



OOLITE Reference Sheet

Keyboard Guide

Flight Controls

F1	1	Forward (front) view
F2	2	Aft (rear) view
F3	3	Port (left) view
F4	4	Starboard (right) view
↑	↓	Pitch down (dive) / up (climb)
←	→	Roll clockwise / anticlockwise
,	.	Yaw (turn) left / right
ctrl		Fine control of pitch, roll and yaw
W	S	Speed increase / decrease
I		Witchspace Fuel Injectors
J		Engage Jump (torus) drive
H		Hyperspace jump
G		Galactic Hyperspace jump ¹
;		Cycle current MFD ⁸
ctrl	;	Cycle current MFD in reverse ⁸

V		External views ²
Z		Cycle IFF Scanner zoom ³
↑ Z		Reset IFF Scanner zoom
\		Select next Space Compass target ⁴
		Select previous Space Compass target ⁴
↑ L		Contact Station Traffic Control ⁵
C		Activate Docking Computer
↑ C		Activate Fast Docking Computer ⁶
S		Turn off the music while auto-docking
↑ D		Dump one cargo canister ⁷
↑ R		Rotate through the manifest ⁷
,		Show the communication log
Esc	Esc	Launch Escape Pod
:		Select next MFD ⁸
ctrl	:	Select previous MFD ⁸

Combat Controls

A	Fire laser
T	Missile target seek
M	Fire missile (if locked)
U	Unlock missile target
Y	Cycle through available missiles ¹
+	Cycle to next / previous target
R	Activate ID recognition
E	Activate ECM system
-	Toggle weapon lockdown
↑ T	Target nearest incoming missile

Commodities Market Controls

F8	8	Commodities Market
F8	8	Commodity Details
Enter		Buy / sell maximum amount
↑	↓	Move cursor up / down the list
←	→	Sell / buy one unit of commodity
/	?	Change commodity list sort / filter

Note: holding shift while buying or selling will also buy or sell the maximum amount.

Planetary Data

F7	7	Data on Planet
Home		Select current system
End		Select current destination system
←	→	Select previous / next system on course

Ship, Systems & Status Controls

F1	1	Launch the ship
F3	3	Ship Outfitting [*]
F5	5	Commander's Profile
↑	↓	Move cursor up / down the list
Enter		Select the highlighted entry
Tab	0	Fast-activate special equipment

F2 2 Game Menu

F3 F3 3 3 Ships For Sale^{*}

F5 F5 5 5 Ship's Manifest

↑ N Prime next special equipment

ctrl ↑ N Prime previous special equipment

N B Activate special equipment⁹

Navigation Controls

F6 F6 6 6	Galactic Chart
F6 6	Short Range Chart
I	Toggle name/system information view
?	Cycle highlight mode
^	Advanced navigation - cycle route mode

Arrows Move cursor around the charts

Pg Up Zoom chart in

Pg Dn Zoom chart out

Home Return cursor to current system

Note: typing a planet's name while in the Galactic Chart will automatically move the cursor to the world matching the text. When more than one planet matches the text, use shift-arrow keys to move the cursor to the next highlighted world. Use Alt + left / right arrow keys to select the system for which information will be displayed in the F7 system data screen.

Ship-Station Interfaces Controls

F4	4	List available interfaces [*]
Enter		Activate selected interface

↑ ↓ Move cursor up / down the list

← → Move between pages on list

Other Controls - All Systems

P	Pause the game
↑ F	Toggle the game frame rate display
↑ M	Toggle mouse flight control in full screen mode (roll on x-axis)
Caps Lock	Toggle free-look camera in ext. view

O Turn the HUD off / on while paused

* Take a screenshot

ctrl ↑ M Toggle mouse flight control in full screen mode (yaw on x-axis)

Other Controls - System Specific

ctrl ⌘ F	Toggle window / full screen mode
F12	Toggle window / full screen mode

⌘ Q Quit the game (Mac)

↑ Esc Quit the game (PC / Linux)

Notes

X X Tap this key twice

F2 Function key

↑ Shift key

⌘ Mac Command key

ctrl Ctrl key

X Key only available when equipment installed

X Key only available with mod pack equipment

^{*} Only GCW (Galactic Cooperative of Worlds) Stations support all of these functions. Other anchorages may only carry a limited range.

¹ Galactic Hyperdrives are one time use only. To jump again another drive must be bought.

² The key cycles through the available external views of your craft. Ships featured in OXPs may not have external views available.

³ The key cycles through the five magnification setting of the IFF Scanner.

⁴ See the Space Compass section on the next page for more information.

⁵ The key requests a docking window from station launch control. Use the same key to cancel or renew a request.

⁶ Usually allowed at GCW Stations only

⁷ Unless cargo is selected by the commander, dumping cargo will dump one unit from the first commodity listed in your manifest.

⁸ MFDs are multi-function displays which can be configured to show information from various equipped items. Different HUDs will have different numbers of MFDs available. See page 6 for more information on MFD's.

⁹ Function of N and B keys varies with equipment. Not all equipment will define functions for both keys. See specific mod documentation for more information.

This reference sheet makes several references to mod packs. The 1000+ Oolite eXpansion Packs (OXPs) can add extra missions, equipment, ships or change the game mechanics. These mods are not part of the default installation of the game and will not be covered by this sheet. For more information on them and how to install them, visit the Oolite Wiki or consult the in-game **Expansions Pack Manager** (see page 5 for more information).

Attention non-US/UK keyboard users

Some keys may vary from the ones listed here. All keys are alterable via the keyboard configuration screen, accessed from the F2 Game options menu, which is available when docked or paused.



OOLITE Reference Sheet

1 Speed

This is a percentage gauge showing how fast the ship is travelling relative to its maximum speed.

