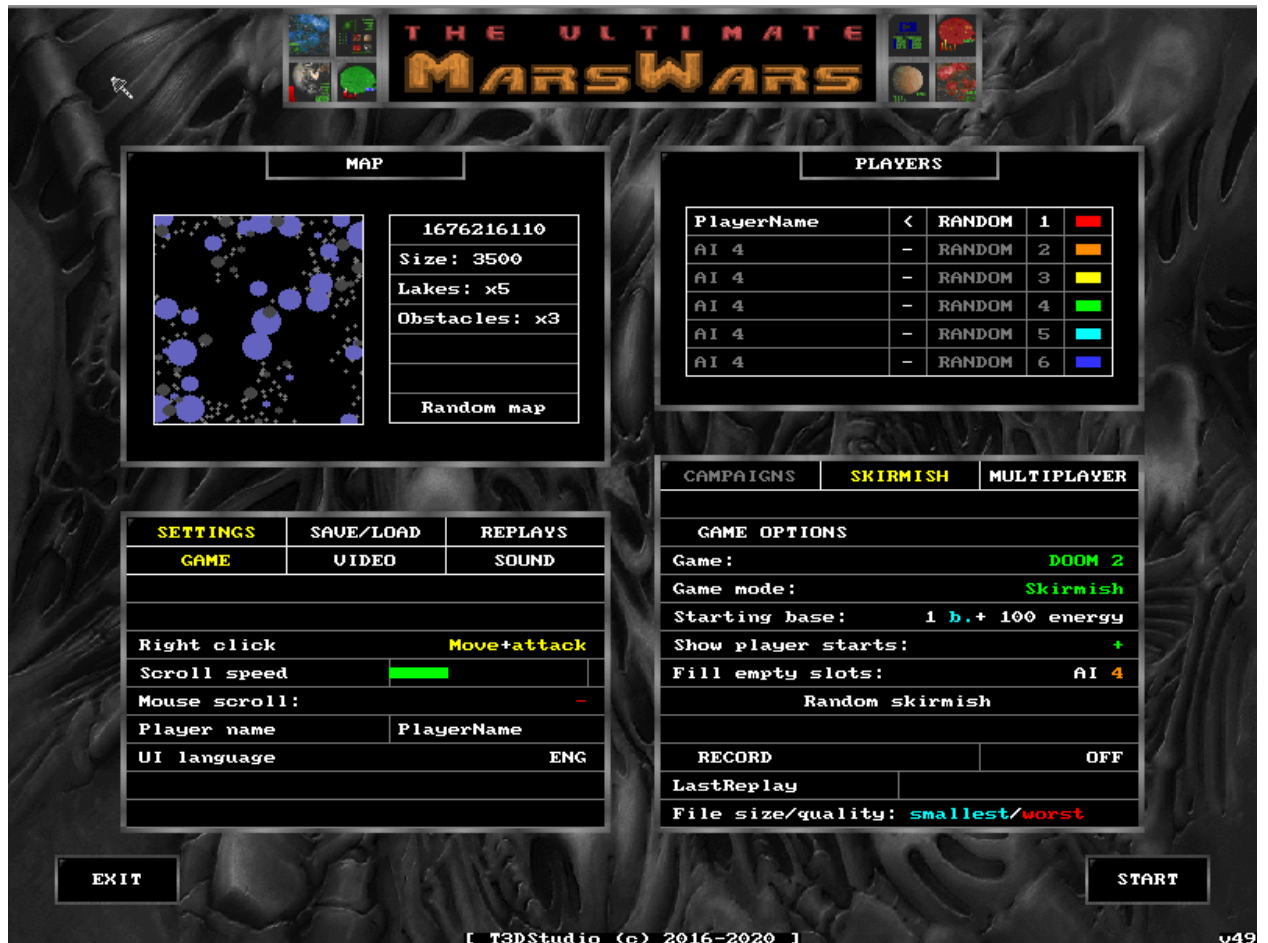


The Ultimate MarsWars



The Ultimate MarsWars – is a real-time strategy game set in the Doom 2 universe.

Main menu

Section MAP

Map settings:

Number (0-4294967295) – determines obstacles positions. Right click - generate random value.

Size – map size in pixels (value between 3000-7000 with step of 500).

Lakes – "lake's" obstacles part.

Obstacles – count of obstacles.







Random map – set random map settings.

Liquid type in lakes (water, slime, blood, mud or lava) and land texture depend on *Number*.

Lava and slime do not damage units.

Section PLAYERS

Players table.

Player name	Status	Side	Team	Color
PlayerName	<	RANDOM	1	
AI 4	-	RANDOM	2	
AI 4	-	RANDOM	3	
AI 4	-	RANDOM	4	
AI 4	-	RANDOM	5	
AI 4	-	RANDOM	6	

Fields:

Player name:

- If *Status* = «C» (computer player), left click here to switch AI level;
- If *Status* = «C» (computer player) or «-» (empty slot), right click here to move you on this line.

Status:

- «-» – Empty slot;
- «C» – Computer player.

For multiplayer game:

- «+» or «-» – Player «ready» status;
- «?» – Connection problem;
- «@» – Host player (server);
- «<» – You position.

Side – **Hell** or **UAC**.

Team – 1-6, players with equal team number will be allies.

Color – player color cannot be changed.

In multiplayer game only host-player (server) can change *Status*, *Team* or *AI level* of computer players on this table.

