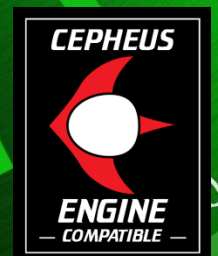


# HOSTILE TOOLKITS

**A Compilation of Equipment from the HOSTILE Setting**

**ZOZER**



**HOSTILE TOOLKITS** is a gritty science-fiction roleplaying add-on for the Cepheus Engine – and for Zozer Games' Hostile setting.

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**Thanks:** Mike Fulghum for the book's concept and to John W. Hundley for additional equipment suggestions.

123456789

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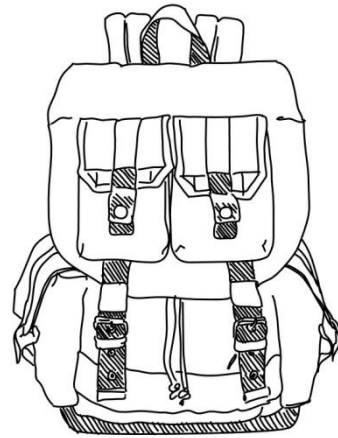
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# INTRODUCTION

Welcome to the universe of **HOSTILE**, a gritty science fiction setting for Cepheus Engine or other 2D6-based classic SF RPGs. It echoes the modern day, and takes its cues from movies like *Aliens*, *Alien*, *Total Recall*, *Outland*, *Bladerunner* and *Silent Running*. It is a setting of realism, hard work and danger. And the technology of the setting reflects the equipment and technology used in those late-70s and 80s films – ‘retro-tech’, without wi-fi, touchscreens, cell-phones or holograms.

This book is a compilation. The equipment listed in this book has been taken from all of the **HOSTILE** books published by Zozer Games so far, in particular: the **HOSTILE** rulebook, *Marine Corps Handbook 2215*, *Dirtside* and *Zaibatsu*. In addition there are various additional pieces of equipment, especially within the Mining Gear and Starship Locker lists. Note that there is the occasional duplication within the book, since the individual equipment sections are organized almost like tool-kits or ‘kit lists’ suitable for a certain career, situation or scenario. You will find the magnetic compass and metal detector in both the Mining Gear and the Expedition Gear sections, for example.



## INDIVIDUAL ENTRIES

Product brand-names are included as a tie-in to the setting, a technique the author first noticed in William Gibson’s *Neuromancer* back in the cyberpunk-charged 80s. Unless specified otherwise, all prices are in American dollars and all weights are in kilogrammes (kg).

Any item that would make a decent impromptu weapon is listed with a few basic combat statistics for use in Cepheus Engine combat situations. These include:

- **Range :** close quarters, extended reach or a firearms range.
- **DM:** Typically a negative modifier – the item wasn’t designed as a weapon.
- **Damage:** In numbers of D6 to be rolled.
- **Shots:** If some kind of missile weapon, how many shots does it have available?

Google **Zozer Games**, or go to: <https://www.paulelliottbooks.com/hostile>

# CAMPING GEAR

Item	Brand Leader	Cost (\$)	Wgt
<b>Advanced Modular Base</b>	Leyland-Okuda Advanced Modular Base 230	50,000	6,000
<b>Bungee Cord</b>	Ryco Cord	10	-
<b>Canteen</b>	Universal Steel Canteen	20	-
<b>Cooking Kit</b>	ARMI Cooking Kit	150	3
<b>Cooking Stove</b>	ARMI Cooking Stove, Flameless	40	1
<b>Firestarter</b>	Yoshiko FireStarter	12	-
<b>First Aid Kit</b>	Haruna Priority First Aid Kit	50	0.5
<b>Flares</b>	Garuda 450 FlarePack	20	-
<b>Flashlight</b>	Norden LSG5 Flashlight	120	1
<b>Glowsticks</b>	Garuda ChemBright GlowSticks	25	0.5
<b>Head-torch</b>	Norden LSAA Head-torch	70	0.2
<b>Hydro-Pack</b>	DeWitt Hydro-Pack	70	4
<b>Jerry Can</b>	Universal 20L Jerry Can	20	0.1
<b>Lantern</b>	MagLite ML5 Lantern	30	1.5
<b>Life Support Supplies</b>	Kinako TigerPak	10	0.2
<b>Mess Tin</b>	ARMI Mess Tin	45	0.2
<b>Pressure Box</b>	Safestar Type 1 Bio-Box	450	2
<b>Pressure Tent</b>	Bintang SHERPA Pressure Tent	2,000	25
<b>Ration Pack/Daily</b>	Kinako Sunrise Ration Pack	30	2
<b>Rucksack</b>	Aldine Colonial 1200 Rucksack	80	-
<b>Sleeping Bag</b>	Yoshiko 567-8801 Sleeping Bag	35	1.5
<b>Standard Modular Base</b>	Leyland-Okuda Standard Modular Base 130	10,000	4,000
<b>Survival Bag</b>	Kinako Survival Bag N401	5	-
<b>Table &amp; Chairs</b>	Aldine Camp-Tech Folding Table and Chair Set	100	18
<b>Tarpaulin</b>	Yoshiko Fast-Tarp	10	2
<b>Tent</b>	Kinako Wildlands Tent	200	3
<b>Water Filter</b>	DeWitt 56 Filtration Kit	50	0.1
<b>Wire Saw</b>	Aldine Wire Saw	10	-

**Aldine Wire Saw:** A survival saw made up of heavy cutting wire, with loop handles on either end. Will cut through branches with time and effort. Cost: \$10. Weight: negligible. Combat: Can be used as an effective garrote. If surprise is achieved using stealth, the attacker has DM 0, Close Quarters Range, damage is equal to attacker's Str. Refer to both the Grappling and the Suffocation rules in CE

**Aldine Camp-Tech Folding Table and Chair Set:** A folding camp table and six chairs. Use the table for dining, or as an equipment desk. Cost \$100. Weight 18kg.

**Aldine Colonial 1200 Rucksack:** A waterproof 40 liter rucksack, with side and front pockets and equipment straps below and above. It includes attachments for a Hydro-Pack. Holds roughly 25kg of kit. Cost: \$80. Weight negligible.

**ARMI Cooking Kit:** This cooking kit includes mess tins, cups and cutlery for six people. Cost \$150. Weight 3 kg.

**ARMI Cooking Stove, Flameless:** A plastic tub with a metal liner, into which precooked food (ideally a meal from a ration pack) is placed. A heat block is put underneath the metal tray and water poured on, which activates it. The lid is sealed and the block heats up to warm the food. There is no flame and the heat does not penetrate the plastic box. Ration packs always include a couple of heat blocks with which to heat the food. Cost \$40. Weight 1kg.

**ARMI Mess Tin:** Folding mess tin, cup, cutlery. Cost \$45. Weight 0.2 kg.

**Bintang SHERPA Pressure Tent:** Basic pressurized shelter for two persons, providing standard atmosphere and conditions, along with protection from precipitation, storms, and up to strong winds. There is no airlock: the tent must be depressurized to enter or leave it. Cost \$2,000. Weight 25 kg.

**DeWitt Hydro-Pack:** An artificial bladder, manufactured by DeWitt, containing up to 4 liters of drinking water, accessed via a drinking tube. Hydro-Packs have shoulder straps. Hikers must drink 1 liter of water/day, high-energy activities double this requirement. Use purifier capsules if drinking from local water sources! Cost \$70, Weight: 4kg (1 liter = 1 kg.).

**Garuda 450 FlarePack:** Four flares of various colors used for signaling or illumination. Cost: \$20. Weight: negligible.

**Garuda ChemBright GlowSticks:** A pack of 20 glowsticks filled with a green chemiluminescent substance, each providing up to 12 hours of 360 degree illumination when 'snapped' and shaken. Cost \$25. Weight: 0.5kg.

**Haruna Priority First Aid Kit:** A small medical kit carried on a pouch that fits onto a rucksack or belt. It contains basic items, bandages, a pressure dressing, antibiotics, painkillers, eye-wash, antihistamines and plasters. It contains enough supplies for two wound treatments. Cost \$50. Weight 0.5kg

**Kinako Sunrise Ration Pack:** A 24-hour ration pack provides a range of meals and snacks for one person for a single day, and includes 1 liter of additional water for cooking and making hot drinks. Cost \$30. Weight 2kg.

**Kinako Survival Bag N401:** Lightweight, tough polyethylene survival bag is essential equipment for every hiker. Use for shelter in an emergency, or for keeping you dry during a heavy rainstorm. Can also be used as a waterproof stash for your kit, for storing muddy clothes and boots in a cramped tent or as a body bag.

**Kinako TigerPak:** Basic life support supplies (waste reclamation chemicals, oxygen supply, CO2 scrubbers, etc.) for one person for one month in an enclosed, pressurized environment, such as a pressure tent or an advanced base. Cost \$10. Weight 0.1 kg.

**Kinako Wildlands Tent:** Basic shelter for two persons offering protection from precipitation, storms, and temperatures down to 0° Celsius, and withstanding light to moderate winds. Larger, more elaborate tents capable of sheltering more people, higher winds or colder temperatures weigh and cost more. Cost \$200. Weight 3 kg.

**Leyland-Okuda Standard Modular Base 130:** Modular unpressurized quarters for 6 persons and capable of withstanding light to severe winds. Offers excellent shelter from precipitation, storms, and temperatures down to -10° Celsius. Requires 8 man-hours to erect or dismantle. Dismantled and ready for shipment, the cabin weighs 4 tons. Cost \$10,000. Weight 4,000 kg.

**Leyland-Okuda Advanced Modular Base 230:** Pressurized quarters with airlock for 6 persons and capable of withstanding anything less than hurricane force winds. Offers excellent shelter from precipitation and all but the most extreme of temperature ranges. Requires 12 man-hours to erect or dismantle. Dismantled and ready for shipment, the advanced base weighs 6 tons. The cost includes life-support for six people for 7 days. Cost \$50,000. Weight 6,000 kg.

**Norden LSGS Flashlight:** A waterproof and impact resistant flashlight, roughly 20 cm in length, with an endurance of 6 hours. A flashlight produces a wide cone of light up to 18 meters long with a radius of 6 meters at the end of the beam. Cost \$120. Weight 1kg.

**Norden LSAA Head-torch:** A powerful little head-torch, its use allows for illumination with hands-free. Cost \$70. Weight 200g.

**MagLite ML5 Lantern:** Folding lantern for illumination of a camp site. It comes with a 7 hour power cell and has a wire handle for carrying or hanging from a branch or tent pole. Cost \$30. Weight 1.5kg.

**Ryco Cord:** 6m of nylon cord, used for setting up tarp shelters, and a million other uses. Non-fray. Cost: \$10. Weight: negligible.

**Safestar Type 1 Bio-Box:** Some things need protecting from vacuum or hostile atmosphere, biological samples, delicate materials and even small animals (perhaps even pet cats and dogs). The Bio-Box is similar in size to a pet carrier, but is pressurized and comes with its own 6 hour air-supply. Cost \$450. Weight 2 kg.

**Universal 20L Jerry Can:** A strong steel jerry can for holding 20L of water, fuel or other liquid. Mark the can's exterior after your choice is made. With locking cap and a strong set of handles, that allow easy carriage or stacking. Cost: \$20. Weight 0.1kg (empty), 20kg (full).

**Universal Steel Canteen:** Made of stainless steel, the 1 liter canteen cup includes butterfly-shaped handle with canteen cup lid. It can be used to boil water. \$20. Weight negligible.

**DeWitt 56 Filtration Kit:** High-performance cylindrical filter which attaches to a drinking pouch, a canteen bottle or a hydration pack. Removes 99.99% of bacteria. Kit also comes with 100 back-up purification tablets and three 5L water bags. Cost \$50. Weight 0.1kg.

**Yoshiko Fast-Tarp:** Hard-wearing waterproof sheet for outdoor use as a temporary shelter or protective covering against moisture. Includes cord and aluminum pegs. Measures 4 meters long by 2 meters wide. Cost \$10. Weight 2 kg.

**Yoshiko FireStarter:** A waterproof pouch containing 200 matches, electric lighter, a ferro-rod and tinder. Cost: \$12 Weight: negligible.

**Yoshiko 567-8801 Sleeping Bag:** A warm and compact sleeping bag. Cost \$35, Weight 1.5kg.



# COMMUNICATIONS

Item	Brand Leader	Cost	Wgt	Range
<b>Uplink Radio</b>	Zenith ZLR Uplink Transmitter	4000	10 kg	Orbit
<b>Long Range Radio</b>	CRM 150 Base Station Transmitter	2000	8 kg	500 km
<b>Medium Range Radio</b>	Aztec AA-2 Field Radio	1000	3 kg	50 km
<b>Short Range Radio</b>	Gulfstar 20 Hand Radio	250	500g	10 km
<b>Headset</b>	Gulfstar HeadSet	100	100g	-
<b>Video-Phone</b>	Comlink America VID Video-Fone	600	2 kg	-
<b>Jammer</b>	Novomo PLT-6320	1000	1 kg	100m
<b>Advanced Jammer</b>	Novomo PLT-7000	20,000	3 kg	3 km

**Aztec AA-2 Field Radio:** Belt-carried or pack-mounted radio set capable of up to 50 km range, and contact with official radio channels. It has five separate channels.