2 Roll and Pitch

The diamonds show how much the ship is anti-clockwise rolling and climbing/diving relative to its maximum turn rate.

Some ships and Huds may also feature a Yaw indicator. It functions exactly the same way as the Roll and Pitch units.

3 Energy Banks

The multiple meters of the Energy Banks show how much energy you have available for ship systems. Recharging your shields, firing your lasers or ECM and direct hits to the ship's hull will drain the banks. If completely drained, the collapse of the energy banks destroys the ship. The number and size of energy banks installed is dependent on the model of ship being flown.

4 Shields

The front (FWD) and rear (AFT) shields, where the bar length equals the shield strength. As the shields weaken, the risk of weapons fire penetrating the shield increases. Any penetration will result in energy drain, along with the risk of equipment damage and the destruction of cargo.

5 Fuel

A gauge displaying how much wormhole fuel is available. If a destination has been selected for a hyperspace jump, a marker line will show how much you need to activate the drive.

6 Cabin Temperature

This gauge shows the ship's life support temperature. Exposure to excessive amounts of heat will overload the life support resulting in the crew's death.

7 Laser Temperature

Displays the heat level of the active laser. Continuous fire raises the laser temperature. An overheated laser will shut down, requiring a cool-down period before it will fire again.

8 Altitude

Shows the proximity of a nearby planet or sun. Exposure to excessive atmospheric and gravitational pressures of such bodies will destroy the ship.

9 Missiles

These icons show what types of, and how many, missiles or other pylon-mounted devices you are carrying, and which one is active (yellow border). When a weapon has been locked on to the target, its icon turns red.



Empty pylon



Active standard missile



ECM hardened missile target locked



Quirium cascade mine target locked

Should you see a green square replacing the missile information, this means that you have used ID Recognition without a missile being active.

MISS GalCop Viper Interceptor

Installing additional equipment will allow you to keep a target lock with one missile while target seeking with another.

Mods may add additional pylon-based equipment for purchase. See the mod documentation for more information.

10 Fuel Scoop

The Fuel Scoop icon will be added to the HUD when one is fitted to the ship. When the fuel scoop is active, the icon strobos. If the tail of the icon becomes red, then your cargo bay is full and any new object scooped will be destroyed.

11 Station Aegis

The Station Aegis is the area of space around a GCW station where its Vipers will provide protection to your ship should you come under attack.

12 Primed Equipment

Displays currently primed OXP equipment, which can be activated with the "b" and "n" keys. See page 6 "MFDs and Primable Equipment" for more information.



Heads Up Display

13 Threat Indicator

This is an indicator showing the current level of risk to your ship. When green, there are no other ships within scanner range. Yellow indicates that there are objects within scanner range. When the indicator turns red, other ships have targeted you.

14 Date and Time

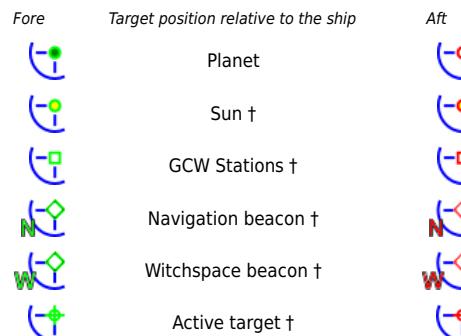
The current date and time, set to Galactic Cooperative of Worlds Mean Time.

15 Scanner Zoom

The zoom ratio displays the current magnification setting of the IFF scanner.

16 Space Compass

The Space Compass shows the direction of the target relative to the direction of the ship. The default target of the space compass is the planet. When inside the GCW Station Aegis, the compass will target the station.

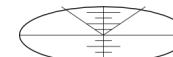


Additional compass targets may become available with the installation of mods. Refer to the individual mod documentation for more information.

† In order for stations to become manually selectable the Advanced Space Compass equipment is required to be installed.

17 IFF Scanner

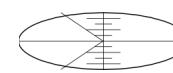
The IFF Scanner Grid shows the relative positions of all objects within scanner range of the ship. The V lines show which direction you are currently viewing. The rule lines show the scale the scanner is working in.



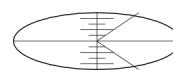
Forward (front) View



Aft (rear) View



Port (left) View



Starboard (right) View

Each object is represented by a colour-coded flag and pole. The length and position of the flag pole represents the object's direction and distance from your ship. The flag's position on the pole indicates whether the object is above or below your ship.

Non-powered objects ¹

Civilian craft

Hostile craft

Police/Government craft

Police/Government craft on intercept

Thargoid craft

Missile ²

Mine about to detonate ²

Space stations and other anchorages

Navigation and wormhole beacons

Wormhole cloud

The twin colour flags are the colours that those IFF flags cycle through.

¹ Non-powered objects include asteroids, cargo pods, and abandoned craft.

² Certain OXPs will add extra types of munitions to Oolite. The game will use the missile or mine IFF flag to show them.

Note: The layout shown here is for the Faulcon deLacy Cobra Mk III which you are issued with at the start of the game. Other vessels may have alternative instrument configurations.