Section SETTINGS

Subsection «GAME»:

- RIGHT CLICK* – order type for units on right click;
- SCROLL SPEED* – camera move speed;
- MOUSE SCROLL* – turn off/on of mouse scroll;
- PLAYER NAME* – you name in game, cannot be changed when game started or multiplayer game created;
- INTERFACE LANGUAGE* – English or Russian.

Subsection «VIDEO»:

- WINDOW RESOLUTION*;
- WINDOWED* – full screen or windowed;

Subsection «SOUND» - music and game sounds volume.

Section SAVE/LOAD

Save and load game. You cannot save/load game in multiplayer mode.

Section REPLAYS

Game replays.

Section CAMPAIGNS

Missions list of campaign.

Section SCIRMISH

Subsections *GAME OPTIONS* and *RECORD*. You can turn off/on game record anytime.

Section MULTIPLAYER

Server/client settings and game chat.

Dedicated server

Dedicated server – special game console version, where it does not load any game resources and start working immediately as server.

To start *dedicated server*, run it with follow parameters:

MarsWars_ded.exe [X]

where X - UDP port (optional argument, default value - 10666).

After connect to dedicated server, you can manage it through chat using text commands.

-h or *-help* – show all exist chat-commands;

Game automatically start when all player ready (Field *Ready* = «+»).

Server reset game after 10 seconds after last player disconnect.

Game mechanics

Game control panel

Game minimap:

Minimap alarm indicators types:

- White pulse circle – units alarm;
- White pulse square – buildings alarm.

Line under minimap:

Energy section – **free energy level** / **maximum energy level**;

Army section – number of **all units** (units + buildings).

Tabs:

- *Buildings*;
- *Units*;
- *Upgrades/researches*;
- *Controls*.

Numbers on icons:

Green – total count of selected unit/buildings;

Yellow – count of productions;

Orange or **gray** - total count of this type of building/unit or research level;

Purple - number units of this type in selected transport(s);

White - time to production end;

Red – ability charges:

- **UAC Rocket Launcher Station**: **missiles count**;

- **Hell Monastery**: **Hell Powers's charges**;

- **Hell Altar**: **Invulnerability spheres**;

Aqua – reload time;



Icons hint format

Reverse teleport (B) [120] {3} x1 *
Units can teleport back to Hell Teleport.
Requirements: Hell Monastery, Ancient evil

Short description (HOTKEY) [PRODUCTION TIME] {energy} x upgrade max level

Description

Requirements: (if exists)

* it possible to produce this upgrade in many buildings at time.

Unit selection, orders and hotkeys

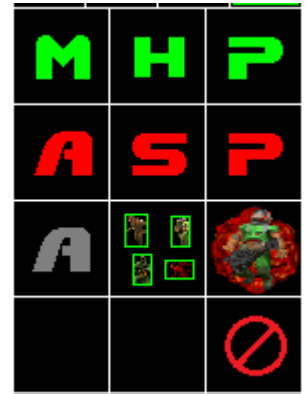
Use left mouse button to select unit and right - to command it.

You can add units to selection with «Shift» button. Double click on unit to select all of it type on screen.

To bind units to hotkey-group - select it and press «Ctrl»+«1..9». To add units to group – select it and press «Alt»+«1..9». Fast double press on group hotkey to move camera to this group. «F2» hotkey will select all battle units on map.

Orders:

- Right click – «Move» or «Move»+«Attack» (you can switch action in menu);
- «Move» (Q), «Stay» (W), «Patrol» (E), ignore enemies;
- «Move» (Q), «Stay» (W), «Patrol» (E), attack enemies;
- «Action» (Z) – do some ability (if unit have it).
- «Destroy» (Delete) – destroy selected units.
- «Cancel production» (C) – abort current production (work on *Units* or *Upgrades/researches* tabs);



To fast select some special buildings (UAC Radar, Tech Center, and Rocket Station, Hell Monastery, Teleport and Altar) click on it icon or press hot key.

For buildings, which can produce units, you can set rally-point with right click.

TAB – switching game control panel tabs;

Tab «Buildings»: **R T Y F G H V B N** – buildings;

Tab «Units»: **R T Y F G H V B N U I O** and **Ctrl + R T Y F G H V B N** – units;

Tab «Upgrades/researches»:

R T Y F G H V B N U I O J K L and **Ctrl + R T Y F G H V B N** – upgrades;

-«Alt» - draw colored rectangles and health bars above units;

- «Pause/Break» – pause/continue game in network game. Client can't cancel server's pause.

- «PrtScr» - make screenshot.

Build base, units and upgrades production

For build you must have at least 1 main building. Press on building icon on control panel to select which building type you need. It start draw circle around cursor. Radius of circle is radius of building. If circle is **red** - not enough space, if **blue** - too far from builder, if **green** - you can start build here. Right click to cancel selection. If icons are disabled, it can mean: there is no one main building, number of buildings of this type reached limit, not enough energy or not satisfied requirements. There is cooldown for 2 seconds between starting build any building.

Unit's icons enabled when there is at least one **Hell Gate** or **UAC Military unit**, army size less than limit, number of this unit less than maximum, enough energy and requirements are satisfied. When you click on unit icon while no one **Hell Gate/UAC Military unit** is selected - order to start produce unit will send to any idle building. If any **HG/MU** is selected - order will send to him. One building can produce only one unit at one time.

Upgrades icons enabled when there at least one **Hell Pools** or **UAC Weapon Factory**, enough energy, upgrade research level less than maximum and requirements are satisfied. Most upgrade can be researched in one building at time.