**Comlink America VID Video-Fone:** A desktop videophone with keypad, card-reader and color screen. Identical units can be found in cars and taxis.

**CRM 150 Base Station Transmitter:** A long-distance radio suited more for vehicle or ground station use. It is capable of up to 200 km range and has five separate channels.

**Gulfstar 20 Hand Radio:** Hand-held radio capable of 10 km range (much shorter underground or underwater).

**Gulfstar Headset:** A headset with boom mike and coil cable that jacks into any of the radios to allow hands free, voice-activated, communication.

**Novomo PLT-6320:** The PLT-6320 is a hand-held radio jamming unit with a 100m range and will disrupt most radio signals within that range. It will also interfere with security motion sensors, jamming their frequencies. Weight 1kg. The Advanced Jammer (the Novomo PLT-7000) is available, with a 3km range. It is however, backpack sized.

**Zenith ZLR Uplink Transmitter:** Pack-mounted, tight-beam transmitter capable of contact with ships in orbit. The transmitter must be emplaced on its tripod before it can be utilized and details of the ship's orbit must be available to the landing party. The ship must be above the horizon for the link to be established, on most worlds this will be roughly one-third of the time. High orbits allow longer transmission times, but consequently longer periods of time when the ship is on the other side of the planet, below the horizon.



# COMPUTERS

Most computers in 2225 act very much like they did back in 2020 AD, there are terminals with monitors and keyboards which are part of a building or company's local network, stand-alone desktop computers used in homes and small businesses, and finally there are the portable terminals (or laptops). All can connect with other computers around the world using the wired telephone network. Portable terminals include their own modem, but must be jacked into a phone socket to access the Network. ***There is no wireless connectivity*** – this is old school computing! Neither are there any palm computers or smart phones, and touch screen technology does not exist.

A data network exists that not only covers the entire Earth, but stations throughout the Solar System and all of the Off-World Colonies and outposts as far as the Outer Rim (with an inherent time lag). It exists where communication exists, data piggy-backing on com-lines to allow computers to transfer data and to communicate with one another. Today we call this the Internet, in **HOSTILE** it is known as the Integrated Data Network (IDN, or simply, 'Network'). The power of a computer is given by its rating (Model 1, Model 2 and so forth), which measures the complexity of the programs it can run (effectively unlimited). Programs are rated by the computer rating they require. A system can run a number of programs simultaneously up to its rating. A Model/3 has slots for 3 programs, for example.

Model	Brand Leader	Weight	Cost
<b>DESKTOP WORKSTATIONS</b>			
<b>Model/0</b>	Aztec 001 Terminal	10	250
<b>Model/1</b>	CRM Basic	10	250
<b>Model/2</b>	IBN Professional Series 9	10	500
<b>Model/3</b>	Hosaka Farstar 200	10	1000
<b>Model/4</b>	IBN Professional Series 12	10	1500
<b>PORTABLE TERMINALS (CYBERDECKS)</b>			
<b>Model/1</b>	CMD ZX-22	5	300
<b>Model/2</b>	IBN Net space 2	5	700
<b>Model/3</b>	Hosaka Goldstar	5	2000
<b>Model/4</b>	Aztec-Sendai Cyberspace 64	5	5000
<b>Model/5</b>	Shinobi Farscape 5	5	8000
<b>Model/6</b>	Aztec-Sendai Cyberspace-6	5	10,000
<b>OTHER ITEMS</b>			
<b>Data Card</b>		-	5
<b>Optical Disc</b>		-	15
<b>Optical Disc Player</b>		2	250
<b>E-Board</b>		2	250

**Data Cards:** The main method of mobile information storage and resemble modern-day smart cards. The inside of a data card contains an embedded microprocessor. Data cards include RAM as well as a 16-bit microprocessor; they use a serial interface and receive their power from the card reader. Weight negligible, cost \$5. ROM Cards, however, are used to hold software, and are slotted into ROM ports on a computer. *Software is not installed onboard a portable terminal or workstation.* ROM cards, like 1980's game cartridges are slotted into the unit to interface with the onboard processor. A computer can hold and run a number of ROM Cards equal to its rating. A single ROM Card holds one program, and the cost is given overleaf.

**Mainframes:** Corporations use mainframes, as do starships. These powerful computers are supported by a wired network that can be accessed via one or more workstations. Each workstation resembles a modern personal computer (PC), with keyboard and monitor. Mainframes weigh around 100 kg and are usually fitted into a small purpose-built computer room with one or more workstations (see below).

**Optical Discs:** Used as a more powerful file storage platform and are also the central format for playing media (video and audio). The standard Baumann GmbH MiniDisk series holds up to 15.9 gigabytes of data and each glass disc is permanently mounted within a small, rectangular plastic case. The disc itself can withstand extreme temperatures and pressures and is predicted to hold its data internally for millennia. Their weight is negligible and their cost is \$15 each.

**Optical Disc Player:** A portable unit with flip-up color screen which can play MiniDisks. It incorporates built-in speakers and a storage area within the case for up to twenty Baumann MiniDisks. Although most Portable Terminals have MiniDisk readers, they are only able to read *data* from the discs and do not have the capability to play video or audio. For that the character will require a dedicated Disc Player with its color screen capabilities. Weight is 2 kg and cost is \$250.

**Portable terminals:** Stand-alone computers resemble modern laptops with hinged cases and often run dedicated software; however they must be connected to the hardware they control via a cable. Controls for complex field equipment require these dedicated laptops, often supplied in tough, anti-shock cases with integral carry handles. Portable terminals are also known as cyberdecks, because of their common use to access cyberspace. Portable terminals weigh 5 kg and are rated from Model/1 to Model/6.

**Workstations:** Used in factories, on colonies, starships and space-stations to access a mainframe with a rating of Model/0 (it does not run its own programs). Workstations, however, can also be stand-alone computers, much like modern-day PCs. They have integral processors and hard drives with their own dedicated software. Workstations in some installations or businesses will often be connected to one another via a wired network and can be rated as a Model/1 to a Model/4. A workstation weighs around 10kg (without chair and console unit) and costs \$250.

**E-Board** Clipboard-sized, hand-held Model/0 terminal running administration and record-keeping software. It has a monochromatic screen with an in-built stylus. The memex is rugged, and it features a data card slot and a spring-loaded jack cable for plugging into any videophone unit that enables it to access the Network. This electronic clipboard ('e-board') weighs 2 kg and costs \$250.

# COMPUTER SOFTWARE

A computer can use any high-rating software at a lower rating, to a minimum of the lowest rating shown. Software cannot be removed from or upgraded on the ROM Card that it is delivered on.

Software	Rating	Cost	Description
<b>DNA Database</b>	1	1000	Full DNA listing of a colony/nation's population.
<b>Criminal Record Database</b>	1	2000	Complete and detailed listing of a colony/nation's criminal records.
<b>Census Database</b>	1	500	All colony/national census details from 1945 to 2225.
<b>Vehicle Registration Database</b>	1	2000	Current database of a colony/nation's vehicle owners, registrations and vehicle types.
<b>Graphic Design</b>	2	1000	A 3D graphic design package used to layout and virtually test electrical or mechanical devices, machines, vehicles or buildings.
<b>Image Editor</b>	1	600	Used to modify, retouch or simply create images digitally. Able to scan into the computer, analyze and modify.
<b>Predictive Modelling</b>	3	3000	This software is able to create complex and immersive data models that will be displayed on a single color monitor. Such models might include the activities of a volcano, the spread of a disease, the learning abilities of a rogue AI or the effects of virus etc.
<b>Audio/Visual Analysis</b>	1	900	Sound or video data input from a data card or optical disc can be studied, investigated, scrutinized and isolated in order to find clues or look for evidence.
<b>Translator 1</b>	1	100	Translators are specialized Expert systems that only have language skills. Near-real-time translation.
<b>Translator 2</b>	2	1000	Works in real-time and has a much better understanding of the nuances of language.

<b>Icebreaker 1</b>	<b>1*</b>	<b>100</b>	These Intrusion programs aid hacking attempts, giving a bonus equal to their Rating. Intrusion software is illegal. It is multi-function, capable carrying out various illegal acts within a target computer system (see Cyberspace, in the <b>ZAIBATSU</b> rulebook). Several Icebreakers can (and should!) be slotted into a computer at once.
<b>Icebreaker 2</b>	<b>2*</b>	<b>150</b>	
<b>Icebreaker 3</b>	<b>3*</b>	<b>250</b>	
<b>Icebreaker 4</b>	<b>4*</b>	<b>400</b>	
<b>Icebreaker 5</b>	<b>5*</b>	<b>800</b>	
<b>Icebreaker 6</b>	<b>6*</b>	<b>1200</b>	
<b>Icebreaker 7</b>	<b>7*</b>	<b>3000</b>	
<b>Icebreaker 8</b>	<b>8*</b>	<b>6000</b>	
<b>Icebreaker 9</b>	<b>9*</b>	<b>12,000</b>	
<b>Icebreaker 10</b>	<b>10*</b>	<b>24,000</b>	
Icebreaker Ratings are used in Cyberspace and are not restricted by the Model number of the computer. The Model number simply limits you to how many icebreakers you can slot in.			
<b>Voice-Activated Interface</b>	<b>1</b>	<b>100</b>	Simple artificial intelligence allows voice control and displays data intelligently. Required for using Expert programs.
<b>Expert Skill 1</b>	<b>1</b>	<b>1000</b>	Expert programs are interactive skill databases, able to provide intelligent solutions to problems on the fly. A character using an expert system may make a skill check as if he had the skill at the program's Rating -1. Only Intelligence and Education-based checks can be attempted.
<b>Expert Skill 2</b>	<b>2</b>	<b>10,000</b>	
<b>Expert Skill 3</b>	<b>3</b>	<b>\$M 0.1</b>	
<b>Intellect Control 1</b>	<b>1</b>	<b>2000</b>	Intellect Control allows machinery to use Expert systems. For example, a robot doctor might be running Intellect Control/1 and Expert Skill Medical/3, giving it a Medical skill of 2. An Intellect Control program can use a number of skills simultaneously equal to its Rating.
<b>Intellect Control 2</b>	<b>2</b>	<b>50,000</b>	
<b>Intellect Control 3</b>	<b>3</b>	<b>\$M 0.1</b>	



Standard software cassette

# CLOTHING & PROTECTION

Item	Brand Leader	AR	Cost	Wgt
<b>Boots</b>	various	-	60	-
<b>Ballistic Vest</b>	Stern B Ballistic Vest	5	450	2
<b>Cold Weather Clothing</b>	various	-	200	2
<b>Combat Armor Suit</b>	Hewison M5 Integrated Combat Suit	11	20,000	18
<b>Concealed Vest</b>	Stern C Concealable Vest	4	500	1
<b>Desert Clothing</b>	various	-	80	-
<b>Hostile Environment Suit</b>	Tharsis H200 Hostile Environment Suit	8	18,000	40
<b>Poncho</b>	KNiTK Poncho	-	30	0.5
<b>Rigid Armor Plate</b>	Enforcer Rigid Plated Armor	9	3250	4
<b>Surface Mask</b>	Yoshiko GP Surface Mask	-	150	-
<b>Survival Suit</b>	Tharsis H-10 Survival Suit	2	500	2
<b>Utilities</b>	Utilities	-	160	-
<b>Vacc Suit (Hard)</b>	Tharsis A38 Hard Suit	6	9000	9
<b>Vacc Suit (Mining)</b>	McConnell 720 Mining Suit	8	9650	9
<b>Vacc Suit (Soft)</b>	McConnell 456 Soft Suit	4	6000	12

**Boots:** A pair of SSG Commando Tactical Boots, standard Marine Corps issue. Used for civilian hiking and expedition work.

**Cold Weather Clothing:** Protects against bitterly cold weather (-20° C or below). Adds a DM+2 to all Endurance checks made to resist the effects of cold weather exposure. Various brands offer arctic clothing, including Novomo, Bauspace, KNiTK, and YoYo. Cost \$200. Weight 2 kg.

**Desert Clothing:** Clothing suitable for hot desert conditions is not expensive and usually consists of a hat or head scarf to shade the head, sunglasses and loose-fitting trousers and shirts designed to cool the body. Exposed skin must be covered and protected. Includes sturdy desert boots. Various brands offer arctic clothing, including Novomo, Bauspace, KNiTK, and YoYo. Cost \$80. Weight negligible.

**Enforcer M21 Rigid Plated Armor:** Enforcer Armaments Corporation produces ERPA or rigid plated armor that is made of a composite alloy shell - mainly titanium aluminide alloy over a layer of boron carbide resin fixed to a core of carbon-fiber. A Kevlar/Salar woven liner rounds off the protection. It comes in the form of a helmet; a full-torso, clamshell-style, rigid body shell; and a set of lower leg guards. The Enforcer M34 Helmet features microphone, tactical camera, slide-down protective visor and an integral Zenith PRC-45 short-range radio. This is exclusively military or paramilitary. Cost \$3250. Weight 4 kg.