OOLITE Reference Sheet

Equipment Guide

Item	TL	Cost ⚡
Advanced Navigational Array (ANA)	7	2250
Advanced Space Compass (ASC)	8	650
Beam Laser	5	1000
Docking Computers (DC)	10	1500
ECM Hardened Missile	10	350
ECM System (ECM)	3	600
Escape Pod (EP)	7	1000
External Heat Shielding (HS)	5	1500
Extra Energy Unit (EU)	9	1500
Fuel	All	Varies
Fuel Scoop (FS)	6	525
Galactic Hyperdrive (GH)	11	5000
Integrated Targeting System (ITS)	12	1500
Large Cargo Bay (LCB)	2	400
Maintenance Overhaul	7	Varies
Military Laser	11	6000
Military Shield Enhancement (MSE)	14	47550
Mining Laser	11	800
Missile	2	30
Multi-Targeting System (MTS)	6	325
Passenger Berth	6	825
Pulse Laser	4	400
Quirium Cascade Mine	7	2500
Remove Passenger Berth	2	100
Scanner Targeting Enhancement (STE)	12	450
Shield Boosters (SB)	11	14750
Target System Memory Expansion (TSME)	9	1250
Unmount and sell all pylon-mounted weapons	2	20
Witchdrive Fuel Injectors (FI)	11	600
Wormhole Scanner (WS)	10	2395

Equipment damage can only be repaired in systems of that Tech Level or one lower. The listed prices apply only to GCW station shipyards. Prices may vary in other anchorages. Additional equipment can be obtained by installing mods. See the individual mod documentation for more information on their cost, availability and use.

Commodities Guide

Commodities	Min	Avg	Max	per
Food	2.0	4.8	7.9	t
Textiles	5.2	7.0	9.0	t
Radioactives	17.3	22.8	28.8	t
Slaves †	2.4	14.7	27.9	t
Liquor/Wines	20.7	28.6	37.4	t
Luxuries	78.4	90.8	101.9	t
Narcotics †	0.5	50.9	101.4	t
Computers	61.3	83.0	102.2	t
Machinery	46.5	56.4	65.5	t
Alloys	31.6	38.8	45.6	t
Firearms †	49.8	70.3	88.5	t
Furs	45.4	69.7	95.2	t
Minerals	10.0	11.9	13.9	t
Gold	35.3	38.7	42.2	kg
Platinum	62.6	71.6	81.0	kg
Gem-stones	15.3	19.5	23.8	g
Alien Items	21.3	44.8	65.7	t

† Trafficking in these commodities is illegal in all GCW member systems.

Note: These prices are indicative only. GalCop regulations expressly forbids the broadcasting of actual prices beyond the current system. Prices may also vary widely at non-GCW stations.

Combat Rank

Rank	Kills
Harmless	0
Mostly Harmless	8
Poor	16
Average	32
Above Average	64
Competent	128
Dangerous	512
Deadly	2560
Elite	6400

Government Guide

Risk	Icon	Type
Negligible	⬆️	Corporate State
Low	➡️	Democracy
Medium	⭐️	Confederacy
High	⬇️	Communist
Extreme	⚡️	Dictatorship
	⚡️	Multi-Government
	🏰	Feudal
	🚫	Anarchy

Economy Guide

Produces	Icon	Type
Advanced technology	⚙️	Rich Industrial
Basic technology and Advance Materials	⚙️	Average Industrial
Mixture of both	⚙️	Poor Industrial
Advanced organics and Refined Materials	🌾	Mainly Industrial
Basic organics and Raw Materials	🌾	Mainly Agricultural
	🌾	Rich Agricultural
	🌾	Average Agricultural
	🌾	Poor Agricultural

On the F6 chart screen, press the "?" key to cycle the highlighted information between:

- Sun color
- Economy type
- Government type
- Tech level

Heads Up Display

Legal Status

Status	The commander can expect
Clean	Free travel and access to GCW Stations. Full protection by GalCop Vipers.
Offender	Free travel and access to GCW Stations. Limited protection by GalCop Vipers, but could also be targeted at law enforcer's discretion. Small bounty on the commander.
Fugitive	Limited travel and access to GCW Stations. Actively targeted by GalCop Vipers. Large bounty on the commander.

All commanders start as Clean, with any criminal acts reducing their legal standing. Performing services for the GCW will repair their reputation.

GCW Orbital Laws

Services

Defence Of GCW Space

Providing assistance to the Galactic Navy by the destruction of Thargoid Invasion Fleet craft.

Space Lane Hazard Clearance

Destruction of navigation hazards from the space lanes, i.e. asteroids and wreckage.

Termination Of Criminals

Providing assistance to GalCop by the destruction of Offender and Fugitive rated craft.

Crimes

Murder

The destruction of any law-abiding vessel with the resulting loss of life.

Piracy

Attacking any law-abiding craft to force them to discharge cargo.

Property Destruction

Attacking a Galactic Cooperative of Worlds Station, Rock Hermitage or other anchorages.

Trafficking

Leaving a GCW station with any of the following commodities on-board: Slaves, Narcotics or Firearms.



OOLITE Reference Sheet

Game Settings

Autosave - on / off

Automatically saves your game as 'autosave' before you leave a GCW Station.

Docking Clearance Protocol - on / off

Enables docking clearance requests for GCW stations (and some OXP stations)

Music - off / on / iTunes

Turns the in-game music on and off. The iTunes option is Mac only and will play selected iTunes playlists.

Sound Volume - sliding scale

Volume slider controls both in-game music and sound effects.

Show Growl Messages Mac only

Select which level of incoming Growl notifications should be displayed (full screen only). See <http://growl.info> for more information about Growl.

Spoken Messages - off / on

Makes the computer read all messages. (if "on", Voice and Gender options are available)

Full Screen Mode width x height

Rotate through screen resolutions choices for full screen mode.

Play in Window / Full Screen PC & Linux

Toggle between playing the game in the full screen or a window (on a Mac, use command-F).

HDR Max Brightness (nits) - value

HDR Mode only. Max brightness monitor is able to produce.

HDR Paper White Brightness (nits) - sliding scale

HDR mode only. Controls how bright a paper white surface should be.

Wireframe Graphics - on / off

Play Oolite with visuals reminiscent of the original Elite. This visual style does not alter the game speed.

Graphics Detail - minimum / normal / shaders / extra

Changes the levels of in-game graphics detail. Higher settings may be unavailable on old hardware, and use more processing power

Gamma - sliding scale

Adjust gamma setting for Oolite to suit your display hardware.