Moving camera

To move camera, use arrows buttons on keyboard or middle mouse button. Also, you can move camera with cursor - move it to screen border (this feature must be turn on in **SETTINGS** section in menu). Change camera scroll speed in **SETTINGS** section in menu.

Hot keys

Resources and army limit

There is no gold/wood/minerals/etc. like in other RTS games. There is energy level that means how many units produce/build buildings/research upgrades at one time you can.

Maximum unit count (all units + all buildings!) for all players - 110.

Game settings

GAME OPTIONS	
Game:	DOOM 2
Game mode:	Skirmish
Starting base:	1 builder
Show player starts:	-
Fill empty slots:	AI 4
Random skirmish	

Game:

- **DOOM 2** – «DOOM 2» mode.

- **UDOOM** – «The Ultimate DOOM» mode; there is no additional buildings/units/upgrades and some difference in game balance.

Game mode:

Skirmish - default mode - you must destroy all enemy players;

Two bases - 3x3 – red+orange+yellow vs green+aqua+blue players.

Three bases - 2x2x2 – red+orange vs yellow+green vs aqua+blue players.

Invasion - all players in one team. You need survive for 20 waves of powerful monsters.

Capturing points - there is 6 points on map that needs to capture. Capturing process will be faster if you use many units for this. Point will heal units in it.

Assault – like invasion, but you must destroy enemy base in center of map.

Starting base: player resources on game start;

Show player starts: if “+” game show you players start positions on map.

Fill empty slots: if set, empty player slots will filled with AI players;

Random skirmish: set random map and random game settings.

Units and buildings

Base things for units and buildings

Detector - unit/building that can detect invisible units.

Unfinished buildings have less armor and take more damage. If maximum energy level = 0 - all buildings will explode. In non-campaign games, if player loss all their builders – all his units revealed on map.

Armor will decrease damage.

Every unit can be advanced. Advanced units have some ability or increased some parameters.

Advanced unit have white symbol on selection rectangle:



Invulnerable unit have white aura:



Unit-detector have this icon:

Units categories:

Mechanical:

- **buildings**;
- **mechs**;

Biological:

- **light**;
- **medium**;
- **massive**;

- *Ground*;

- *Air (soaring and fly)*;







HPS – hits per second.

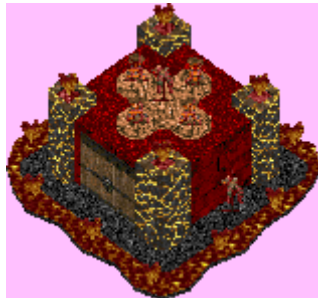



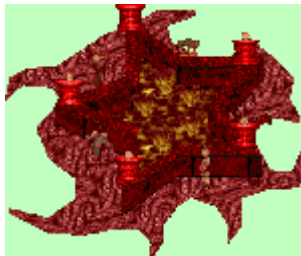

SDR – splash damage range.

BUILDINGS



HELL

Sprite	Icon / Hot key	Description														
	 R	Hell Keep <table><tr><td>Hits</td><td>3000</td></tr><tr><td>Size</td><td>66</td></tr><tr><td>Building time</td><td>83</td></tr><tr><td>Base sight radius</td><td>280</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>8</td></tr><tr><td>Energy provided</td><td>6</td></tr></table> Main building. Allows you to build base. Possible upgrades: <ul style="list-style-type: none">- Hell Keep teleportation – allow HK to teleport to any map place;- Decay Aura – HK start damage enemy units around;- Sight radius upgrade;- Free teleportation – allow HK teleporting on map obstacles;- Built-in Hell Symbol – increase provided energy level.	Hits	3000	Size	66	Building time	83	Base sight radius	280	Max count	Unlimited	Energy required	8	Energy provided	6
Hits	3000															
Size	66															
Building time	83															
Base sight radius	280															
Max count	Unlimited															
Energy required	8															
Energy provided	6															
	 T	Hell Gate <table><tr><td>Hits</td><td>1500</td></tr><tr><td>Size</td><td>60</td></tr><tr><td>Building time</td><td>41</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>4</td></tr></table> Produce units.	Hits	1500	Size	60	Building time	41	Sight radius	200	Max count	Unlimited	Energy required	4		
Hits	1500															
Size	60															
Building time	41															
Sight radius	200															
Max count	Unlimited															
Energy required	4															
	 Y	Hell Symbol <table><tr><td>Hits</td><td>200</td></tr><tr><td>Size</td><td>24</td></tr><tr><td>Building time</td><td>10</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>1</td></tr><tr><td>Energy provided</td><td>1</td></tr></table> Provide energy. Possible upgrades: <ul style="list-style-type: none">- Short distance teleportation;	Hits	200	Size	24	Building time	10	Sight radius	200	Max count	Unlimited	Energy required	1	Energy provided	1
Hits	200															
Size	24															
Building time	10															
Sight radius	200															
Max count	Unlimited															
Energy required	1															
Energy provided	1															