**Hewison M5 Integrated Combat Suit:** In environments where the warfighter requires complete environmental protection, then Hewison Industries offers the M5 Integrated Combat Suit. This full-body suit provides protection in vacuum, high or low temperature, against biological or chemical agents, in atmospheres that are

unbreathable and against radiation typically found in a hard vacuum (decreasing exposure by up to 40 rads/hr). It can support a soldier for six hours much like a standard space suit, but the M5 is made of Kevlar and Salar woven layers sandwiching ceramic plates. Titanium-carbide plates reinforce vulnerable areas and these rigid sections are backed by carbon-fiber. To reduce radar signature, the suit is coated with radar-absorbent neoprene polymer impregnated with conductive carbon black particles. The suit includes a Zenith PRC-45 radio, multi-beam flashlight, tethers and equipment pockets, TapTint™ anti-flash visor technology and thermal masking. This last feature provides the infantryman with a modicum of stealth against infra-red sensor devices: heat is sunk into a chill can which must be replaced after one-hour of use. The M5 is exclusively frontline military. Cost \$20,000. Weight 18 kg.

**KNiTK Poncho:** A useful hooded waterproof coverall, with a reversible sun-reflective inner). Cost \$30. Weight 0.5kg.

**McConnell 456 Soft Suit:** The soft vacc suit can be used in a vacuum, but to prevent ballooning, the air pressure must be reduced. This requires wearers to have spent some hours prior to the EVA pre-breathing oxygen. Because of this, hard suits are instead routinely used for work in a vacuum or near vacuum. Soft suits, meanwhile, are used on planetary surfaces for protection against low pressures, radiation (decreasing exposure by up to 20 rads/hr), cold temperatures and unbreathable atmospheres. The suit has a duration of six hours. Cost \$6,000. Weight 12 kg.

**McConnell 720 Mining Suit:** Designed for hard, physical labour and includes advanced temperature control, climbing harness, flashlights and rad counter. Used by miners or others working in hazardous conditions, the suit is a soft suit with a rigid torso and includes significant armoured protection (AR 6). The mining suit can be used in a vacuum, just like soft suits, but to prevent ballooning, the air pressure must be reduced. This requires wearers to have spent some hours prior to the EVA pre-breathing oxygen. Because of this, hard suits are instead routinely used for work in a vacuum or near vacuum. The suit has a duration of eight hours. Cost \$9,650. Weight 9 kg.



**Stern B Ballistic Vest:** This tactical vest protects the torso, and is worn over clothing. Made of woven Salar and Kevlar ballistic cloths, with hardened light-weight K-type ceramic inserts, the vest is good for protection against low-caliber rounds and high-velocity fragmentation. In a variety of colors, or camo patterns. Includes lots of pockets for carrying ammo and equipment. Cost \$450. Weight 2 kg.

**Stern C Concealable Vest:** A light-weight soft ballistic vest for the torso made of impact resistant Salar and Kevlar fibers. The fabric absorbs impact energy and spreads it over the torso, which can result in bruising. It can be effectively concealed under normal clothing although observers making an Int check at 8+ will notice something unusual. Cost \$500. Weight 1 kg.

**Tharsis A38 Hard Suit:** The hard vacc suit is the spacer's best friend, providing life support and protection when in space. The suit provides a breathable atmosphere and protection from the extremes of temperature, low pressure and radiation typically found in a hard vacuum (decreasing exposure by up to 40 rads/hr), for six hours. Hard suits are rigid and have segmented joints for freedom of movement, they can operate at high pressures which means wearers do not need to pre-breathe oxygen before use. Cost \$9,000. Weight 9 kg.

**Tharsis H200 Hostile Environment Suit:** Hostile environment suits are designed for conditions where a normal vacc suit would be insufficient, such as deep underwater, worlds shrouded in toxic or corrosive gases, extremes of radiation or temperature, or other locales that offer serious physical danger as well as the lack of a breathable atmosphere. HEV suits provide all the life support offered by a normal vacc suit (for six hours) but are also impervious to flames, intense radiation such as that found at nuclear blast sites (decreasing radiation exposure by 90 rads/hr), and high pressure environments like undersea trenches. Cost \$18,000. Weight 40 kg.

**Tharsis H-10 Survival Suit:** Designed to protect the wearer from extreme cold or heat (-50°C to +50°C), the environment suit has a hood, gloves and boots but leaves the face exposed in normal operations. It uses a power cell to provide internal heating or cooling. Although the survival suit provides a good seal against moisture or heat loss, the survival suit is not airtight or pressurized. Power cells will last for 20 days. Cost \$500. Weight 2 kg. Armour Rating 2.

**Utilities:** These are the tough, military-style utilities, patterned after the US Marine Corps' Operational Combat Uniform (OCU), and made up of jacket, shirt and pants. The utilities come in various colours as well as standard Marine camouflage patterns. The pants and jacket have multiple cargo pockets. Various brands offer utilities, including Novomo, Bauspace, KNiTK, and YoYo. Cost \$160, Weight: negligible.

**Yoshiko GP Surface Mask:** A common Off-World survival mask that can filter contaminants, taints, smoke and dust (atmosphere types 4, 7, and 9) but that can also compress breathed air to allow survival in a low pressure atmosphere (types 2 and 3). Useful in Very Thin or Tainted atmospheres. Cost \$150. Weight negligible.



# EXPEDITION GEAR

Item	Brand Leader	Cost	Wgt
<b>Aqualung</b>	Aquatech 3-Series Rebreather	4000	4
<b>Axe</b>	Novomo Forge Heavy Duty Axe	30	2.5
<b>Binoculars</b>	Zenith CF Falcon Binoculars	300	1
<b>Camera</b>	Sony Matrix DD1018 Digital Camera	500	1
<b>Cargo Box</b>	Stern PA58 Hard Case	60	1
<b>Compass</b>	ARMI Magnetic Compass	20	-
<b>Diving Equipment</b>	Aquatech Pro-Swim 600 Dive Set	200	3
<b>Electric Fence</b>	Lunar D-FEND Electric Fence	600	10
<b>Electronic Scanner</b>	Novomo Pro-Series EM Scanner	450	0.2
<b>Floodlight</b>	Yoshiko AD321 Floodlight	400	8
<b>Generator (Diesel)</b>	Reiner-Gama 200 Portable Diesel Generator	4,500	170
<b>Generator (Fusion)</b>	Reiner-Gama 347 Portable Fusion Generator	500,000	170
<b>First Aid Kit</b>	Haruna Priority First Aid Kit	50	0.5
<b>Flashlight</b>	Norden LSG5 Flashlight	120	1
<b>Folding Spade</b>	M1967 Folding Spade	30	1.5
<b>Grapnel</b>	Gerber Grapnel	30	0.2
<b>Head Torch</b>	Norden LSAA Head-torch	70	0.2
<b>Inertial Locator</b>	Gulfstar INS44 Inertial Nav System	1000	1.5
<b>Locator Beacon</b>	Gulfstar PLB2 Personal Locator Beacon	100	-
<b>Metal Detector</b>	Aldine Metal Detector	550	2
<b>Motion Tracker</b>	IE J34 Motion Tracker	1680	1
<b>Net, Small</b>	Sanga Capture Net, Small	50	2
<b>Net, Large</b>	Sanga Capture Net, Large	120	4
<b>Night-Vision Goggles</b>	Reiner-Gama 101 Night-Vision Goggles	500	0.2
<b>Oxygen Tanks</b>	Bintang RELY Oxygen Tanks	2000	4
<b>Parachute</b>	AeroFrame B6 Parafoil	800	12
<b>Raft</b>	Aquatech Ranger-100 Raft	120	2
<b>Radiation Detector</b>	Aldine ARB Radiation Badge	50	-
<b>Rucksack</b>	Aldine Colonial 1200 Rucksack	80	-
<b>Solar Power Charger</b>	Inferno Electronics T10 Solar Base	50	0.3
<b>Wrist Watch</b>	Seiko 234-501 Pulsemeter Wrist Watch	200	-

**AeroFrame B6 Parafoil:** A steerable parafoil-style lightweight parachute, with altimeter, reserve chute, helmet and goggles. Cost \$300. Weight 12kg.

**Aldine ARB Radiation Badge:** Indicates presence and intensity of radioactivity within a 30-meter radius. The indicating signal will grow stronger as it gets closer to the source. Cost \$50. Weight negl.

**Aldine Colonial 1200 Rucksack:** A waterproof 40 liter rucksack, with side and front pockets and equipment straps below and above. It includes attachments for a Hydro-Pack. Holds roughly 25kg of kit. Cost: \$80. Weight negligible.

**Aldine Metal Detector:** Indicates presence of metal within a 3 meter radius (including underground), with the indicating signal growing stronger as it gets closer to the source. Cost \$550. Weight 2kg.

**Aquatech 3-Series Rebreather:** Extracts oxygen from water to allow the wearer to breathe for an unlimited time underwater. Functions only on worlds with thin, standard, or dense (type 4 through 9) atmospheres. Cost \$4,000. Weight 4 kg.

**Aquatech Pro-Swim 600 Dive Set:** Includes swim fins, wet suit, face mask. Protects against the effects of cold (5° Celsius or below), along with improving speed and maneuverability underwater; add DM +1 to all movement skill checks in these situations when wearing proper swimming equipment. Cost \$200. Weight 3kg.

**Aquatech Ranger-100 Raft:** A one-man survival raft used to cross rivers. It is inflatable with a small foot-pump and will carry either one person or 100kg of equipment. \$120. Weight 2kg.

**ARMi Magnetic Compass:** Indicates direction of magnetic north, if any exists. Cost \$20. Weight negl.

**Bintang RELY Oxygen Tanks:** A complete set of compressed oxygen tanks with mask, protective goggles and carry straps; they allow independent breathing in smoke, dust, gas, underwater or in an exotic (type A) atmosphere. Two tanks last 6 hours. Cost \$2000. Weight 4 kg.

**Gerber Grapnel:** A small, light-weight, folding grapnel used for climbing, but with many other uses too, as a pick or even an anchor! Cost \$30. Weight 0.200kg. Combat: Close Quarter Range, DM -1, 2D6.

**Gulfstar INS44 Inertial Nav System:** A hand-held or belt-mounted device which indicates direction and distance traveled from the starting location, usually imaging directly in to a preloaded map set for precision navigation. Cost \$1,000. Weight 1.5kg.

**Gulfstar PLB2 Personal Locator Beacon:** A wrist-mounted emergency beacon with a range (once activated) of up to 10 km. The PLB uses a standard emergency frequency which can be tracked by any modern avionics system, or either a Gulfstar Hand Radio or a Novomo EM Scanner. The signal will last for 24 hours. Cost \$100. Weight negl.

**Inferno Electronics J34 Motion Tracker:** The Inferno Electronics J34 Motion Tracker is a hand-held unit with a simple shoulder-strap that uses discriminatory Doppler shift ultra-sound scanning to detect movement within a 100 degree cone ahead of the operator. Range varies, from 10-20m indoors to almost 600-800m in open country. They are useful tools, but subject to varied limitations, anything that moves can show up on the reading if not properly tuned out, extremely slow-moving objects may not show up at all, and of course any enemy listening in will probably detect the loud ultra-sound bursts being emitted from the J34. To operate a motion tracker, the referee makes an Average Comms roll on the player's behalf. With a

success he can give the player a pretty accurate indication of what the scanner is picking up; if unsuccessful, then he should give the player false data. Player involvement can be increased by letting he or she roll **one** of the 2D6, with the referee rolling the other in secret. Cost: \$1680. Weight 1kg.

**Inferno Electronics T10 Solar Base:** A fold-out solar power charger, only 15cm wide when folded. Able to charge flashlights, lamps, radios, nav units, night-vision goggles etc. but time to recharge depends on the typical power usage of the device being charged and the available daylight. Cost: \$50. Weight: 0.3kg

**Haruna Priority First Aid Kit:** A small medical kit carried on a pouch that fits onto a rucksack or belt. It contains basic items, bandages, a pressure dressing, antibiotics, painkillers, eye-wash, antihistamines and plasters. It contains enough supplies for two wound treatments. Cost \$50. Weight 0.5kg

**Lunar D-FEND Electric Fence:** This portable electric fence is 1m high and 30m long, it is mounted on 15 aluminum stakes and can be rolled up and slid into a 1m long carry bag. It comes with a rechargeable power cell that has a duration of 4 days. The charge given off acts as a mild irritant, similar to the stock fences used in agriculture, it will deter small to mid-sized creatures, but larger herbivores and carnivores probably won't even notice it. Cost \$600. Weight 10kg.

**M1967 Folding Spade:** A folding military shovel that packs down to the size of a baseball glove and fits into a snug protective case. One edge of the blade is serrated, allowing it to be used as a crude saw. This is an extremely useful piece of equipment. Cost \$30. Weight 1.5 kg. Combat: Close Quarters Range, DM -2, 2D6.