Field Of View - sliding scale, in degrees

Adjust field of view of your viewscreen, value range 30-80.

Colorblind Mode - None / Protanopia / Deutanopia / Tritanopia

Available when "Graphics Detail" set to "Shaders" or "Extra detail". Adjusts the colors of the game to help colorblind players see things more clearly.

Joystick Configuration

Assign most game actions to your joystick.

Keyboard Configuration

Reassign any game actions to keys on your keyboard.

Joystick Flight Controls

Propulsion

Roll

Direction axis for roll anti/clockwise.

Pitch

Direction axis for dive/climb.

Yaw

Direction axis for turn left/right.

Increase / Decrease thrust

Buttons or direction axis to fly faster or slower.

Fuel injection

Button to activate the Witchspace Fuel Injectors.

Torus drive

Button to activate the Torus drive hyperspeed system.

Witchspace jump

Button to initiate a witchspace jump.

Galactic jump

Button to initiate a galactic jump.

Roll/pitch precision toggle

Button to toggle the degree of thrust relative to angle of the joystick.

Navigation

Next / Previous compass target

Buttons to select the next/previous space compass target.

Zoom scanner

Button to zoom out the scanner.

Unzoom scanner

Button to reset the scanner zoom factor.

Forward / aft / port / starboard view

Buttons or axes to change the view screen direction.

Cycle external views

Button to cycle the available external views.

Ident system

Button to activate the ID Recognition System.

Request docking clearance

Button to request docking clearance from a station.

Docking computer

Button to activate/deactivate the docking computer.

Fast docking

Button to activate the fast docking computer.

Toggle docking music on/off

Button to turn on/off the docking music.

Joystick Flight Controls

Offensive

Weapons toggle

Button to toggle weapons online/offline.

Fire laser

Button to fire the energy weapon.

Fire missile/bomb

Button to fire currently active pylon-mounted weapon or equipment.

Arm missile/bomb

Button to activate / target seek currently highlighted pylon-mounted weapon or equipment.

Disarm missile/bomb

Button to deactivate highlighted pylon-mounted weapon or equipment.

Target incoming missile

Button to automatically target the incoming missile nearest to the player ship.

Select next missile/bomb

Button to rotate through the available range of pylon-mounted weapons or equipments.

Next / Previous target

Buttons to cycle to next/previous target.

Defensive

ECM

Button to activate the Electronic Counter-Measure Systems.

Dump cargo

Button to dump one cargo canister

Rotate cargo

Button to rotate through the manifest

Escape pod

Button to activate the Escape Pod, if installed. Requires fast double press.

Special equipment

Select next / previous MFD

Buttons to select the next/previous MFD.

Cycle next / previous MFD

Buttons to cycle to the next/previous MFD display.

Prime next / previous equipment

Buttons to cycle through selectable equipment.

Activate equipment

Button to activate primed selectable equipment.

Set equipment mode

Button to change the mode of the primed equipment.

Heads Up Display

Joystick Flight Controls

Fast-activate first equipment item

Button to fast-activate the first equipment item.

Fast-activate second equipment item

Button to fast-activate the second equipment item.

Miscellaneous

Take Snapshot

Button to capture a screen shot

Pause

Button to pause the game.

Toggle HUD

Button to toggle the HUD on/off.

Comms log

Button to view the comms log.

Mouse Flight Controls

Fly by mouse control is only available when the game is in Full Screen mode.

Move Mouse Up and Down

Ship dives and climbs.

Move Mouse Left and Right

Roll anticlockwise and clockwise.

Left Mouse Button

Fire primary weapon.

Right Mouse Button

Zero flight roll and pitch.

Mouse Wheel Up

Increase speed

Mouse Wheel Down

Decrease speed

With Caps Lock active and Left Mouse Button down: on external views

Move Mouse Up and Down

External Camera rotates Up / Down

Move Mouse Left and Right

External Camera rotates Left / Right

With Caps Lock active on external views (PC / Linux)

Mouse Wheel Up

Zoom View In

Mouse Wheel Down

Zoom View Out



OOLITE Reference Sheet

Career Choices

Bounty Hunting

Collect bounties for pirate/fugitive craft destroyed. Bounties are also paid if you capture/rescue the escape pods of the criminals/victims.

No additional equipment required. Recommend minimum of: Beam Laser, ECM, Fuel Scoop and Shield Booster be fitted before attempting this profession.

Carrier Service

With a big enough ship you can get paid for moving someone else's bulk goods from A to B. Contracts are available through the Interfaces screen.

Requires a ship with larger cargo bays. Recommend an Advanced Navigation Array be fitted.

Mining

Blast asteroids, scoop up the fragments and sell the minerals on the commodities market.

Requires a Fuel Scoop and Mining Laser. Recommend a Cargo Bay Expansion be fitted.

Passenger or Courier Service

With a passenger berth fitted, you take a traveller from point A to point B for profit. Small packages may also be carried without requiring extra equipment. Contracts are available through the Interfaces screen.

May require a Passenger Berth. Recommend an Advanced Navigation Array be fitted.

Piracy

Attack other ships and steal their cargo, which will make you a fugitive very quickly. You will then have GalCop, bounty hunters and opportunist commanders after you. *Requires a Fuel Scoop and upgraded combat systems. Recommend fitting an Escape Pod.*

Trading

Buy low-priced commodities on one world and sell at a higher price on another.

No additional equipment required. Recommend a Cargo Bay Expansion be fitted.

Trafficking In Illegal Goods

Illegal goods can be traded for massive profit. Doing so will eventually make you a fugitive and limit the systems you can trade in.

No additional equipment required. Recommend a Cargo Bay Expansion and upgraded combat systems be fitted.