	 F	Hell Pool <table><tr><td>Hits</td><td>1000</td></tr><tr><td>Size</td><td>53</td></tr><tr><td>Building time</td><td>41</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>6</td></tr></table> Research upgrades.	Hits	1000	Size	53	Building time	41	Sight radius	200	Max count	Unlimited	Energy required	6
Hits	1000													
Size	53													
Building time	41													
Sight radius	200													
Max count	Unlimited													
Energy required	6													
	 G	Hell Tower <table><tr><td>Hits</td><td>700</td></tr><tr><td>Size</td><td>21</td></tr><tr><td>Building time</td><td>20</td></tr><tr><td>Base sight/attack radius</td><td>250</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>2</td></tr></table> Defense structure. Attacking all units with Revenant fireballs, but Revenants - with Cacodemon fireballs. Possible upgrades: - Range attack upgrade; - Attack/sight radius upgrade; - Short distance teleportation.	Hits	700	Size	21	Building time	20	Base sight/attack radius	250	Max count	Unlimited	Energy required	2
Hits	700													
Size	21													
Building time	20													
Base sight/attack radius	250													
Max count	Unlimited													
Energy required	2													
	 H	Hell Teleport <table><tr><td>Hits</td><td>500</td></tr><tr><td>Size</td><td>28</td></tr><tr><td>Building time</td><td>31</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Energy required</td><td>4</td></tr></table> Teleport units to any point: select Hell Teleport and do right click to set destination point; select units and do right click on Hell Teleport or it icon. Reload time after teleportation depend from unit power. Can teleport allies units. Possible upgrades: - Teleport upgrade – decrease reload time; - Reverse teleport - units can teleport back to Hell Teleport .	Hits	500	Size	28	Building time	31	Sight radius	200	Max count	1	Energy required	4
Hits	500													
Size	28													
Building time	31													
Sight radius	200													
Max count	1													
Energy required	4													

	 V	<h3>Hell Monastery</h3> <table><tr><td>Hits</td><td>1000</td></tr><tr><td>Size</td><td>65</td></tr><tr><td>Building time</td><td>100</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>10</td></tr><tr><td>Requirements</td><td><i>Hell Pool</i> building</td></tr></table> <p>Can advance units.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Hell Power – charges for units advancing; <p>There is 2 methods to make advance any unit:</p> <ol style="list-style-type: none">1) Select Hell Monastery and do right click on unit;2) Select unit and do right click to Hell Monastery building or it icon on control panel;	Hits	1000	Size	65	Building time	100	Sight radius	200	Max count	Unlimited	Energy required	10	Requirements	<i>Hell Pool</i> building
Hits	1000															
Size	65															
Building time	100															
Sight radius	200															
Max count	Unlimited															
Energy required	10															
Requirements	<i>Hell Pool</i> building															
	 B	<h3>Hell Totem</h3> <table><tr><td>Hits</td><td>600</td></tr><tr><td>Size</td><td>21</td></tr><tr><td>Building time</td><td>25</td></tr><tr><td>Base sight/attack radius</td><td>250</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>3</td></tr><tr><td>Requirements</td><td><i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade</td></tr></table> <p>Advanced defense structure. Attacking like ArchVile unit.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Range attack upgrade;- Attack/sight radius upgrade;- Short distance teleportation;- Invisibility.	Hits	600	Size	21	Building time	25	Base sight/attack radius	250	Max count	Unlimited	Energy required	3	Requirements	<i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade
Hits	600															
Size	21															
Building time	25															
Base sight/attack radius	250															
Max count	Unlimited															
Energy required	3															
Requirements	<i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade															
	 N	<h3>Hell Altar</h3> <table><tr><td>Hits</td><td>750</td></tr><tr><td>Size</td><td>50</td></tr><tr><td>Building time</td><td>31</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Energy required</td><td>4</td></tr><tr><td>Requirements</td><td><i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade</td></tr></table> <p>Cast Invulnerability on units.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Invulnerability- charges for ability.	Hits	750	Size	50	Building time	31	Sight radius	200	Max count	1	Energy required	4	Requirements	<i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade
Hits	750															
Size	50															
Building time	31															
Sight radius	200															
Max count	1															
Energy required	4															
Requirements	<i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade															

SPECIAL BUILDINGS

	<p>Hell Eye</p> <p>Base sight radius 250 Max count Unlimited Requirements <i>Lost Soul</i> unit <i>Hell Eye</i> upgrade</p> <p>Detector. Summoned by a Lost Soul. Live time - 2 minutes. Dies after single hit.</p> <p>Possible upgrades: - Hell Eye – increase sight radius; - Invisibility;</p>
	<p>Hell Military Unit</p> <p>Hits 1500 Size 70 Sight radius 200 Max count Unlimited Requirements advanced <i>Lost Soul</i> unit <i>UAC Military Unit</i> building</p> <p>Produce zombies and Hell units.</p>





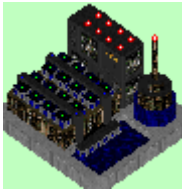
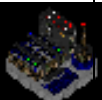
Possible upgrades for all Hell buildings:





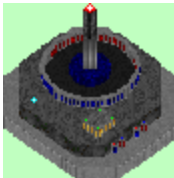

- **Buildings armor upgrade**;
- **Building restoration** – restoration for damaged buildings.





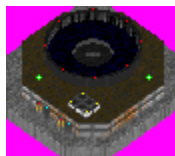

In **UDOOM** game mode **Building restoration** ability working without upgrade.



Hell can't build **Hell Totem** and **Hell Altar** in **UDOOM** mode.

UAC



Sprite	Icon / Hot key	Description
		UAC Command Center Hits 4000 Size 66 Building time 80 Base sight radius 280 Max count Unlimited Energy required 8 Energy provided 6 Main building. Allows you to build base.
	R	Possible upgrades: - Command Center flight - Command Center gains ability to fly (use «Action» order to fly up or land CC); - Sight radius upgrade ; this upgrade have effect on CC only when it on ground; - Command Center Turret – CC can attack when it flying (attacking like Major , 2 HPS, 250 range); - Free placement – CC can land to obstacles.
		UAC Military Unit Hits 1700 Size 66 Building time 40 Sight radius 200 Max count Unlimited Energy required 4 Produce units.
		UAC Generator Hits 400 Size 42 Building time 20 Sight radius 200 Max count Unlimited Energy required 2 Energy provided 2 Provide energy.