**Norden LSGS Flashlight:** A waterproof and impact resistant flashlight, roughly 20 cm in length, with an endurance of 6 hours. A flashlight produces a wide cone of light up to 18 meters long with a radius of 6 meters at the end of the beam. Cost \$120. Weight 1kg.

**Norden LSAA Head-torch:** A powerful little head-torch, its use allows for illumination with hands-free. Cost \$70. Weight 200g.

**Novomo Forge Heavy Duty Axe:** A polymer handled heavy-duty self-sharpening axe for camping, emergency rescue, construction, etc. Comes with a protective case for the steel axe-head. Cost \$30. Weight 2.5 kg. Combat: Extended Reach Range, DM -1, 3D6.

**Novomo Pro-Series EM Scanner:** This device detects the electromagnetic emissions of technological devices, and can be used as a diagnostic tool when examining equipment (+1 DM to work out what's wrong with it) or when searching for hidden bugs or devices. The Comms skill can be used to sweep a room for bugs. Cost \$450. Weight 200g.

**Reiner-Gama 200 Portable Diesel Generator:** A portable power unit can be invaluable in an environment without electricity. This 7000 watt generator can fit in the back of a four-wheel drive, it provides continuous electricity for 7 hours and includes a charging adaptor for most types of power cells. It runs on diesel, requiring 20 liters for a full tank and has an electric starter. Be warned that the generator is a diesel engine and makes a lot of noise. Cost \$4500. Weight 170kg (with full tank).

**Reiner-Gama 347 Portable Fusion Generator:** This is a heavy-duty portable fusion generator, capable of recharging or powering equipment for up to six months of use. Cost \$500,000. Weight 170 kg.

**Reiner-Gama 101 Night-Vision Goggles:** These unobtrusive goggles allow good vision in near total darkness, as long as there is some starlight or other ambient light to enhance. Cost \$500. Weight 200g.

**Sanga Capture Net, Small:** A tough net, 4 sq. meters in size, used to catch small animals. It has other uses, too. \$50. 2kg.

**Sanga Capture Net, Large:** A tough net, 8 sq. meters in size, used to catch small animals. It has other uses, too. \$120. 4kg.

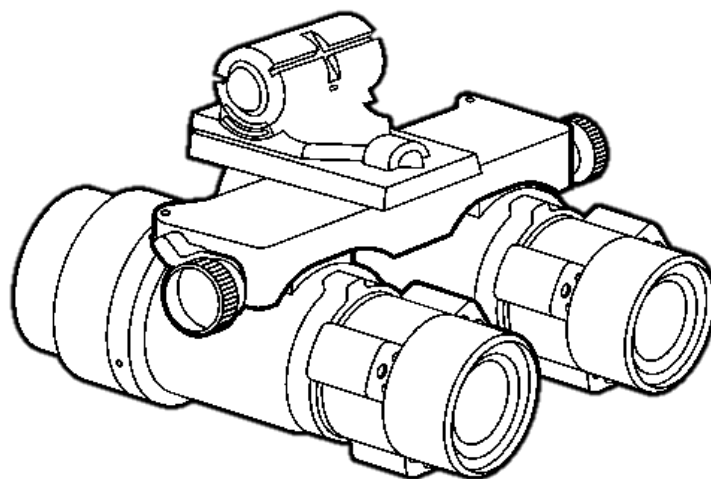
**Seiko 234-501 Pulsemeter Wrist Watch:** Allows the user to tell the local time but it can also be configured to multiple worlds, as well as standard time, and allows the user to configure alarms based on specific times. The wristwatch has a stopwatch feature as well as a life signs monitor function. It is digital. Cost \$200. Weight negl.

**Sony Matrix DD1018 Digital Camera:** A hand-held digital camera capable of still photography as well as video. It is capable of low-light photography, and includes an in-built timer. The camera can take 300 still shots, or up to two hours of video. It can be plugged directly into any computer for the download of images and video. Cost \$500. Weight 1kg.

**Stern PA58 Hard Case:** Tough steel cargo case (32x20x22cm) perfect for carrying ammunition, equipment or supplies. It features a waterproof rubber seal and a tight closing snap closure, multiple carrying handles and steel eyes for fastening to the back of a quad track, the roof or an APC or for stacking securely on a cargo deck. Assume it can carry 300 rounds of rifle ammo, or 500 rds of caseless ammo, 600 rds of pistol ammo or 200 rounds of shotgun ammo or two 100rd belts of rifle ammo.

**Yoshiko AD321 Floodlight:** A portable LED floodlight mounted on a telescopic pole. The pole ends in four legs than can be pegged into the ground. At the base of each light is a rechargeable power cell. The floodlight has power for 16 hours of continuous operation. Cost \$400. Weight 8kg.

**Zenith CF Falcon Binoculars:** These high-tech binoculars feature low-light night-vision and a laser range-finder. Cost \$300. Weight 1kg.



# GENERAL TOOLS

Item	Brand Leader	Cost	Wgt
<b>Axe</b>	Novomo Forge Heavy Duty Axe	30	2.5
<b>Camera</b>	Sony Matrix DD1018 Digital Camera	500	1
<b>Electronic Scanner</b>	Novomo Pro-Series EM Scanner	450	0.2
<b>Flashlight</b>	Norden LSG5 Flashlight	120	1
<b>Electronics Toolkit</b>	Novomo 300 Electronics Toolkit	1000	12
<b>Engineering Toolkit</b>	Novomo 450 Engineering Toolkit	1,000	12
<b>Handbook</b>	various	100	0.4
<b>Harpoon Grapnel</b>	Yoshiko T78-45 Harpoon Grapnel	400	2
<b>Head Torch</b>	Norden LSAA Head-torch	70	0.2
<b>Mechanical Toolkit</b>	Novomo 380 Mechanical Toolkit	1000	12
<b>Metal Detector</b>	Aldine Metal Detector	550	2
<b>Multi-Purpose Tool</b>	Boscan Multi-Tool	30	0.1
<b>Net Gun</b>	Stern ArmaNet 14 Net Gun	900	4
<b>Night-Vision Goggles</b>	Reiner-Gama 101 Night-Vision Goggles	500	0.2
<b>Pen</b>	Fisher AG7 Retractable Space-Pen	60	-
<b>Radiation Detector</b>	Aldine ARB Radiation Badge	50	-
<b>Spade (Folding)</b>	M1967 Folding Spade	30	1.5
<b>Welder, Hand</b>	Gulfstar Plasma 400	350	0.5
<b>Winch, Tripod</b>	Bintang S-CRANE Motorized Winch	880	2
<b>Wirecutters</b>	Aldine Max-Shears	50	0.5
<b>Wrist Watch</b>	Seiko 234-501 Pulsemeter Watch	200	--

**Aldine Max-Shears:** Heavy-duty wire-cutting shears, a basic tool. Cost \$50. Weight 0.5kg.

**Aldine ARB Radiation Badge:** Indicates presence and intensity of radioactivity within a 30-meter radius. The indicating signal will grow stronger as it gets closer to the source. Cost \$50. Weight negl.

**Aldine Metal Detector:** Indicates presence of metal within a 3 meter radius (including underground), with the indicating signal growing stronger as it gets closer to the source. Cost \$550. Weight 2kg.

**Bintang S-CRANE Motorized Winch:** A telescopic tripod with motorized winch that can raise and lower up to 100kg. It includes 10m of cable. \$880. Weight 3kg.

**Boscan Multi-Tool:** A compact single tool with extendable tool heads and blades. Comes in its own belt-mounted wallet. \$30. Weight negligible.

**Fisher AG7 Retractable Space-Pen:** Unlike ordinary ballpoint pens Fisher Space Pens have a pressurized refill which allows them to write upside down and at any angle as well as in extreme conditions, from -34°C up to 121° C. Not only can it write in zero-G but it can even write over grease and under water.

**Gulfstar Plasma 400:** A compact hand welder used either for welding together metals or for cutting through metal sheet. Burn time is 30 minutes before a refill gas bottle is required. Cost \$350. Weight 0.5kg. Combat: Extended Reach Range, DM -1, 2D6, 5 shots.

**Handbook:** Every important piece of equipment, has its own handbook, as do operating procedures, laws and starships. These technical books are printed on paper and published by the manufacturers. Some may save your life, if not for the crucial operating steps they include, but perhaps due to their page-count allegedly being able to stop a bullet. You may come across some of these important handbooks during your daily work:

**ICO (Interstellar Commerce Organization)**

General Operation and Flight Handbook ICO-8045-1-2178-T

International Commercial Spaceflight Law ICO-8034-8-2225-8-A

ICO Inspectors' Handbook ICO-8038-4-2207-U

Signals, Communications and Frequencies ICO-8029-5-2221-H

Safety, Semiotics and Signage ICO-8044-10-2215-Q

Spacesuit Operation and Maintenance Handbook ICO-8046-3-2222-C

Starship Technical Manual ICO-8041-5-2218-K

**MRA (Mining Regulatory Agency)**

Guide to Interstellar Resource Extraction Regulations MRA-3411-6-2211-F

Catalog of Off-World Resources MRA-3421-8-2221-P

The Working Practices in Space Industry Manual MRA-3500-12-2223-B

Zero-G Machinery: Theory and Practice MRA-3428-8-2217-L

**FCMS (Federal Colonial Marshal Service)**

Handbook to Off-World Law Enforcement FCMS-1011-2-2223-D

Use and Effect of Firearms in Zero-G Environments FCMS-1185-12-2220-B

Current Crime Gangs and Trends in the American Sector FCMS-1155-8-2215-V

**USMC (United States Marine Corps)**

Combat Skills of the Soldier FM 21-75

Survival FM 21-76

First Aid FM 4-25

Rifles, M24 Caseless Family TM 19-1005-223-20

Tactical Radio Operations FM 6-09

**M1967 Folding Spade:** A folding military shovel that packs down to the size of a baseball glove and fits into a snug protective case. One edge of the blade is serrated, allowing it to be used as a crude saw. This is an extremely useful piece of equipment. Cost \$30. Weight 1.5 kg. Combat: Close Quarters Range, DM -2, 2D6.

**Novomo 300 Electronics Toolkit:** Required for electrical repairs and installations. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Novomo 380 Mechanical Toolkit:** Required for repairs and construction. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Novomo 450 Engineering Toolkit:** Required for performing repairs and installing new equipment. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Novomo Forge Heavy Duty Axe:** A polymer handled heavy-duty self-sharpening axe for camping, emergency rescue, construction, etc. Comes with a protective case for the steel axe-head. Cost \$30. Weight 2.5 kg. Combat: Extended Reach Range, DM -1, 3D6.

**Novomo Pro-Series EM Scanner:** This device detects the electromagnetic emissions of technological devices, and can be used as a diagnostic tool when examining equipment (+1 DM to work out what's wrong with it) or when searching for hidden bugs or devices. The Comms skill can be used to sweep a room for bugs. Cost \$450. Weight 200g.

**Norden LSGS Flashlight:** A waterproof and impact resistant flashlight, roughly 20 cm in length, with an endurance of 6 hours. A flashlight produces a wide cone of light up to 18 meters long with a radius of 6 meters at the end of the beam. Cost \$120. Weight 1kg.

**Norden LSAA Head-torch:** A powerful little head-torch, its use allows for illumination with hands-free. Cost \$70. Weight 200g.

**Reiner-Gama 101 Night-Vision Goggles:** These unobtrusive goggles allow good vision in near total darkness, as long as there is some starlight or other ambient light to enhance. Cost \$500. Weight 200g.

**Seiko 234-501 Pulsemeter Wrist Watch:** Allows the user to tell the local time but it can also be configured to multiple worlds, as well as standard time, and allows the user to configure alarms based on specific times. The wristwatch has a stopwatch feature as well as a life signs monitor function. It is digital. Cost \$200. Weight negl.

**Sony Matrix DD1018 Digital Camera:** A hand-held digital camera capable of still photography as well as video. It is capable of low-light photography, and includes an in-built timer. The camera can take 300 still shots, or up to two hours of video. It can be plugged directly into any computer for the download of images and video. Cost \$500. Weight 1kg.

**Stern ArmaNet 14 Net Gun:** This bulky gun is designed to launch small capture nets out to a range of 10m and is used to capture small, moving

Stern ArmaNet 14 Net Gun					
Wgt	ROF	Range	Dmg	Recoil	Rds
4kg	1	Pistol	special	8+	1

creatures. The net takes around 5 minutes to repack into its launch canister. It comes with 4 pre-packed net canisters. Cost \$900. Weight 4 kg. (loaded).

**Yoshiko T78-45 Harpoon Grapnel:** Rifle-sized grapnel launcher, using compressed air to launch a spring-loaded grapnel up to a 10 meter height. It includes a small powered winch to haul the user (or up to 100 kg) up. The grapnel is often part of a well-equipped survival kit onboard starship lifeboats, as part of the kit's climbing gear. Cost \$680. Weight 4 kg. Combat: Pistol Range, DM 0, 2D6, 1 shot.