Additional careers can be added by installing mods. Refer to the Oolite Wiki for more details.

Expansion Pack Manager

The Expansion Pack Manager is accessed from the main game menu, and provides easy access to hundreds of Oolite mods that have been created by community members over a number of years. However, please note that these mods are not endorsed or vetted by the Oolite development team. They are provided "as-is", with no warranty or guarantee whatsoever. Care should be taken to read all the documentation for each mod to fully understand the changes it will make to the game and your playing experience.

Guide to colors

The color of the various expansions in the list is used to indicate the following:

Yellow	Ready to download and install
White	Installed and at the current version
Cyan	Installed; updated mod available for download.
Orange	Ready to download, but Oolite will also download extra mods to make it work.
Brown	Conflicts with an already installed mod.
Gray	Incompatible with this version of Oolite.
Red	Manually installed: cannot also be installed automatically (eg. a tweaked mod in the AddOns folder)
Blue	Installed but no longer available for download.

Special key controls

The following keys perform special functions within the Expansion Pack Manager

- F** Filter sets. Allows custom filter to be applied to list.
- I** Display information about the mod. Additionally, copies the URL to the clipboard so it can be pasted into a browser.
- X** Extracts mod content to the AddOns folder. Folder will initially have an extension of ".off". Change this to ".oxp" to enable it.

Frequently Asked Questions

Q: Where is my log file?

A: While Oolite Runs, various diagnostic information is written to a file called `Latest.log`. Where that file is located depends on your operating system:

Mac OS X: Restart Oolite, and select "Show Previous Log" from the "Oolite" menu in the menu bar. Alternatively, in the Finder, select "Go to Folder..." from the Go menu, and enter `~/Library/Logs/Oolite/`, and find `Latest.log`.

Windows: In Oolite's folder (typically in `C:\Oolite`), there is a folder called `oolite.app`, which contains a folder called `Logs`. A shortcut to this folder is created at Oolite's Start Menu entries during installation.

Linux and other Unix-like systems:

`~/.Oolite/Logs` (that is, in the hidden folder `.Oolite` in your home folder). If you're using Nautilus or Konqueror—if you've never heard of them, you probably are—select Show Hidden Files from the View menu.

Q: Why do none of the mods I have installed appear to work in the game?

A: Check you do not have Oolite in "Strict Play" mode. Also, make sure any mods you have added manually to the AddOns folder have an extension of `".oxp"`.

Q: I made a tweak to one of the expansions I added, but the tweak hasn't been applied in game?

A: After making a change to an expansion pack, make sure to hold down the right shift key when starting the game, and hold it until you see the spinning Cobra. This will force Oolite to rebuild its game cache, thus applying your change to the game files.

Q: I am getting destroyed by pirates everywhere I go!

A: Make sure to avoid dangerous systems if you aren't prepared for them. Pirates will generally demand some cargo from you, so always keep some cheap cargo on hand which you can eject when asked. Watch out for parcel or passenger contracts that have a higher than normal payout as they might attract unwanted attention. They might also require you to travel through dangerous systems. For more detailed information on combat tactics and dealing with pirates, visit this page on the wiki: https://wiki.alioth.net/index.php/Oolite_Tactics

Heads Up Display

Frequently Asked Questions

Q: I keep crashing when trying to dock!

A: Make sure to use the navigation beacon in front of the docking port to help with lining up your ship. Keep the docking port centred in your front view, and the navigation beacon centred in your rear view. Match the rotation of the station and accelerate slowly towards the dock. When you enter the dock, keep moving forwards towards the back wall of the dock until the docking animation appears. For more detailed discussions on docking methods, please visit the wiki, and in particular, this page: https://wiki.alioth.net/index.php/How_to_Dock

Q: It takes a *long* time to travel to the station after arriving in a new system!

A: Yes it does. However, if there are no powered ships in scanner range, you can make use of the torus drive, which can be activated by pressing the "J" key. The system will speed up the flight time considerably, but will auto-disengage whenever another ship comes inside scanner range. Which will occur frequently because most ships are travelling along the direct route from the witchpoint beacon to the planet and main station. But that doesn't mean you have to. Flying at right angles a short distance away from the main route will put you out of the way of most ships and allow your torus drive to operate for longer periods without interruption.



OOLITE Reference Sheet

MFDs

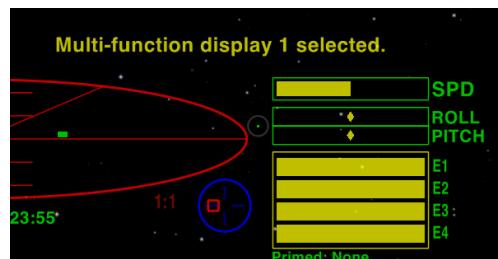
MFDs, or Multi-function displays, are a part of the HUD that can show additional information to the player. Mods are the primary way MFDs are used, and each mod will use them in different ways - you will need to check the documentation for each mod to learn about what information will be displayed.

Each HUD can define multiple MFD positions or slots, and the content of each MFD can be cycled through the available options. For the default HUD, there are 2 MFD slots defined: slot 1 being located in the top left of the screen, and slot 2 in the top right of the screen.



Each MFD slot can be made active in turn, but only one MFD slot can be active at any one time.

To activate an MFD slot, use the ":" key. Press the key multiple times to move through all the MFD positions. As each position is activated, a console message will appear on your HUD indicating which MFD slot has just become active.



To move in reverse order through the MFD slots, use the Ctrl + ":" key combination.

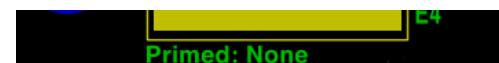
To cycle through the available content for an MFD slot, use the ";" key. The initial display of any MFD slot is blank. As you cycle through the available content options, eventually you will return to the blank item. The available content will be defined by what mods are installed and what equipment items have been purchased by the player.