	 F	UAC Weapon Factory <table><tr><td>Hits</td><td>1700</td></tr><tr><td>Size</td><td>62</td></tr><tr><td>Building time</td><td>40</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>6</td></tr></table> Research upgrades.	Hits	1700	Size	62	Building time	40	Sight radius	200	Max count	Unlimited	Energy required	6		
Hits	1700															
Size	62															
Building time	40															
Sight radius	200															
Max count	Unlimited															
Energy required	6															
	 G	UAC Chaingun Turret <table><tr><td>Hits</td><td>400</td></tr><tr><td>Size</td><td>17</td></tr><tr><td>Building time</td><td>15</td></tr><tr><td>Base sight/attack radius</td><td>250</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>2</td></tr><tr><td>Attack</td><td>12 4 HPS</td></tr></table> Defense structure. Attacking like Mastermind unit. Possible upgrades: - Range attack upgrade; - Attack/sight radius upgrade; - Turrets armor;	Hits	400	Size	17	Building time	15	Base sight/attack radius	250	Max count	Unlimited	Energy required	2	Attack	12 4 HPS
Hits	400															
Size	17															
Building time	15															
Base sight/attack radius	250															
Max count	Unlimited															
Energy required	2															
Attack	12 4 HPS															
	 H	UAC Radar <table><tr><td>Hits</td><td>500</td></tr><tr><td>Size</td><td>35</td></tr><tr><td>Building time</td><td>31</td></tr><tr><td>Base sight radius</td><td>200</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Energy required</td><td>2</td></tr></table> Reveals map. To reveal any map area – select Radar and do right click on this area. Possible upgrades: - Detectors; - Radar upgrade - Increase radar scouting time and radius.	Hits	500	Size	35	Building time	31	Base sight radius	200	Max count	1	Energy required	2		
Hits	500															
Size	35															
Building time	31															
Base sight radius	200															
Max count	1															
Energy required	2															

	 V	UAC Tech Center <table><tr><td>Hits</td><td>1700</td></tr><tr><td>Size</td><td>62</td></tr><tr><td>Building time</td><td>94</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Energy required</td><td>10</td></tr><tr><td>Requirements</td><td><i>UAC Weapon Factory</i> building</td></tr></table> Can advance units. Possible upgrades: - Advanced armory - Tech Center will be able to upgrade units; - Fast rearmament - decrease Tech Center upgrade reloads time. To advance unit, select unit and do right click on Tech Center or it icon on control panel.	Hits	1700	Size	62	Building time	94	Sight radius	200	Max count	1	Energy required	10	Requirements	<i>UAC Weapon Factory</i> building
Hits	1700															
Size	62															
Building time	94															
Sight radius	200															
Max count	1															
Energy required	10															
Requirements	<i>UAC Weapon Factory</i> building															
	 B	UAC Plasma Turret <table><tr><td>Hits</td><td>400</td></tr><tr><td>Size</td><td>17</td></tr><tr><td>Building time</td><td>20</td></tr><tr><td>Base sight/attack radius</td><td>250</td></tr><tr><td>Max count</td><td>Unlimited</td></tr><tr><td>Energy required</td><td>2</td></tr><tr><td>Requirements</td><td><i>UAC Tech Center</i> building</td></tr></table> Defense structure. Attacking like Major unit. Possible upgrades: - Range attack upgrade; - Attack/sight radius upgrade; - Turrets armor;	Hits	400	Size	17	Building time	20	Base sight/attack radius	250	Max count	Unlimited	Energy required	2	Requirements	<i>UAC Tech Center</i> building
Hits	400															
Size	17															
Building time	20															
Base sight/attack radius	250															
Max count	Unlimited															
Energy required	2															
Requirements	<i>UAC Tech Center</i> building															
	 N	UAC Rocket Launcher Station <table><tr><td>Hits</td><td>500</td></tr><tr><td>Size</td><td>40</td></tr><tr><td>Building time</td><td>31</td></tr><tr><td>Sight radius</td><td>200</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Energy required</td><td>4</td></tr><tr><td>Requirements</td><td><i>UAC Tech Center</i> building</td></tr></table> Provide a missile strike. Missile strike requires " Missile strike " research. Missile have 250 damage and 150 SDR . Deal x0,25 damage to <u>light</u> units, x1,5 to <u>buildings</u> and x0,5 to <u>air</u> .	Hits	500	Size	40	Building time	31	Sight radius	200	Max count	1	Energy required	4	Requirements	<i>UAC Tech Center</i> building
Hits	500															
Size	40															
Building time	31															
Sight radius	200															
Max count	1															
Energy required	4															
Requirements	<i>UAC Tech Center</i> building															

		UAC Rocket Turret
		<p> Hits 500 Size 17 Building time 31 Base sight/attack radius 250 common 190 against <u>air</u> Max count Unlimited Energy required 4 Requirements <i>UAC Tech Center</i> building <i>Rocket turrets</i> upgrade </p> <p> Ctrl + B </p> <p> Defense structure. Attacking like Cyberdemon unit with 0,6 HPS. </p> <p> Possible upgrades: - Range attack upgrade; - Attack/sight radius upgrade; - Turrets armor; </p>

SPECIAL BUILDINGS

		Mine
		<p> Hits 1 Size 5 Base sight radius 100 Max count Unlimited Requirements advanced <i>Engineer</i> unit </p> <p> Set by advanced UAC Engineers. </p> <p> Possible upgrades: - Detectors; - Mine-sensor – mine can switch to sensor mode that provide 300 sight ranges and not explode under enemy unit (use «Action» order to switch mode). </p>

Possible upgrades for all UAC buildings:





- Buildings armor upgrade.