# LIVING

<b>LIFESTYLE</b>	<b>Cost</b>
Apartment/Week: Subsistence	60
Apartment/Week: Lower Class	150
Apartment/Week: Middle Class	250
Apartment/Week: Senior Class	500
Apartment/Week: Executive Class	1000
Hotel/Day: Capsule	15
Hotel/Day: Cheap	30
Hotel/Day: Business	120
Hotel/Day: First Class	400
Hotel/Day: Premier Deluxe	1000
<b>FOOD</b>	<b>Cost</b>
Breakfast/hotel or restaurant	10
Breakfast in coffee shop	5
Lunch	10
Dinner - three courses	30
Take-Away	8
Beer, Bottle (Kirin/Sapporo/Red Dagon)	3
Wine, Bottle	5-30
Spirit, Bottle	20

# MEDICAL

Item or Treatment	Cost	Wgt
<b>Air Hypo</b>	120	-
<b>Alpha Wave Unit</b> Fits in an vehicle. Analyses and identifies different brain waves, and personalities; and everyone's brainwave pattern is different. Also used to edit clone memories	500,000	10
<b>Body Reconstruction</b>	200,000	-
<b>Clone Insurance</b> /\$20,000 per month plus:	50,000	-
<b>Cortex Bomb</b> A small explosive charge surgically implanted into a patient's neural cortex. Often booby-trapped, these bombs are sometimes triggered by ultrasound or X-rays. They can be command detonated at a range of 100m and also through the telephone if the patient picks up the phone. It will kill him instantly.	2,000	-
<b>Empathy Machine</b> A lie-detector, also detects clones that have been "force-grown" and are faking their emotions: roll Difficult (-2) Comms, takes 1 hour.	10,000	2
<b>Face Change</b>	5,000	-
<b>Factor K</b> Used in memory retrieval. Keeps a brain alive for 3d hours.	100	-
<b>First Aid Dressing</b> This is single dressing, large enough for a blade slash or bullet wound, with a single dose of endorphin analog, all packed into a small waterproof pouch. Anyone trying to give first aid will use the patient's own dressing.	5	-
<b>First Aid Kit</b> A small medical kit carried on a pouch that fits onto a rucksack or belt. It contains basic items, bandages, a pressure dressing, antibiotics, painkillers, eye-wash, antihistamines and plasters. It contains enough supplies for two wound treatments.	50	0.5
<b>Folding Stretcher</b>	250	3
<b>Freezer Box</b> Used in memory retrieval. Portable cryo-unit. Can freeze single human head or six tissue samples on mounting plates. Handle and cardlock included. Battery with 48 hour charge.	600	3
<b>Full Body Ultrasound Scan</b>	800	-
<b>Organ Replacement</b>	2000	-

<b>Personal Data Transmitter (PDT)</b> Implanted transmitter which lies dormant until activated by a remote transmitter. When this is done (when the patient has been kidnapped, for example) the PDT gives out a steady signal strong out to about 5km. It can also hook itself through the nearest phone terminal.	400	-
<b>Simstim Rig</b> A neural processor at the base of the skull monitors and transmits the user's sensory perceptions to a Simstim Edit Deck. This includes eyesight, smell, hearing, motion and touch.	4000	-
<b>Surgical Kit</b> A comprehensive medical bag, used by a paramedic or doctor to deal with serious injuries. The immediate responder trauma and first aid backpack is a complete system. The kit was originally designed for company safety personnel, first aid departments, disaster preparation and emergency response teams that would need to get to injured people and provide care on the scene. The high-vis, red backpack is organized into separate sections covering everything from burns to fractures, anaphylaxis to choking injuries, heart attack and many others. Contains enough supplies for six major treatments.	350	6

Designer Drugs	Cost
ACE Inhibitor	100
Aspedine	300
Benzoditropolene	600
Betaseratonin	400
Delta-14	700
Dexamphetamine	200
Korteline	400
Lysophosphatidic Acid	300
Medical Drug – Grade 1	200
Medical Drug – Grade 2	800
Medical Drug – Grade 3	2000
Pheromone-X	400
Polydichloric Euthimal	500
Polypheronol-Z	1000
Synthetic Endorphin Analog	300
Virax-B	200

# MILITARY

## ARMOUR

Item	Brand Leader	AR	Cost	Wgt
<b>Ballistic Vest</b>	Stern B Ballistic Vest	5	450	2
<b>Combat Armor Suit</b>	Hewison M5 Integrated Combat Suit	11	20,000	18
<b>Concealed Vest</b>	Stern C Concealable Vest	4	500	1
<b>Rigid Armor Plate</b>	Enforcer Rigid Plated Armor	9	3250	4

**Enforcer M21 Rigid Plated Armor:** Enforcer Armaments Corporation produces ERPA or rigid plated armor that is made of a composite alloy shell - mainly titanium aluminide alloy over a layer of boron carbide resin fixed to a core of carbon-fiber. A Kevlar/Salar woven liner rounds off the protection. It comes in the form of a helmet; a full-torso, clamshell-style, rigid body shell; and a set of lower leg guards. The Enforcer M34 Helmet features microphone, tactical camera, slide-down protective visor and an integral Zenith PRC-45 short-range radio. This is exclusively military or paramilitary. Cost \$3250. Weight 4 kg.

**Hewison M5 Integrated Combat Suit:** In environments where the warfighter requires complete environmental protection, then Hewison Industries offers the M5 Integrated Combat Suit. This full-body suit provides protection in vacuum, high or low temperature, against biological or chemical agents, in atmospheres that are unbreathable and against radiation typically found in a hard vacuum (decreasing exposure by up to 40 rads/hr). It can support a soldier for six hours much like a standard space suit, but the M5 is made of Kevlar and Salar woven layers sandwiching ceramic plates. Titanium-carbide plates reinforce vulnerable areas and these rigid sections are backed by carbon-fiber. To reduce radar signature, the suit is coated with radar-absorbent neoprene polymer impregnated with conductive carbon black particles. The suit includes a Zenith PRC-45 radio, multi-beam flashlight, tethers and equipment pockets, TapTint™ anti-flash visor technology and thermal masking. This last feature provides the infantryman with a modicum of stealth against infra-red sensor devices: heat is sunk into a chill can which must be replaced after one-hour of use. The M5 is exclusively frontline military. Cost \$20,000. Weight 18 kg.

**Stern B Ballistic Vest:** This tactical vest protects the torso, and is worn over clothing. Made of woven Salar and Kevlar ballistic cloths, with hardened light-weight K-type ceramic inserts, the vest is good for protection against low-caliber rounds and high-velocity fragmentation. In a variety of colors, or camo patterns. Includes lots of pockets for carrying ammo and equipment. Cost \$450. Weight 2 kg.

**Stern C Concealable Vest:** A light-weight soft ballistic vest for the torso made of impact resistant Salar and Kevlar fibers. The fabric absorbs impact energy and spreads it over the torso, which can result in bruising. It can be effectively concealed under normal clothing although observers making an Int check at 8+ will notice something unusual. Cost \$500. Weight 1 kg.

<b>ACCESSORIES</b>			
<b>Accessory</b>	<b>Brand Leader</b>	<b>Cost</b>	<b>Wgt</b>
<b>Ammo Box</b>	Stern PA58 Hard Case	60	1
<b>Bipod</b>	Novomo Crux Bipod	75	0.8
<b>Body Bag</b>	Kinako Survival Bag N401	5	-
<b>Cartridge Belt</b>	Nickelback Frontier Cartridge Belt	5	-
<b>Gun Cleaning Kit</b>	Magtech Universal Care Kit	100	0.25
<b>Laser Sight</b>	Okuda HR1 Terminal Spot Laser	200	1.5
<b>Scope</b>	Inferno Electronics 500 Powerscope	1000	0.8
<b>Shoulder Stock</b>	Magtech FS100 Frame-Stock	75	0.8
<b>Snail Drum Pistol Magazine</b>	Miyagi Hi-Capacity Drum Series 3	130	1
<b>Speedloader</b>	Steyr Grand Ace Speedloader	10	0.12
<b>Suppressor</b>	Voroncovo KL Suppressor	300	--
<b>Tactical Light</b>	Overshot Tac-100	120	0.1
<b>Toughened Scope</b>	Inferno Electronics 800 Toughscope	2500	1.2
<b>Underslung Grenade Launcher</b>	Noricum Railrider 30GL	1000	1

**Inferno Electronics 500 Powerscope:** High-quality telescopic sights with image intensification and low-light capabilities for night-shooting. These are attached to the upper surface of firearms, in order to increasing their accuracy, especially at longer ranges. A weapon equipped with such sights gains an extra +1 DM bonus to *any attack that has been aimed*. Scopes are delicate, however, and may be jarred out of alignment by any violent action (such as being left untended in a moving truck, a close explosion, or being dropped) on an 8+ on 2D6. When the sights go out of adjustment, the firer will always miss. Some guns already come with integrated scopes, see the individual descriptions. Cost \$1000. Weight 0.8kg.

**Inferno Electronics 800 Toughscope:** A ruggedized version of the Inferno Electronics 500 sights for use in hostile atmospheres, vacuum and extreme temperatures. They are almost unbreakable. Cost \$2500. Weight 1.2kg.

**Kinako Survival Bag N401:** Lightweight, tough polyethylene survival bag is essential equipment for every hiker. Use for shelter in an emergency, or for keeping you dry during a heavy rainstorm. Can also be used as a waterproof stash for your kit, for storing muddy clothes and boots in a cramped tent or as a body bag.

**Magtech FS100 Frame-Stock:** Pistols and revolvers may be turned into light carbines by the attachment of a wire-framed folding shoulder stock. The range is increased to the 'assault' range band, although the weapon can no longer be holstered. The overall length of the pistol is increased by the length of the stock, although this can be folded if required. Attaching or detaching the stock takes 5 combat rounds. Cost \$75. Weight 0.8kg.

**Magtech Universal Care Kit:** A set of cleaning rods, brushes and disassembly tools for many types of rifle, pistol SMG and shotgun. Packed into a slim-line waterproof pouch along with a set of lubricant bottles. Cost \$100. Weight 0.25kg.

**Miyagi Hi-Capacity Drum Series 3:** With the advent and popularity of full automatic firing pistols like the VP-90 and the Williams Redhawk, an aftermarket add-on, the snail-drum has become available. This bulky and heavy ammo drum sits below the gun's handgrip and holds 45 rounds. Obviously the weapon can no longer be holstered and remains clumsy and awkward to use. Cost \$130, Weight 1kg (loaded).

**Nickelback Frontier Cartridge Belt:** A leather or nylon belt fitted with cartridge loops designed to hold either 6 propelled grenades, 8 individual shotgun cartridges, 20 pistol rounds or 14 rifle rounds. A different holder must be purchased for each ammunition type. Cost \$5. Weight negligible.

**Noricum Railrider 30GL:** An underslung 30mm grenade launcher can be added to any rifle. This grenade launcher has a magazine of one grenade, cannot fire on automatic and takes four minor actions to reload. Cost \$1000. Weight 1kg.

**Novomo Crux Bipod:** Although some weapons boast integral bipods, firearms sold without such accessories may also be fitted with them. Obviously, a bipod will only benefit a long weapon such as the Stern Universal T51 rifle or Maverick 800 Vector assault rifle. A bipod lowers the recoil by 2 points and makes firing from a prone position for long periods, more comfortable. Cost \$75. Weight 0.8kg.

**Okuda HR1 Terminal Spot Laser:** Integrated optics and red-dot laser sights give an extra +1 DM bonus to *any attack that has been aimed*. Cost \$200. Weight 1.5kg.

**Overshot Tac-100:** Purpose-built flashlight attaching to the top, side or underside of a gun barrel. The flashlight is activated via a button on the flashlight itself.

**Stern PA58 Hard Case:** Tough steel cargo case (32x20x22cm) perfect for carrying ammunition, equipment or supplies. It features a waterproof rubber seal and a tight closing snap closure, multiple carrying handles and steel eyes for fastening to the back of a quad track, the roof or an APC or for stacking securely on a cargo deck. Assume it can carry 300 rounds of rifle ammo, or 500 rds of caseless ammo, 600 rds of pistol ammo or 200 rounds of shotgun ammo or two 100rd belts of rifle ammo.

**Steyr Grand Ace Speedloader:** The speedloader is a preloaded frame of six revolver rounds that can be used to load all six chambers of a revolver simultaneously. The firer may have several speedloaders as part of his equipment to speed the reloading of his revolver. Reloading with a speedloader requires 1 minor action. Cost \$10. Weight 0.12kg (loaded).

**Voroncovo KL Suppressor:** A suppressor can be added to any non-energy weapon with a ROF of 4 or less, partially masking the sound produced by firing (-4 DM to detect). Cost \$300. Weight negligible.



