VDU
Right VDU	[v]	<i>Cockpit::SwitchRVDU</i>	Cycles through all the possible displays in your left VDU
Scroll Text Up	[PGUP] [KP-9]	<i>Cockpit::ScrollUp</i>	Scroll selected VDU up
Scroll Text Down	[PGDN] [KP-3]	<i>Cockpit::ScrollDown</i>	Scroll selected VDU down
Eject Cargo	[Z]	<i>EjectCargoKey</i>	Ejects the selected (topmost) cargo in your cargo bay into space. Use the scroll text keys to move the appropriate cargo to the top. Useful to get rid of pirates by leaving cargo behind, hiding contraband from security ships, eject unwanted cargo, and launching fighters.

16.1.11 Miscellaneous

Name	Key	Command	Description
Ejection	[E]	<i>EjectKey</i>	Press this key to eject yourself out of your ship sitting in an ejectpod. It has weak guns/shields and will not help you against enemy ships, but it will bring you to the next save and friendly station/ship.
Respawn after death	[;]	<i>Respawn</i>	Restores play to last saved position.
Self Destruct	[!]	<i>SuicideKey</i>	Self destruct ship and pilot death.
Ship Control	[[]]	<i>SwitchControl</i>	Switch control from current to targeted ship.
Activate Dock Procedure	[d]	<i>DockKey</i>	When sufficiently close to green docking markers, this key will activate docking procedures.
Pan Up	[q]	<i>Cockpit::PitchDown</i>	When panning, moves the camera up
Pan Down	[z]	<i>Cockpit::PitchUp</i>	When panning, moves the camera down
Pan Left	[s]	<i>Cockpit::YawLeft</i>	When panning, moves the camera left
Pan Right	[f]	<i>Cockpit::YawRight</i>	When panning, moves the camera right

16.1.12 Unassigned (by default) Commands

Name	Command	Description
Strafe Left	<i>ThrustLeft</i>	xxx
Strafe Right	<i>ThrustRight</i>	xxx
Strafe Up	<i>ThrustUp</i>	xxx
Strafe Down	<i>ThrustDown</i>	xxx
Strafe Forward	<i>ThrustFront</i>	xxx
Strafe Back	<i>ThrustBack</i>	xxx
whatevername	<i>WhateverCommand</i>	Whatever it will do

Esc Quit	F1 Toggle Subunit	F2 Look Left	F3 Look Right	F4 Look Back	F5 Raise View	F6 Lower View	F7 Target View	F8 Target Tracking Subunit	F9 Increase TC	F10 TC Left	F11 Zoom In	F12 Zoom Out	
Shelton Slide	1 Assuaga	2 Assuaga	3 Assuaga	4 Chat	5 Chat	6 Chat	7 Taunt	8 Taunt	9 Taunt	0 Request Docking Clearance	= Increase Velocity	Backspace Stop	
Tab Afterburner	Q Pan Down	W Select Missile	E Eject ECM	R Eject	T Next Target	Y Next Target	U Next Manned Target	I Next Manned Target	O Toggle Turn at Boatright	P Change Ship	[Increase Velocity	J Enter Turnat	Enter Turnat
Caps Lock	A SPEC Drive	S Ship Track Left	D Drook Ship	F Fire Up	G Select Gun	H Next Hostile Target	J Jump Drive	K Jump Drive	L Lock On Target	;Respawn	Enter Fire Missile	Enter Fire Missile	Enter Fire Missile
Shift	Z Jetson Camp Up	X Pan Left	C Cloak	V Cycle Right vDU	B Next Subunit	N Next Neutral Target	M Cycle Left vDU	Space Sound Volume Down	Space Sound Volume Up	/ Up	Shift	Shift	Shift
Ctrl	Win	Alt	Alt	Alt	Win	Win	Win	Win	Win	Win	List	Ctrl	

Key	Shift	Ctrl	Alt
Action	Shift	Ctrl	Alt

- Legend:**
- Combat
 - Targeting
 - Navigation
 - Communication
 - Camera
 - Game Controls

PrtScr	ScrLc	Pause Game
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Insert Fall Left	Home Match Velocity	PgUp Scroll Text Up
Delete Fall Right	End Zero Velocity	PgDn Scroll Text Down

Up Nose Down

Left Nose Left	Down Nose Up	Right Nose Right
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Nmlk	/ Fall Left	v Fall Right	- Decrease Velocity
7 Match Velocity	8 Nose Down	9 Scroll Text Up	+ Increase Velocity
4 Nose Left	5 Nose Right	6 Nose Right	Enter Enter
1 Zero Velocity	2 Nose Up	3 Scroll Text Down	0 Fire Missile