To cycle in reverse order through the available content for an MFD slot, use the Ctrl + ";" key combination.

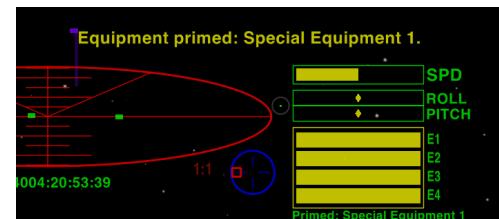
Primable equipment

Some mods will give the player custom equipment that can be activated and used in flight. If the activation of the equipment is not automatic (that is, based on some condition or situation) then it is likely a piece of primable equipment has been installed on the player's ship so it can be manually activated.

On the default HUD, the currently primed equipment is displayed on the bottom right of the screen, below the energy banks. If there are no primable equipment items installed, nothing will be displayed in this position. If there are some available, the text "Primed: None" will initially be shown.



To "prime" a piece of equipment, use the Shift + "N" key combination. If there are several pieces of equipment installed, you may have to press the combination multiple times until the desired equipment is primed. As each piece of equipment is primed, a console message will appear on your HUD indicating what equipment has been primed, and the currently primed equipment will be displayed at the bottom of the screen.



To move in reverse order through the primable equipment, use the Ctrl + Shift + "N" key combination.

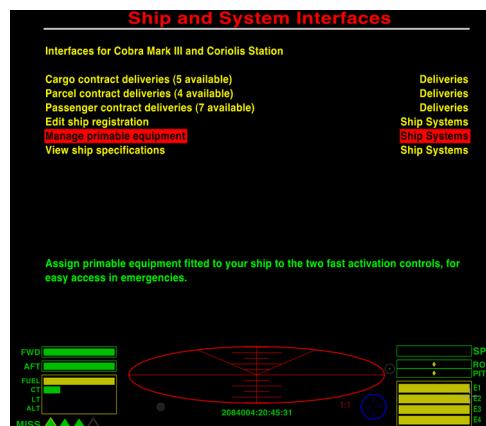
Once primed, there are two functions keys available to a piece of equipment. The "mode" function is called by pressing the "b" key, and the "activate" function is called by pressing the "n" key. As these functions can be used in a variety of different ways, it is important to read the documentation for each equipment item to learn how the functions are utilised.

MFDs and Primable Equipment

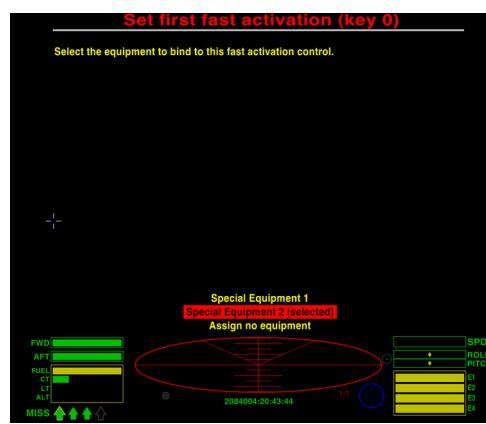
Fast activation

Along with the standard priming and activation methods described above, 2 keys have been allocated to directly execute the activation function of a particular piece of primable equipment. The first is the "0" key, the second is the "Tab" key. In essence, once configured, these keys allow the player to bypass the need to prime an equipment item individually in order to activate it.

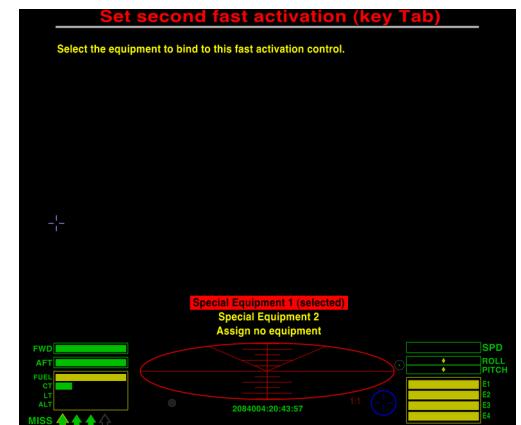
To set up what equipment is assigned to each key, you will need to be docked at a station and then go to the F4 "Available Interfaces" screen, and select the "Manage primable equipment" option.



When selected, you will be asked what equipment should be allocated to the "0" key.



This will be followed by what equipment should be allocated to the "Tab" key.



After both equipment items have been selected, the new arrangement will be displayed as confirmation.



Custom keys for mod equipment

To avoid the need to prime individual equipment items to make use of its functions, after you have purchased a new piece of primable equipment, you can go to the Keyboard configuration screen in the Game options menu, and allocate individual keys to the "mode" and "activate" functions of the equipment.



OOLITE Reference Sheet

Adder



30w x 8h x 45l m

Speed/Thrust (Im)	0.24/0.030	Banks & Charge	C20
Roll & Pitch	NJ	Weapon Mounts	F M1
Cargo Space (t)	2	Hyperspace	yes
Sold at Tech Level	5	Base Price (cr)	65000
Base Equipment	Pulse Laser, 1 Missile, HS		

An agile compact ship favoured by couriers, customisers and professional racers.

Anaconda



75w x 60h x 170l m

Speed/Thrust (Im)	0.14/0.014	Banks & Charge	P30
Roll & Pitch	DB	Weapon Mounts	All M7
Cargo Space (t)	750	Hyperspace	yes
Sold at Tech Level	9	Base Price (cr)	650000
Base Equipment	Pulse Laser, 3 Missiles		

The biggest mass produced freighter available, built like an asteroid and steers like one.