## HAND-TO-HAND WEAPONS

Weapon	Cost	Wgt	Range	DM	Dmg
<b>Unarmed Strike</b>	--	--	close quarters	+0	1D6
<b>Short Club</b>	--	1	close quarters	+0	2D6
<b>Long Club</b>	--	2	extended reach	-1	2D6
<b>Knife, Expedition</b>	60	0.25	close quarters	+0	2D6
<b>Knife, Combat</b>	120	0.25	close quarters	+1	2D6
<b>Short Spike</b>	--	1	close quarters	-1	2D6
<b>Long Spike</b>	--	1.5	extended reach	-1	2D6
<b>Axe</b>	30	2.5	extended reach	-1	3D6
<b>Folding Spade</b>	30	1.5	close quarters	-2	2D6
<b>Machete</b>	50	0.35	extended reach	-1	3D6
<b>Fighting Chain</b>	30	1	extended reach	-1	2D6
<b>Katana (Retracts)</b>	500	1.5	extended reach	+0	3D6
<b>Bladed Fighting Gloves</b>	200	0.5	close quarters	+0	2D6
<b>Nunchaku</b>	60	1	extended reach	+0	2D6
<b>Tanto</b>	100	0.25	close quarters	+1	2D6

**Axe:** A heavy axe used by fire-fighters, loggers, carpenters, expedition team members, etc. It makes a devastating weapon but is not balanced for hand-to-hand fighting. The axe is one meter long.

**Club:** A basic stick used as a weapon. Easily obtained from standing trees or metal pipework, or any other long stick-shaped improvised weapon – including an unloaded long gun such as a rifle. A short club is anything up to 1m in length, while a long club is anything between 1 and 2 meters in length

**Combat Knife:** Typified by the Gerber Mark II, the combat knife is a lethal, serrated, two-edged fighting knife used by marines, soldiers and other military personnel. It makes a decent camp-knife, too. It is approximately 200mm in length and is generally carried in a sheath strapped on military shoulder webbing, on a belt or less frequently concealed in a boot sheath or strapped to the forearm. Combat knives are usually as much a tool as a last-resort weapon of defense, and worn constantly. Each weighs 250 grams.

**Expedition Knife:** A camping, hunting or survival knife that is used for skinning and butchering animals, setting up camp, simple woodcraft and survival activities. It comes with a sheath as well as a built in compass and knife-sharpener. The knife is an able hand-to-hand weapon. Length: 250mm.

**Fighting Chain (Manriki o Kusari-fundo):** A one meter chain used as a fighting weapon, it is easily concealed, yet does as much damage as a club.



**Folding Spade:** The military folding spade or 'entrenching tool' has been used in many conflicts as a weapon of last resort, from the days of Julius Caesar to the Vietnam War. It is short, with a sharp cutting blade and can be wielded in hand-to-hand combat if no other weapon is at hand. The spade is 60 cm long, but folds down to 24 cm and fits within a polymer carrier for mounting on a rucksack or belt.

**Katana (Retracts):** Made fashionable by the Yakuza in recent decades, a steel katana or samurai sword, designed to retract into the handle for maximum concealability. An illegal weapon, on a par with a damage potential of a firearm.

**Machete:** A large, heavy, single-edged knife used in cutting vegetation to clear a camp site. It can also be used as a large camp or field knife. It is generally carried in a belt scabbard. Machetes are more survival tool than weapon, and are often found in emergency kits, lifeboats etc.

**Nekode:** These are Japanese fighting gauntlets featuring long, retractable claws.

**Nunchaku:** The Oriental weapon made famous by Bruce Lee in many of his movies, it comprises two short, heavy clubs joined together by a short steel chain, easily concealed. Used by gangs in the Japanese underworld as well as by the Chinese Snakeheads.

**Spike:** Any improvised weapon with a point or spike on the end. A short spike is classed as anything up to 1 meter in length, while long spike is any pointed improvised weapon between 1 and 3 meters in length.

**Tanto (Dagger):** Like the katana in style - a modern Japanese blade that copies a samurai dagger. The tanto is almost a katana in miniature. Roughly 15-25cm long.

## EXPLOSIVES

Weapon	Brand Leader	Damage	Radius	Cost
<b>Detcord/3m</b>	Titanobel Detcord	3D6	1D6+2	250
<b>Detonator &amp; Line</b>	Inferno Electronics KL Detonator	2D6	1m	50
<b>Plastic</b>	Stern C-4 Plastic Explosive	3D6	2D6m	200
<b>Nuclear Demolition Charge</b>	Nortinghouse M-450 TACFORZ Charge	2D6 x 20 2D6x100rads	160m	120,000
<b>Shot Exploder</b>	Titanobel T31 Shot Exploder	-	-	2100

The Demolitions skill is used with explosives – the Effect of the Demolitions skill check multiplies the damage, with a minimum of x1 damage for an Effect of 0 or 1. Explosives are not legally available on any world with a Law Level of 1 or greater.

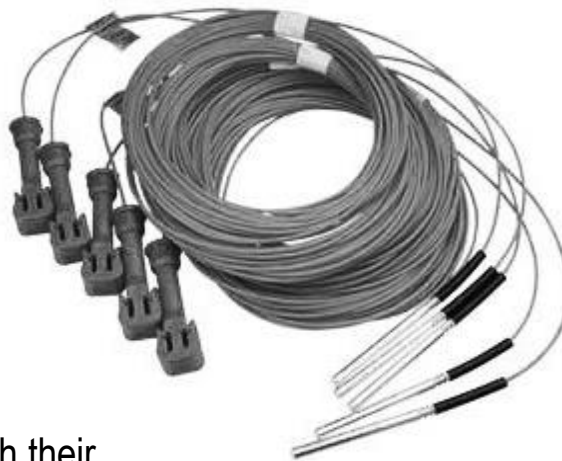
**Nortinghouse M-450 TACFORZ Charge:** This US military demolition charge can be used to blow holes in mountains and destroy large, immobile constructions. It is equal in power to 20 tons of TNT and gives military engineers the ultimate tool for moving, destroying or clearing obstacles in the path of the US warfighter. It is supplied in a card-locked, impact resistant case which can be strapped to a soldier's back. Cost \$120,000. Weight 20 kg.

**Orica KL Detonator:** A cylindrical detonator (or blasting cap) used to ignite detcord or plastic explosive. Each small detonator is pushed into C-4 or into the end of detcord, and the attached firing line (100m long) is plugged into a Shot Exploder. Detonators do contain PETN or ASA (lead azide, lead styphnate and aluminium) and so can explode themselves (and doing 2D6 damage) if treated very harshly. Cost \$50. Weight 1kg (With a 100m-long firing line).

**Titanobel T31 Shot Exploder:** An electrical unit on a carry sling, used to send a current along a firing line to ignite a detonator. Up to six firing lines can be plugged into the unit at one time for a simultaneous blasting. Operated by twisting the charging handle; this discharges the unit's capacitor, that had been previously charged by the integral battery. Charging the capacitor takes 2 minutes. Cost \$2100. Weight 4 kg.

**Stern C-4 Plastic Explosive:** This generic, multi-purpose plastic explosive is a favorite of military units, terrorists, demolition teams and adventurers across known space. C-4 cannot be detonated by a gunshot or by dropping it onto a hard surface. It does not explode when set on fire or exposed to microwave radiation. Detonation can only be initiated by a shockwave, such as when a detonator inserted into it is fired. Cost \$200. Weight 1kg block.

**Titanobel Detcord:** Long plastic tubes of an explosive, usually pentaerythritol tetranitrate (PETN). It has a wide variety of uses, including cutting pipes and trees, breaching doors, and so on. Miners feed detcord into pre-drilled holes in the rock face. When detonated the rock face is shattered. Cost \$250. Weight 0.5



Five detonators with their  
integral firing lines

# MINING

Item	Brand Leader	Cost	Wgt
<b>Auger</b>	Norden Deepcore Electric Auger	800	25
<b>Blasting Mat</b>	Stern CD3 Blasting Mat	2000	75
<b>Bolt Gun</b>	Snap-Fix Griffin Bolter	200	2
<b>Collection Bag</b>	Collection Bag	20	-
<b>Compass</b>	ARMI Magnetic Compass	20	-
<b>Detcord</b>	Titanobel Detcord	250	0.5
<b>Detonator</b>	Orica KL Detonator	50	2
<b>Drilling Cart</b>	Aerodyne Drilling Jumbo	5000	300
<b>Electronics Toolkit</b>	Novomo 300 Electronics Toolkit	1000	12
<b>First Aid Kit</b>	Haruna Priority First Aid Kit	50	0.5
<b>Flashlight</b>	Norden LSG5 Flashlight	120	1
<b>Floodlight</b>	Yoshiko AD321 Floodlight	400	8
<b>Generator (Diesel)</b>	Reiner-Gama 200 Portable Diesel Generator	4,500	170
<b>Generator (Fusion)</b>	Reiner-Gama 347 Portable Fusion Generator	500,000	170
<b>Ground Radar</b>	Aztec EchoFirst Sensor	13,000	80
<b>Hand Drill</b>	Boscan 'Texan-series' Hand Drill	220	1.5
<b>Inertial Locator</b>	Gulfstar INS44 Inertial Nav System	1000	1.5
<b>Jackhammer</b>	Geotech 210 Jackhammer	800	30
<b>Magnetic Field Detector</b>	Maze Labs Geo-Surveyor 1200	10,000	75
<b>Mechanical Toolkit</b>	Novomo 380 Mechanical Toolkit	1000	12
<b>Metal Detector</b>	Aldine Metal Detector	550	2
<b>Multi-Purpose Tool</b>	Boscan Multi-Tool	30	0.1
<b>Radiation Detector</b>	Aldine ARB Radiation Badge	50	-
<b>Rock Bolts</b>	Aldine Type 9 Mining Bolts	200	10
<b>Rock Hammer</b>	Novomo Thor Geohammer	80	1
<b>Shoulder Lamp</b>	Norden LX5T Work Lamp	200	0.2
<b>Shot Exploder</b>	Titanobel T31 Shot Exploder	2100	4
<b>Spade (Folding)</b>	M1967 Folding Spade	30	1.5
<b>Survey Lens</b>	Siemens PowerLens	300	0.1
<b>Survey Toolkit</b>	Aldine Geo Survey Kit	1,000	12
<b>Vacc Suit (Mining)</b>	McConnell 720 Mining Suit	9650	9
<b>Welder, Hand</b>	Gulfstar Plasma 400	350	0.5
<b>Winch, Tripod</b>	Bintang S-CRANE Motor Winch	880	2

**Aerodyne Drilling Jumbo:** Four-wheeled electric cart fitted with an extending arm. This ends in a rock drill, used to drill shallow bore holes – typically for rock blasting with detcord. Cost \$5000. Weight 300kg.

**Aldine ARB Radiation Badge:** Indicates presence and intensity of radioactivity within a 30-meter radius. The indicating signal will grow stronger as it gets closer to the source. Cost \$50. Weight negl.

**Aldine Geo Survey Kit (GSK):** Required for planetary surveys or mapping. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Aldine Metal Detector:** Indicates presence of metal within a 3 meter radius (including underground), with the indicating signal growing stronger as it gets closer to the source. Cost \$550. Weight 2kg.

**Aldine Type 9 Mining Bolts:** A bag of 20 rock bolts. These steel pitons are used to anchor equipment or blasting mats, or the steel mesh used to prevent rock-falls or cave-ins. Hammered in place, or shot into place with a bolt gun. Cost \$200. 10kg. Combat: Close quarters Range, DM -1, 2D6.

**ARMI Magnetic Compass:** Indicates direction of magnetic north, if any exists. Cost \$20. Weight negl.

**Aztec EchoFirst Sensor:** A ground-penetrating radar, mounted on a rugged four-wheeled trolley that can be pulled by hand, or by a quad track or ATV. It works up to 1000 MHz and can be used to analyse subsurface stratigraphy and structure, and the bedrock surface, it can detect changes in rock type, fractures, faults and joints and map depth to bedrock, it can detect sinkholes and measure the thicknesses and image the internal structure of glaciers and ice sheets. The wheeled rig weighs 80kg and costs \$13,000. This includes the Model/1 data terminal which displays and records the data. This data is recorded on optical disc.

**Bintang S-CRANE Motorized Winch:** A telescopic tripod with motorized winch that can raise and lower up to 100kg. It includes 10m of cable. \$880. Weight 3kg.

**Boscan Multi-Tool:** A compact single tool with extendable tool heads and blades. Comes in its own belt-mounted wallet. \$30. Weight negligible. Combat: Close Quarters Range, DM -1, 2D6.

**Boscan 'Texan-series' Hand Drill:** A hand-held drill used to extract shallow survey cores from rock outcrops quickly and without fuss. These cores are no longer than 50cm in length. Cost: \$220. Weight 1.5kg. Combat: Close quarters Range, DM -3, 3D6.

**Collection Bag:** A rock sample bag that can be worn over the shoulder or attached to the waist of a vac suit. \$20. Weight negligible.

**Geotech 210 Jackhammer:** Electrically-powered mobile drill with an in-built compressor that uses hammer action to break apart rock outcrops. A longer interchangeable head can be used to drill a 3m-deep hole for blasting or other purposes. A hand-operated device. Cost \$800. Weight 30kg.

**Gulfstar INS44 Inertial Nav System:** A hand-held or belt-mounted device which indicates direction and distance traveled from the starting location, usually imaging directly in to a preloaded map set for precision navigation. Cost \$1,000. Weight 1.5kg.