UAC can't build **UAC Rocket Launcher** and **UAC Rocket Turret** in **UDOOM** mode.





UNITS







HELL UNITS





All **Hell** units have «*pain state*» - state when it stun and cannot attack and move. «*Pain state*» happens every X hit from most attacks or more often from other.

Sprite	Icon / hot key	Description																		
	 R	Lost Soul <table><tr><td>Class</td><td><i>soaring, light</i></td></tr><tr><td>Hits</td><td>90</td></tr><tr><td>Production time</td><td>8</td></tr><tr><td>Energy required</td><td>1</td></tr><tr><td>Speed</td><td>23</td></tr><tr><td>Size</td><td>10</td></tr><tr><td>Sight/attack radius</td><td>250</td></tr><tr><td>Pain state</td><td>every 3 hit</td></tr><tr><td>Attack</td><td>10 1 HPS</td></tr></table> <p>Fast air melee unit. Deal x0,5 damage to <u>ground</u> units and x0,25 to <u>mechanical</u> units. Advanced Lost Soul can capture UAC infantry/UAC Military Unit and transform it to zombies/Hell Military Unit (UAC Military Unit must have < 2/3 hits).</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Melee attack upgrade;- Hell Eye – Lost Soul can transform to Hell Eye (use «Action» order);	Class	<i>soaring, light</i>	Hits	90	Production time	8	Energy required	1	Speed	23	Size	10	Sight/attack radius	250	Pain state	every 3 hit	Attack	10 1 HPS
Class	<i>soaring, light</i>																			
Hits	90																			
Production time	8																			
Energy required	1																			
Speed	23																			
Size	10																			
Sight/attack radius	250																			
Pain state	every 3 hit																			
Attack	10 1 HPS																			
	 T	Imp <table><tr><td>Class</td><td><i>ground, light</i></td></tr><tr><td>Hits</td><td>70</td></tr><tr><td>Production time</td><td>5</td></tr><tr><td>Energy required</td><td>1</td></tr><tr><td>Speed</td><td>9</td></tr><tr><td>Size</td><td>12</td></tr><tr><td>Sight/attack radius</td><td>250</td></tr><tr><td>Pain state</td><td>every 3 hit</td></tr><tr><td>Attack</td><td>12 1 HPS</td></tr></table> <p>Weak ground unit with ranged attack. Deal x0,5 damage to <u>air</u> and <u>mechanical</u> units. Attacking other Imps only with melee attack (damage same as ranged attack). Advanced Imp has 2 HPS.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Firepower – increase missiles speed.	Class	<i>ground, light</i>	Hits	70	Production time	5	Energy required	1	Speed	9	Size	12	Sight/attack radius	250	Pain state	every 3 hit	Attack	12 1 HPS
Class	<i>ground, light</i>																			
Hits	70																			
Production time	5																			
Energy required	1																			
Speed	9																			
Size	12																			
Sight/attack radius	250																			
Pain state	every 3 hit																			
Attack	12 1 HPS																			


	 Y	Demon <div> <div>Class</div> <div>ground, medium</div> </div> <div> <div>Hits</div> <div>150</div> </div> <div> <div>Production time</div> <div>8</div> </div> <div> <div>Energy required</div> <div>2</div> </div> <div> <div>Speed</div> <div>15</div> </div> <div> <div>Size</div> <div>14</div> </div> <div> <div>Sight/attack radius</div> <div>200</div> </div> <div> <div>Pain state</div> <div>every 8 hit</div> </div> <div> <div>Attack</div> <div>40 1 HPS</div> </div> <div> <div>Base armor</div> <div>2</div> </div> <p>Fast ground unit with melee attack. Cannot attack <u>air</u> units (except Lost Soul). Advanced Demon has invisibility.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none"> - Demon's anger – increase Demon's movement speed and attack.
	 F	Cacodemon <div> <div>Class</div> <div>air, medium</div> </div> <div> <div>Hits</div> <div>225</div> </div> <div> <div>Production time</div> <div>20</div> </div> <div> <div>Energy required</div> <div>2</div> </div> <div> <div>Speed</div> <div>9</div> </div> <div> <div>Size</div> <div>14</div> </div> <div> <div>Base sight/attack radius</div> <div>250</div> </div> <div> <div>Pain state</div> <div>every 6 hit</div> </div> <div> <div>Attack</div> <div>25 0,8 HPS</div> </div> <div> <div>Base armor</div> <div>2</div> </div> <p>Air unit with ranged attack. Deal x1,25 damage to <i>light</i> units, 0,75 to <i>air</i> and <i>massive</i> units, x0,5 to <i>mechanical</i> units. Attacking other Cacodemons only with melee attack (damage same as ranged attack). Advanced Cacodemon has 275 attack and sight ranges.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none"> - Firepower – increase missiles speed.
	 G	Baron of Hell / Hell Knight <div> <div>Class</div> <div>ground, medium</div> </div> <div> <div>Hits</div> <div>350</div> </div> <div> <div>Production time</div> <div>40</div> </div> <div> <div>Energy required</div> <div>4</div> </div> <div> <div>Speed</div> <div>9</div> </div> <div> <div>Size</div> <div>14</div> </div> <div> <div>Sight/attack radius</div> <div>250 common 190 against <u>air</u></div> </div> <div> <div>Pain state</div> <div>every 8 hit</div> </div> <div> <div>Attack</div> <div>50 0,8 HPS</div> </div> <div> <div>Base armor</div> <div>3</div> </div> <p>Heavy ground unit with ranged attack. Attacking other Barons/Knights only with melee attack (damage same as ranged attack). Deal x0,5</p>