Asp Mk II



65w x 20h x 70l m

Speed/Thrust (Im)	0.40/0.050	Banks & Charge	P30
Roll & Pitch	JE	Weapon Mounts	FA M1
Cargo Space (t)	N/A	Hyperspace	yes
Sold at Tech Level	11	Base Price (cr)	375000
Base Equipment	Pulse Laser, 1 Missile		

The civilian version of the Galactic Navy's premier long range scouting / commando craft.

Boa



65w x 60h x 115l m

Speed/Thrust (Im)	0.24/0.036	Banks & Charge	P30
Roll & Pitch	NE	Weapon Mounts	All M4
Cargo Space (t)	125	Hyperspace	yes
Sold at Tech Level	7	Base Price (cr)	450000
Base Equipment	Pulse Laser, 3 Missiles		

The replacement for the ageing Python, with better performance and capacity.

Boa Cruiser / Mk II

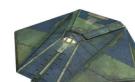


65w x 60h x 115l m

Speed/Thrust (Im)	0.31/0.040	Banks & Charge	P32
Roll & Pitch	LE	Weapon Mounts	All M5
Cargo Space (t)	175	Hyperspace	yes
Sold at Tech Level	8	Base Price (cr)	495000
Base Equipment	Beam Laser, 5 Missiles		

The long haul version of the Boa, trading some agility for more capacity and speed.

Cobra Mk I



70w x 15h x 55l m

Speed/Thrust (Im)	0.26/0.025	Banks & Charge	E25
Roll & Pitch	JF	Weapon Mounts	FA M1
Cargo Space (t)	10	Hyperspace	yes
Sold at Tech Level	5	Base Price (cr)	100000
Base Equipment	Pulse Laser, 1 Missile		

The first truly effective solo fighter/trader ship, but now superseded by the Mk III.

Cobra Mk III



130w x 30h x 65l m

Speed/Thrust (Im)	0.35/0.032	Banks & Charge	H40
Roll & Pitch	JE	Weapon Mounts	All M4
Cargo Space (t)	20 (+15)	Hyperspace	yes
Sold at Tech Level	7	Base Price (cr)	150000
Base Equipment	Pulse Laser, 3 Missiles		

The most successful medium size ship ever built and an excellent fighter/trader.

Constrictor †



54w x 10h x 60l m

Speed/Thrust (Im)	Unknown	Banks & Charge	?
Roll & Pitch	Unknown	Weapon Mounts	?
Cargo Space (t)	Unknown	Hyperspace	yes
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Unknown		

Currently under test by the Galactic Navy, the rumours say it's extremely deadly.

Escape Pod

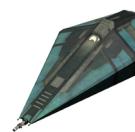


7w x 6h x 6l m

Speed/Thrust (Im)	0.05/0.005	Banks & Charge	P30
Roll & Pitch	AA	Weapon Mounts	N/A
Cargo Space (t)	N/A	Hyperspace	no
Sold at Tech Level	7	Base Price (cr)	1000
Base Equipment	N/A		

Only technically a ship, the Escape Pod is the primary lifeboat system of GCW ships.

Fer-de-Lance



45w x 20h x 85l m

Speed/Thrust (Im)	0.30/0.036	Banks & Charge	H45
Roll & Pitch	RE	Weapon Mounts	All M2
Cargo Space (t)	12	Hyperspace	yes
Sold at Tech Level	9	Base Price (cr)	485000
Base Equipment	Beam Laser, 2 Missiles, 2 Passenger Berths, MTS, STE, ECM, ASC, FI, FS, DC, SB, EP		

An agile and deadly assault class ship favoured by bounty hunters and the well-to-do.

Observer's Guide

Gecko †



65w x 12h x 40l m

Speed/Thrust (Im)	0.30/0.045	Banks & Charge	H40
Roll & Pitch	OG	Weapon Mounts	F M1
Cargo Space (t)	3	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Beam Laser, 1 Missile		

Produced in unlicensed shipyards, this fighter is a favourite of pirates and assassins.

Krait †



90w x 20h x 80l m

Speed/Thrust (Im)	0.30/0.035	Banks & Charge	H25
Roll & Pitch	MG	Weapon Mounts	F M0
Cargo Space (t)	2	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Beam Laser		

A discontinued fighter design finding a new life in the professional racing circuit.

Mamba †



65w x 12h x 55l m

Speed/Thrust (Im)	0.32/0.032	Banks & Charge	H30
Roll & Pitch	JG	Weapon Mounts	F M0
Cargo Space (t)	4	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Beam Laser		

Originally used in professional racing, this fighter is used by pirates and escorts alike.

Moray Star Boat



60w x 25h x 65l m

Speed/Thrust (Im)	0.30/0.032	Banks & Charge	H30
Roll & Pitch	JG	Weapon Mounts	All M2
Cargo Space (t)	7	Hyperspace	yes
Sold at Tech Level	6	Base Price (cr)	125000
Base Equipment	Pulse Laser, 2 Missiles, HS		

A multi-role ship, often seen as a medical or tourist craft. It's popular with pirates too.

Moray Medical Boat



60w x 25h x 65l m

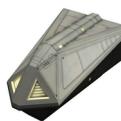
Speed/Thrust (Im)	0.30/0.032	Banks & Charge	H30
Roll & Pitch	JG	Weapon Mounts	F M2
Cargo Space (t)	7 (+15)	Hyperspace	yes
Sold at Tech Level	6	Base Price (cr)	145000
Base Equipment	HS		

Largely used for medical applications, standard model comes with no offensive capabilities.



OOLITE Reference Sheet

Orbital Shuttle †



20w x 20h x 35l m

Speed/Thrust (Im)	0.08/0.016	Banks & Charge	D10
Roll & Pitch	JD	Weapon Mounts	N/A
Cargo Space (t)	30	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	None		

Often unmanned, this ship is the GCW's primary in-system heavy cargo hauler.