**Gulfstar Plasma 400:** A compact hand welder used either for welding together metals or for cutting through metal sheet. Burn time is 30 minutes before a refill gas

bottle is required. Cost \$350. Weight 0.5kg. Combat: Extended Reach Range, DM -1, 2D6, 5 shots.

**Haruna Priority First Aid Kit:** A small medical kit carried on a pouch that fits onto a rucksack or belt. It contains basic items, bandages, a pressure dressing, antibiotics, painkillers, eye-wash, antihistamines and plasters. It contains enough supplies for two wound treatments. Cost \$50. Weight 0.5kg

**Maze Labs Geo-Surveyor 1200:** A powerful magnetometer, based around a superconducting quantum interference device (SQUID) that is typically mounted on a rugged four-wheeled trolley that can be pulled by hand, or by a quad track or ATV. The squid is used to detect the magnetic fields around magnetic types of ore, but it also provides valuable information about the general geological structure of the rock layers using magnetic information. The wheeled rig weighs 75kg and costs \$10,000. This includes the Model/1 data terminal which displays and records the data. This data is recorded on optical disc.

**McConnell 720 Mining Suit:** This vacc suit is well-designed for hard, physical labour and includes advanced temperature control, climbing harness, flashlights and rad counter. Used by miners or others working in hazardous conditions, the suit is a soft suit with a rigid torso and includes significant armoured protection (AR 6). The mining suit can be used in a vacuum, just like soft suits, but to prevent ballooning, the air pressure must be reduced. This requires wearers to have spent some hours prior to the EVA pre-breathing oxygen. Because of this, hard suits are instead routinely used for work in a vacuum or near vacuum. The suit has a duration of eight hours. Cost \$9,650. Weight 9 kg.

**M1967 Folding Spade:** A folding military shovel that packs down to the size of a baseball glove and fits into a snug protective case. One edge of the blade is serrated, allowing it to be used as a crude saw. This is an extremely useful piece of equipment. Cost \$30. Weight 1.5 kg. Combat: Close Quarters Range, DM -2, 2D6.

**Norden Deepcore Electric Auger:** Man-portable boring machine used to drill holes into soft rock or soil. Cost \$800. Weight 25kg.

**Norden LXST Work Lamp:** A shoulder-mounted work light with harness and fittings to attach to a vac suit. Cost \$200. Weight 0.2kg.

**Novomo Thor Geohammer:** A sturdy rock hammer with rubber grip and wrist loop used for manually breaking off rock or mineral samples. It comes with a 1m extension handle that can be locked into place, turning the short hammer into a long-handled rock hammer. It can also be used to drive in rock bolts, or 'realign misbehaving equipment'. Cost \$80. Weight 1kg. Combat: Extended Reach Range, DM +1, 2D6.

**Novomo 300 Electronics Toolkit:** Required for electrical repairs and installations. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Novomo 380 Mechanical Toolkit:** Required for repairs and construction. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. It all comes in three impact-resistant cases. Cost \$1,000. Weight 12 kg.

**Orica KL Detonator:** A cylindrical detonator (or blasting cap) used to ignite detcord or plastic explosive. Each small detonator is pushed into C-4 or into the end of detcord, and the attached firing line (100m long) is plugged into a Shot Exploder. Detonators do contain PETN or ASA (lead azide, lead styphnate and aluminium) and

so can explode themselves (and doing 2D6 damage) if treated very harshly. Cost \$50. Weight 1kg (With a 100m-long firing line).

**Reiner-Gama 200 Portable Diesel Generator:** A portable power unit can be invaluable in an environment without electricity. This 7000 watt generator can fit in the back of a four-wheel drive, it provides continuous electricity for 7 hours and includes a charging adaptor for most types of power cells. It runs on diesel, requiring 20 liters for a full tank and has an electric starter. Be warned that the generator is a diesel engine and makes a lot of noise. Cost \$4500. Weight 170kg(with full tank).

**Reiner-Gama 347 Portable Fusion Generator:** This is a heavy-duty portable fusion generator, capable of recharging or powering equipment for up to six months of use. Cost \$500,000. Weight 170 kg.

**Siemens PowerLens:** A handheld digital mineral survey lens, which incorporates a magnifier, spectroscope and crystal recognition software. Cost \$300. Weight 0.1kg.

**Snap-Fix Griffin Bolter:** A bolt gun designed to ram rock bolts into the ground with ease. The electric motor charges a pneumatic reservoir which the gives the bolt gun its punch. \$200. Weight 2kg. Combat: Thrown Range, DM -2, 4D6, 1 shot.

**Stern CD3 Blasting Mat:** Used in conjunction with mining explosives, the mat is a 3m by 10m wire-cable mesh backed with industrial Kevlar. Once unrolled it is dragged into place over the rock structure to be blasted and pinned down with rock bolts. Cost \$2000. Weight 75kg.

**Tharsis A38 Hard Suit:** The hard vacc suit is the spacer's best friend, providing life support and protection when in space. The suit provides a breathable atmosphere and protection from the extremes of temperature, low pressure and radiation typically found in a hard vacuum (decreasing exposure by up to 40 rads/hr), for six hours. Hard suits are rigid and have segmented joints for freedom of movement, they can operate at high pressures which means wearers do not need to pre-breathe oxygen before use. Cost \$9,000. Weight 9 kg.

**Titanobel T31 Shot Exploder:** An electrical unit on a carry sling, used to send a current along a firing line to ignite a detonator. Up to six firing lines can be plugged into the unit at one time for a simultaneous blasting. Operated by twisting the charging handle; this discharges the unit's capacitor, that had been previously charged by the integral battery. Charging the capacitor takes 2 minutes. Cost \$2100. Weight 4 kg.

**Titanobel Detcord:** Long plastic tubes of an explosive, usually pentaerythritol tetranitrate (PETN). It has a wide variety of uses, including cutting pipes and trees, breaching doors, and so on. Miners feed detcord into pre-drilled holes in the rock face. When detonated the rock face is shattered.

**Yoshiko AD321 Floodlight:** Portable floodlight mounted on a telescopic pole. The pole ends in four legs than can be pegged into the ground. At the base of each light is a rechargeable power cell. The floodlight has power for 16 hours of continuous operation. Cost \$400. Weight 8kg.



Shot Exploder

# SECURITY

Item	Brand Leader	Cost	Wgt
<b>Advanced Jammer</b>	Novomo PLT-7000	20,000	3
<b>Binoculars</b>	Zenith CF Falcon Binoculars	300	1
<b>Bug</b>	iTek Bug 4	20	-
<b>Bug, Video</b>	iTek Bug 7	50	-
<b>Bug Unit</b>	Novomo Pro-Series EM Scanner	450	0.2
<b>Cable Tap</b>	iTek Line-Stop	50	
<b>Camera</b>	Sony Matrix DD1018 Digital Camera	500	1
<b>Card-Lock Decryptor</b>	IE 505 Military Security Kit	1,000	0.2
<b>Disguise Kit</b>	Bauspace Fashion 45	800	1
<b>Flashlight</b>	Norden LSG5 Flashlight	120	1
<b>Forensics Toolkit</b>	Luna 21 Forensics Toolkit	1,000	3
<b>Handcuffs</b>	Mo-Dyne Binders	60	0.25
<b>Infrared Motion Sensor</b>	Inferno IR Detector 67	50	0.25
<b>Jammer</b>	Novomo PLT-6320	1000	1
<b>Laser Ear</b>	CRM Pro-Security Sonic Unit	3000	3
<b>Locator Beacon</b>	Gulfstar PLB2 Personal Locator Beacon	100	--
<b>Lockpick Wallet</b>	Lockpick Wallet	100	neg
<b>Motion Tracker</b>	IE J34 Motion Tracker	1680	1
<b>Optic Probe</b>	iTEK Optics 88	100	0.5
<b>Remote Piloted Drone</b>	ASA RQ-456 Blizzard Aerial Drone	15,000	8
<b>Scrambler</b>	Toshiba Securacom	200	0.1
<b>Wirecutters</b>	Aldine Max-Shears	50	0.5

**Aldine Max-Shears:** Heavy-duty wire-cutting shears, a basic tool. Cost \$50. Weight 0.5kg.

**ASA RQ-456 Blizzard Aerial Drone:** A miniature robotic quad-copter drone with camera, microphone and thermal imager used by security companies to protect properties by overflying the area. It has a 2 hr endurance, a range of 1000m and moves 50m/turn. Operated from a dedicated portable control unit.

**Bauspace Fashion 45:** A case full of polycarbonate skin and hair grafts, contact lenses, and other gear (such as false teeth etc.) which can be used by anyone to transform their appearance into something totally different. Includes a variety of



living 'false faces' grown on collagen and shark-cartilage polysaccharides. These seem utterly real but can only be worn for 3-5 hours at a time before they begin to deform

**CRM Pro-Security Sonic Unit:** This rifle-like piece of gear can be pointed at a wall or pane of glass and it will pick up any conversations on the other side. Its range is line of sight. It comes with a table-top tripod that can be folded within-it for ease of mobility and a black acrylic case

**Gulfstar PLB2 Personal Locator Beacon:** A wrist-mounted emergency beacon with a range (once activated) of up to 10 km. The PLB uses a standard emergency frequency which can be tracked by any modern avionics system, or either a Gulfstar Hand Radio or a Novomo EM Scanner. The signal will last for 24 hours. Cost \$100. Weight negl.

**Inferno Electronics J34 Motion Tracker:** The Inferno Electronics J34 Motion Tracker is a hand-held unit with a simple shoulder-strap that uses discriminatory Doppler shift ultra-sound scanning to detect movement within a 100 degree cone ahead of the operator. Range varies, from 10-20m indoors to almost 600-800m in open country. They are useful tools, but subject to varied limitations, anything that moves can show up on the reading if not properly tuned out, extremely slow-moving objects may not show up at all, and of course any enemy listening in will probably detect the loud ultra-sound bursts being emitted from the J34. To operate a motion tracker, the referee makes an Average Comms roll on the player's behalf. With a success he can give the player a pretty accurate indication of what the scanner is picking up; if unsuccessful, then he should give the player false data. Player involvement can be increased by letting he or she roll *one* of the 2D6, with the referee rolling the other in secret. Cost: \$1680. Weight 1kg.

**Inferno IR Detector 67:** Portable unit that can be stuck to a wall or door. It sends a unique signal if tripped, to a bug detector or hand radio, or it can just give off an audible alarm. Can pick up motion through the door or wall if not too thick.

**IE 505 Military Security Kit:** This military/intelligence-only unit is able to access card-locks and re-route the data to try and fool the lock's onboard processor into believing that it is the correct card. The processor unit is attached to a 'trojan' card via a multi-wire cable and is all carried in a large fold-out wallet. It allows a person with Security skill to try and break through a card-lock. Custom-made de-cryptors put together by crime gangs are generally illegal. Cost \$1,000. Weight 200 kg.

**iTek Bug 4:** These tiny bugs have a range of 100m, and transmit for 24 hours

**iTek Bug 7:** With fisheye lens, these micro-cameras give a distorted 180 degree view as well as recording sound. They are often disguised as a button or part of furniture. They transmit out to 100m for 24 hours.

**iTek Line-Stop:** This unit transmits all information that it picks up from a fibre-optic cable within 2cm. It can transmit the signal out to 100m indefinitely.

**iTek Optics 88 Optic Probe:** Fiber-optic lens and cable attachment for cameras that can be pushed under doors, round corners etc. for surveillance purposes

**Lockpick Wallet:** An ad-hoc kit of tools designed to defeat manual door locks.

**Luna 21 Forensics Toolkit:** Required for investigating crime scenes and testing samples. This kit contains diagnostic sensors, hand tools, computer analysis programs and spare parts. Cost \$1,000. Weight 3 kg.

**Mo-Dyne Binders Handcuffs:** Steel handcuffs for holding prisoners in check.



Card-Lock Decryptor

**Norden LSGS Flashlight:** A waterproof and impact resistant flashlight, roughly 20 cm in length, with an endurance of 6 hours. A flashlight produces a wide cone of light up to 18 meters long with a radius of 6 meters at the end of the beam. Cost \$120. Weight 1kg.

**Novomo Pro-Series EM Scanner:** This device detects the electromagnetic emissions of technological devices, and can be used as a diagnostic tool when examining equipment (+1 DM to work out what's wrong with it) or when searching for hidden bugs or devices. The Comms skill can be used to sweep a room for bugs. Cost \$450. Weight 200g.

**Novomo PLT-6320:** The PLT-6320 is a hand-held radio jamming unit with a 100m range and will disrupt most radio signals within that range. It will also interfere with security motion sensors, jamming their frequencies. Weight 1kg. The Advanced Jammer (the Novomo PLT-7000) is available, with a 3km range. It is however, backpack sized.

**Sony Matrix DD1018 Digital Camera:** A hand-held digital camera capable of still photography as well as video. It is capable of low-light photography, and includes an in-built timer. The camera can take 300 still shots, or up to two hours of video. It can be plugged directly into any computer for the download of images and video. Cost \$500. Weight 1kg.