		<p>damage to <u>light</u> units, x0,75 to <u>air</u> and <u>mechanical</u> units. Baron Of Hell (red skin) – it advanced Hell Knight (white skin). Baron Of Hell take x0,5 damage. In UDOOM mode this unit spawns as Baron Of Hell.</p> <p>Possible upgrades: - Firepower – increase missiles speed.</p>																								
	 H	<p>Cyberdemon</p> <table><tr><td>Class</td><td><i>ground, massive</i></td></tr><tr><td>Hits</td><td>2000</td></tr><tr><td>Production time</td><td>90</td></tr><tr><td>Energy required</td><td>8</td></tr><tr><td>Speed</td><td>10</td></tr><tr><td>Size</td><td>20</td></tr><tr><td>Base sight/attack radius</td><td>250 common 190 against <u>air</u></td></tr><tr><td>Pain state</td><td>every 15 hit 100</td></tr><tr><td>Attack</td><td>0,85 HPS 45 SDR</td></tr><tr><td>Base armor</td><td>3</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Requirements</td><td><i>Hell Monastery</i> building</td></tr></table> <p>Heavy ground unit with ranged attack. Deal x1,5 damage to <u>buildings</u> and x0,5 to <u>light</u> units. You can't product Cyberdemon when Mastermind production in progress. Don't take splash-damage from rockets and grenades. Advanced Cyberdemon has 275 attack (against <u>ground</u>) and sight ranges.</p>	Class	<i>ground, massive</i>	Hits	2000	Production time	90	Energy required	8	Speed	10	Size	20	Base sight/attack radius	250 common 190 against <u>air</u>	Pain state	every 15 hit 100	Attack	0,85 HPS 45 SDR	Base armor	3	Max count	1	Requirements	<i>Hell Monastery</i> building
Class	<i>ground, massive</i>																									
Hits	2000																									
Production time	90																									
Energy required	8																									
Speed	10																									
Size	20																									
Base sight/attack radius	250 common 190 against <u>air</u>																									
Pain state	every 15 hit 100																									
Attack	0,85 HPS 45 SDR																									
Base armor	3																									
Max count	1																									
Requirements	<i>Hell Monastery</i> building																									
	 V	<p>Spider Mastermind</p> <table><tr><td>Class</td><td><i>ground, massive</i></td></tr><tr><td>Hits</td><td>2000</td></tr><tr><td>Production time</td><td>90</td></tr><tr><td>Energy required</td><td>8</td></tr><tr><td>Speed</td><td>10</td></tr><tr><td>Size</td><td>35</td></tr><tr><td>Base sight/attack radius</td><td>250 common 190 against <u>air</u></td></tr><tr><td>Pain state</td><td>every 15 hit 12</td></tr><tr><td>Attack</td><td>9 HPS</td></tr><tr><td>Base armor</td><td>3</td></tr><tr><td>Max count</td><td>1</td></tr><tr><td>Requirements</td><td><i>Hell Monastery</i> building</td></tr></table> <p>Heavy ground unit with ranged attack. Deal x0,5 damage to <u>buildings</u>, x0,75 to <u>mechs</u> and x1,5 to <u>light</u> units. You can't product Mastermind when Cyberdemon production in progress. Don't take splash-damage from rockets and grenades. Advanced Mastermind has 275 attack (against <u>ground</u>) and sight ranges.</p>	Class	<i>ground, massive</i>	Hits	2000	Production time	90	Energy required	8	Speed	10	Size	35	Base sight/attack radius	250 common 190 against <u>air</u>	Pain state	every 15 hit 12	Attack	9 HPS	Base armor	3	Max count	1	Requirements	<i>Hell Monastery</i> building
Class	<i>ground, massive</i>																									
Hits	2000																									
Production time	90																									
Energy required	8																									
Speed	10																									
Size	35																									
Base sight/attack radius	250 common 190 against <u>air</u>																									
Pain state	every 15 hit 12																									
Attack	9 HPS																									
Base armor	3																									
Max count	1																									
Requirements	<i>Hell Monastery</i> building																									