Python

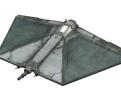


80w x 40h x 130l m

Speed/Thrust (Im)	0.20/0.020	Banks & Charge	N25
Roll & Pitch	JD	Weapon Mounts	All M2
Cargo Space (t)	100 (+15)	Hyperspace	yes
Sold at Tech Level	5	Base Price (cr)	200000
Base Equipment	Pulse Laser, 1 Missile		

An ageing design that's still popular with commanders needing a simple robust freighter.

Sidewinder Scout Ship †



65w x 15h x 35l m

Speed/Thrust (Im)	0.37/0.037	Banks & Charge	H25
Roll & Pitch	NH	Weapon Mounts	F M0
Cargo Space (t)	N/A	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Pulse Laser		

A tough compact fighter popular with racers, freighter escorts and pirates alike.

Thargoid Warship †



180w x 40h x 180l m

Speed/Thrust (Im)	0.50/0.050	Banks & Charge	S40
Roll & Pitch	JE	Weapon Mounts	All M5
Cargo Space (t)	N/A	Hyperspace	yes
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Thargoid Laser, ECM, 5 Robotic fighters		

The primary vessel of the Thargoid Invasion Fleet. Deadly and fights without fear.

Thargoid Robotic Fighter †



38w x 9h x 36l m

Speed/Thrust (Im)	0.45/0.040	Banks & Charge	E30
Roll & Pitch	JE	Weapon Mounts	F M0
Cargo Space (t)	N/A	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Pulse Laser		

Small remote-controlled fighters designed to swarm their victims.

Observer's Guide

Notes

† Ships which are unavailable for purchase at the GCW station shipyards for the following reasons:

- GCW shipyards specialise in currently manufactured models fitted with hyperspace drives.
- GCW shipyards will not deal in craft from unlicensed manufacturers.
- It is illegal for civilians to own Local Government, Galactic Navy and GalCop ships. It is also illegal for civilians to be in possession of craft constructed outside of the Galactic Cooperative of Worlds.
- Speed is measured against *Light Mach*, which is the maximum velocity a ship can reach before suffering relativistic effects.
- The ships' banks and charge rate are graded on the *KeZecky* scale. The higher letter (A being the lowest) and number value, the larger and faster charging the energy bank is.
- A vessel's agility is measured using the *Holdstock* method. The higher value of each letter (A being the lowest) the better the performance.
- Ships have laser mounts in the Forward, Aft, or All view screen directions. The number of pylons is shown by the *M* value.
- Cargo space is measured in GCW standardised 1 TC cargo canisters.
- The base price is calculated for craft with the base equipment fitted. Ships available for sale may be fitted with extra equipment, with a corresponding increase in price.
- Images shown here are not to scale and measurements are listed in metres.

Other Objects



Cargo Canister



Missile



Quirium Cascade Mine



Beacon



Asteroid



Boulder



Splinter



Metal Fragment



Witchcloud

Transporter †



30w x 10h x 35l m

Speed/Thrust (Im)	0.10/0.020	Banks & Charge	E30
Roll & Pitch	JE	Weapon Mounts	All M0
Cargo Space (t)	12	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	None		

Predating the GCW, this ship serves as shuttle, cargo hauler and industrial platform.

Viper †



50w x 16h x 55l m

Speed/Thrust (Im)	0.32/0.032	Banks & Charge	F40
Roll & Pitch	NI	Weapon Mounts	F M1
Cargo Space (t)	N/A	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Beam Laser, ECM, 1 Missile, EP		

GalCop's mainstay patrol vessel, capable of dealing with the most deadly threat.

Viper Interceptor †



50w x 16h x 55l m

Speed/Thrust (Im)	0.52/0.050	Banks & Charge	I60
Roll & Pitch	UJ	Weapon Mounts	F M3
Cargo Space (t)	N/A	Hyperspace	yes
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	Military Laser, ECM, 3 Missiles, EP		

GalCop's best pilots fly these ships to fight threats of an interstellar scale.

Worm †



35w x 12h x 35l m

Speed/Thrust (Im)	0.11/0.012	Banks & Charge	C20
Roll & Pitch	JE	Weapon Mounts	F M0
Cargo Space (t)	2	Hyperspace	no
Sold at Tech Level	N/A	Base Price (cr)	N/A
Base Equipment	None		

A simple support craft, often seen as a ship's launch, lifeboat or miner.

Stations and Other Anchorages



Coriolis Station



Dodecahedron Station



Icosahedron Station



Rock Hermit

Oolite Reference Sheet by KZ9999, updated and expanded by phkb.
Inspired by the OoliteRS by Darkbee / another_commander / Commander McLane
Checking by Disembodied, _ds_, Kaks, Commander McLane, Ahuman, Micha, another_commander,
Cholmondeley and others.
Released under the Creative Commons - BY - NC - SA 3.0
This document was created using OpenOffice 3.0, Inkscape, Paint.net and InrfanView.
Typefaces are the *Deja Vu* family.



OOLITE Reference Sheet

Commander's Log

Solar System - Galaxy		Commander Status		Manifest			
GCW MT		Ship		Commodity	Quantity	Buy Price	Sell Price
Present System	Destination System	Credits	Cargo Capacity				
Government	Government	Legal Status:	Combat Rating:				
Economy	Economy	Outstanding Contracts					
Tech Level	Tech Level						
Notes							
Solar System - Galaxy		Commander Status		Manifest			
GCW MT		Ship		Commodity	Quantity	Buy Price	Sell Price
Present System	Destination System	Credits	Cargo Capacity				
Government	Government	Legal Status	Combat Rating				
Economy	Economy	Outstanding Contracts					
Tech Level	Tech Level						
Notes							