**Toshiba Securacom Scrambler:** Such a unit fits over any telephone or hand-held radio and scrambles the message before it relays it to another phone or radio. The receiver must also have a unit set to the same code. Not a brilliant coding system, but far better than none at all. Will stop the casual listener.

**Zenith CF Falcon Binoculars:** These high-tech binoculars feature low-light night-vision and a laser range-finder. Cost \$300. Weight 1kg.

# STARSHIP LOCKER

Item	Brand Leader	Cost	Wgt
<b>Atmospheric Re-entry Kit</b>	Tharsis M2 Ablative Canopy Orbital Re-entry (ACOR)	5000	100
<b>First Aid Kit</b>	Haruna Priority First Aid Kit	50	0.5
<b>Handheld Thruster</b>	Nortinghouse RS-5662 Thruster	300	2
<b>Hostile Environment Suit</b>	Tharsis H200 Hostile Environment Suit	18,000	12
<b>Pen</b>	Fisher AG7 Retractable Space-Pen	60	-
<b>Pressure Box</b>	Safestar Type 1 Bio-Box	450	2
<b>Rescue Bubble</b>	Kinako BB6 Basic Bubble	600	2
<b>Surface Mask</b>	Yoshiko GP Surface Mask	150	-
<b>Tether Point</b>	Advanced Motors Grab-Pad	100	0.5
<b>Thruster Unit, Standard</b>	Rockford Aerospace Advanced Thruster Unit	2000	5
<b>Thruster Unit, Long Range</b>	Bintang MMU-6 Thruster Pack	2000	30
<b>Umbilical, Locked</b>	Advanced Motors Unique Umbilical	1000	5
<b>Vacc Suit (Hard)</b>	Tharsis A38 Hard Suit	9000	9
<b>Vacc Suit (Mining)</b>	McConnell 720 Mining Suit	9650	9
<b>Vacc Suit (Soft)</b>	McConnell 456 Soft Suit	6000	12
<b>Zero-G Tool-Kit, Basic</b>	Reiner-Gama Orbital Tool Kit	250	2
<b>Zero-G Tool-Kit, Full</b>	Reiner-Gama Orbital Tool Kit	1000	12

**Advanced Motors Grab-Pad:** The grab pad is analogous to a climber's piton which protects him from a fall by anchoring him to the rock face. A short metre-long tether connects the spacer's belt to the grab pad, and this electro-adhesive pad adheres strongly to any metal surface, once activated, by means of passing a small current through two metal electrodes. It resembles a simple plate with rugged hand-grip. Electro-adhesive boots (known as 'mag boots') can be fitted to hard suits. Cost \$100. 0.5kg.

**Advanced Motors Unique Umbilical:** Although many spacers carry out EVA's using thruster packs, disconnected from the spacecraft, it is often safer to use a length of umbilical. Gone are the days of a loose air pipe trailing in space. Each umbilical is flexible pipe actually made up of 10m of ball and socket links encased in an outer soft covering. A ratchet on the spacer's belt enables him to apply

immediate tension to the links, locking him in place at his worksite. Up to 10 umbilicals can be connected together to create a single tether, 100m long. \$1000. 5kg.

**Bintang MMU-6 Thruster Pack:** Longer EVAs, or transfers between spacecraft, require the use of a thruster pack. Most starships have one in their locker. The pack is a 30kg fuel and motor unit worn on the back, with control arms swinging around for use at the front of a user. A joystick on the right arm and keypad on the left provide complete control. Once a desired orientation is achieved, the user can engage an automatic attitude-hold function that maintains the inertial position of the pack in flight. This frees both hands for work. The pack holds enough nitrogen gas fuel for approximately 6 hours of EVA, though this does not constitute continuous thrust. Delta-V is an impressive 25 metres per second. Cost is \$2000, 30kg.

**Fisher AG7 Retractable Space-Pen:** Unlike ordinary ballpoint pens Fisher Space Pens have a pressurized refill which allows them to write upside down and at any angle as well as in extreme conditions, from -34°C up to 121° C. Not only can it write in zero-G but it can even write over grease and under water.

**Haruna Priority First Aid Kit:** A small medical kit carried on a pouch that fits onto a rucksack or belt. It contains basic items, bandages, a pressure dressing, antibiotics, painkillers, eye-wash, antihistamines and plasters. It contains enough supplies for two wound treatments. Cost \$50. Weight 0.5kg

**Kinako BB6 Basic Bubble:** A large (2m diameter) pressurized and transparent plastic bubble. Piezoelectric layers in the bubble wall translate the user's movements into electricity to recharge the bubble's batteries and power its distress beacon, and a small oxygen tank both inflates the bubble and provides two person/hours of life support. There is no airlock. Rescue bubbles can sometimes be found on both space vessels and water craft as emergency lifeboats. Cost \$600. Weight 2 kg.

**McConnell 456 Soft Suit:** The soft vacc suit can be used in a vacuum, but to prevent ballooning, the air pressure must be reduced. This requires wearers to have spent some hours prior to the EVA pre-breathing oxygen. Because of this, hard suits are instead routinely used for work in a vacuum or near vacuum. Soft suits, meanwhile, are used on planetary surfaces for protection against low pressures, radiation (decreasing exposure by up to 20 rads/hr), cold temperatures and unbreathable atmospheres. The suit has a duration of six hours. Cost \$6,000. Weight 12 kg.

**Nortinghouse RS-5662 Thruster:** For short duration EVAs the handheld thruster is an invaluable and powerful tool, capable of providing the spacer with a delta-V of 2 metres per second. It uses high pressure cold gas (typically oxygen) as thrust, and being hand-held it is extremely versatile. The thruster costs \$300 and has a mass of 2kg. It is good for 15 minutes of flight.

**Reiner-Gama Orbital Tool Kit:** The zero-G tool kit is essential for any repairs or construction work under-taken in zero gravity. It must be carried to the worksite, though hard suits can have such kits fitted as an optional extra. Tools in this kit are tailored for zero-G work, drills have counter-rotating heads to prevent torque spinning the user around as a reaction. There are powered screwdrivers, wrenches, angle-grinders and saws, all battery-powered and benefitting from torque compensation. The basic portable kit costs Cr250 and masses 2kg. The full kit, based on-board a starship, costs \$1000 and weighs 12kg.

**Rockford Aerospace Advanced Thruster Unit (ATU):** A gas-fueled thruster pack gives the user the ability to maneuver in zero-gravity. A Vacc Suit skill check is required to use a thruster pack accurately. Thruster packs can only be used in zero-G environments and are only practical for journeys between spacecraft at Adjacent range. Cost \$2,000. Weight 5 kg.

**Safestar Type 1 Bio-Box:** Some things need protecting from vacuum or hostile atmosphere, biological samples, delicate materials and even small animals (perhaps even pet cats and dogs). The Bio-Box is similar in size to a pet carrier, but is pressurized and comes with its own 6 hour air-supply. Cost \$450. Weight 2 kg.

**Tharsis A38 Hard Suit:** The hard vacc suit is the spacer's best friend, providing life support and protection when in space. The suit provides a breathable atmosphere and protection from the extremes of temperature, low pressure and radiation typically found in a hard vacuum (decreasing exposure by up to 40 rads/hr), for six hours. Hard suits are rigid and have segmented joints for freedom of movement, they can operate at high pressures which means wearers do not need to pre-breathe oxygen before use. Cost \$9,000. Weight 9 kg.

**Tharsis H200 Hostile Environment Suit:** Hostile environment suits are designed for conditions where a normal vacc suit would be insufficient, such as deep underwater, worlds shrouded in toxic or corrosive gases, extremes of radiation or temperature, or other locales that offer serious physical danger as well as the lack of a breathable atmosphere. HEV suits provide all the life support offered by a normal vacc suit (for six hours) but are also impervious to flames, intense radiation such as that found at nuclear blast sites (decreasing radiation exposure by 90 rads/hr), and high pressure environments like undersea trenches. Cost \$18,000. Weight 40 kg.

**Tharsis M2 Ablative Canopy Orbital Re-entry**

**(ACOR):** A personal re-entry kit, allowing a vacc-suited individual to enter a planetary atmosphere, survive, and parachute to the ground. This is a dangerous undertaking, usually practiced by US Marines. ACOR packs are huge and cumbersome, but when out of the airlock the user can activate the system which inflates a 5m diameter ballute behind, with him in the centre. The guidance computer and thruster unit which lay along his chest is now swung up, extended and activated. Descent begins with the ablative foam within the ballute sloughing off with the intense heat and friction. At an altitude of 15,000' the main chute will deploy. Total time from orbit to touchdown is around 30-40 minutes.

**Yoshiko GP Surface Mask:** A common Off-World survival mask that can filter contaminants, taints, smoke and dust (atmosphere types 4, 7, and 9) but that can also compress breathed air to allow survival in a low pressure atmosphere (types 2 and 3). Useful in Very Thin or Tainted atmospheres. Cost \$150. Weight negligible.

**ACOR: Surviving Re-entry**

ACOR users must make a Average (+0) Vacc Suit roll to make a successful re-entry. Apply the following DMs:

- +1 if Computer skill known
- +1 if Navigation skill known
- +1 if Pilot skill known
- +1 World Size 1 or 2
- +2 Marine career
- 2 Atmosphere B
- 4 Atmosphere C

Failure indicates being way off course or landing in a dangerous situation. Success indicates a perfect landing. A natural roll of 'double 2' indicates death or serious injury.

# MCCONNELL 720 MINING SUIT

- Twin Flashlights
- Rad Counter
- Tough Semi-Hard Construction
- Climbing Harness

**Cost - \$4,650**

**Weight - 4 kg**

**Armour Rating - 6**

**Life Support - 6 hours**

**Rad Protection - 20 rads/hr**



# SURVIVAL KITS

**DeWitt Class 1 Foraging Pouch:** A waterproof pouch containing fish hooks and lines, a variety of small animal snares, and a basic sewing & repair kit for clothing and tents etc. Cost: \$35. Weight: negligible.

**DeWitt Class 2 Survival Pouch:** A waterproof zip bag that can be carried on a belt, perfect for hiking, camping, planetary expeditions, etc. It contains a survival knife, 6m of cord, wire saw, fish hooks, snares, sewing & repair kit, compass, fire-kit, water tabs. Weight 0.5kg, TL 5, Cost \$50.

**DeWitt Class 3 Survival Bag:** This portable survival bag contains basic kit for one person and includes: a personal locator beacon, compass, first aid kit, survival suit, tarpaulin, survival knife, head torch, 10 days of emergency rations, eight half-litre bottles of water, surface mask, cord, rope, fishhooks & line, four coloured flares, mess tin and fire-lighters, six cold-light sticks and sleeping bag. Cost \$150. Weight 6kg.

**DeWitt Class 4 One-Man Survival Bag:** A heavy one-man portable survival kit, with all of the essential equipment needed to sustain one person in the wilderness for 30 days and beyond. Weight 20kg, TL 7, Cost \$1000. It contains:

- Poncho (rainproof with reversible sun-reflective inner)
- Survival Mask (Filter/Respirator)
- Water (8 half-litre bottles)
- Food (30 days of ready-cooked food pouches)
- Foraging Pouch (Fish Hooks/Snares/Sewing & Repair Kit)
- Metal Mess Tins, Fork and Spoon
- Folding Stove and 60 Solid Fuel Tablets
- Flares (4)
- Wire Saw
- Compass
- Survival Knife
- Compact Sleeping Bag
- Cord (6m long)
- First Aid Kit
- Head-torch with 40 hour battery and Solar Power charger
- Fire Kit (Matches, Flint Sparker, Tinder)
- Survival Suit with Heat Pump (30 days endurance)
- Folded Plastic Emergency Survival Bag

**DeWitt Class 5 Group Survival Bag:** A group rucksack suited for a wide range of terrains and climates, perfect as an escape bag for an aircraft or lifeboat. It is not designed to support a single person, it is packed with additional gear to aid in survival, navigation and rescue, and must be stowed alongside one-man survival



bags. The group survival bag has enough personal kit to support an additional three people in a wilderness environment. Weight 30kg, TL 7, Cost \$2000. It contains:

- Machete
- Tarpaulin
- Cord (6m long)
- Rope (50m long)
- Folding Grappling Hook
- First Aid Kit
- Poncho (rainproof with reversible sun-reflective inner)
- Survival Masks (Filter/Respirator x 3)
- Water (8 half-litre bottles)
- Food (30 days of ready-cooked food pouches)
- Metal Mess Tins, Fork and Spoon (3)
- Folding Stove and 60 Solid Fuel Tablets
- Compass
- Solar Power charger
- Fire Kit (Matches, Flint Sparker, Tinder)
- Cold-Light Sticks (20)
- Inflatable Raft (for one man or 100kg)
- Survival Carbine Rifle (with 500 rounds and two 20-rd magazines)
- Rescue Radio/Transponder Beacon
- Folded Plastic Emergency Survival Bag (3)

Survival equipment helps the character stay physically alive and able to take action, even in the most unusual of environments. It includes camping and survival equipment.



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