	 B	<p>Pain Elemental</p> <table><tr><td>Class</td><td><i>air, medium</i></td></tr><tr><td>Hits</td><td>200</td></tr><tr><td>Production time</td><td>40</td></tr><tr><td>Energy required</td><td>6</td></tr><tr><td>Speed</td><td>9</td></tr><tr><td>Size</td><td>14</td></tr><tr><td>Sight radius</td><td>250</td></tr><tr><td>Attack radius</td><td>350</td></tr><tr><td>Pain state</td><td>every 3 hit</td></tr><tr><td>Attack</td><td>spawn Lost Soul 0.6 HPS</td></tr><tr><td>Requirements</td><td>Hell Monastery building</td></tr></table> <p>Flying unit. Spawn Lost Soul on attack or on «Action» order. Advanced Pain Elemental spawn advanced Lost Souls and spawn 3 Lost Souls after death.</p>	Class	<i>air, medium</i>	Hits	200	Production time	40	Energy required	6	Speed	9	Size	14	Sight radius	250	Attack radius	350	Pain state	every 3 hit	Attack	spawn Lost Soul 0.6 HPS	Requirements	Hell Monastery building		
Class	<i>air, medium</i>																									
Hits	200																									
Production time	40																									
Energy required	6																									
Speed	9																									
Size	14																									
Sight radius	250																									
Attack radius	350																									
Pain state	every 3 hit																									
Attack	spawn Lost Soul 0.6 HPS																									
Requirements	Hell Monastery building																									
	 N	<p>Revenant</p> <table><tr><td>Class</td><td><i>ground, light</i></td></tr><tr><td>Hits</td><td>200</td></tr><tr><td>Production time</td><td>40</td></tr><tr><td>Energy required</td><td>4</td></tr><tr><td>Speed</td><td>12</td></tr><tr><td>Size</td><td>13</td></tr><tr><td>Base sight/attack radius</td><td>250</td></tr><tr><td>Pain state</td><td>every 7 hit</td></tr><tr><td>Attack</td><td>30 0.8 HPS</td></tr><tr><td>Requirements</td><td>Hell Monastery building</td></tr></table> <p>Ground unit with ranged attack. Deal x1,5 damage to <u>mechs</u> and x0,75 to <u>air</u> and <u>buildings</u>. Attacking other Revenants only with melee attack (damage same as ranged attack). Advanced Revenant has 325 attack ranges.</p> <p>Possible upgrades: - Revenant missile upgrade - missiles become homing.</p>	Class	<i>ground, light</i>	Hits	200	Production time	40	Energy required	4	Speed	12	Size	13	Base sight/attack radius	250	Pain state	every 7 hit	Attack	30 0.8 HPS	Requirements	Hell Monastery building				
Class	<i>ground, light</i>																									
Hits	200																									
Production time	40																									
Energy required	4																									
Speed	12																									
Size	13																									
Base sight/attack radius	250																									
Pain state	every 7 hit																									
Attack	30 0.8 HPS																									
Requirements	Hell Monastery building																									
	 Ctrl + R	<p>Mancubus</p> <table><tr><td>Class</td><td><i>ground, massive</i></td></tr><tr><td>Hits</td><td>400</td></tr><tr><td>Production time</td><td>60</td></tr><tr><td>Energy required</td><td>6</td></tr><tr><td>Speed</td><td>6</td></tr><tr><td>Size</td><td>20</td></tr><tr><td>Sight radius</td><td>250</td></tr><tr><td>Attack radius</td><td>300 common 150 against <u>air</u></td></tr><tr><td>Pain state</td><td>every 4 hit</td></tr><tr><td>Attack</td><td>35x2 1.2 HPS</td></tr><tr><td>Base armor</td><td>3</td></tr><tr><td>Requirements</td><td>Hell Monastery building Ancient Evil upgrade</td></tr></table> <p>Strong ground unit with ranged attack. Deal x1,5 to <u>buildings</u>, x0,5 to <u>light</u> units and x0,75 to <u>air</u> and <u>mechs</u>. Cannot attack other Mancubus. Advanced Mancubus have «pain state» resist.</p>	Class	<i>ground, massive</i>	Hits	400	Production time	60	Energy required	6	Speed	6	Size	20	Sight radius	250	Attack radius	300 common 150 against <u>air</u>	Pain state	every 4 hit	Attack	35x2 1.2 HPS	Base armor	3	Requirements	Hell Monastery building Ancient Evil upgrade
Class	<i>ground, massive</i>																									
Hits	400																									
Production time	60																									
Energy required	6																									
Speed	6																									
Size	20																									
Sight radius	250																									
Attack radius	300 common 150 against <u>air</u>																									
Pain state	every 4 hit																									
Attack	35x2 1.2 HPS																									
Base armor	3																									
Requirements	Hell Monastery building Ancient Evil upgrade																									

	 Ctrl + T	<p>Arachnotron</p> <p>Class <i>ground, massive</i></p> <p>Hits 350</p> <p>Production time 60</p> <p>Energy required 6</p> <p>Speed 9</p> <p>Size 20</p> <p>Sight/attack radius 250</p> <p>Pain state every 4 hit</p> <p>Attack 15</p> <p>Base armor 4</p> <p>Requirements <i>Hell Monastery</i> building <i>Ancient Evil</i> upgrade</p> <p>Strong ground unit with ranged attack. Deal x0,5 damage to all <i>ground</i> units. Cannot attack other Arachnotrons. Advanced Arachnotron has 350 attack ranges against <i>air</i>.</p>
	 Ctrl + Y	<p>ArchVile</p> <p>Class <i>ground, medium</i></p> <p>Hits 400</p> <p>Production time 90</p> <p>Energy required 10</p> <p>Speed 15</p> <p>Size 15</p> <p>Sight radius 250</p> <p>Attack radius 400</p> <p>Pain state every 12 hit</p> <p>Attack 90</p> <p>Base armor 0.4 HPS 15 SDR</p> <p>Requirements <i>Hell Altar</i> building <i>Ancient Evil</i> upgrade</p> <p>Strong ground unit with ranged attack. Deal x0,5 damage to <i>buildings</i>. Advanced ArchVile can resurrect dead units.</p>

SPECIAL UNITS





	Ctrl + F G H V B N U	<p>Zombies</p> <p>Class <i>ground / air, light</i></p> <p>Size 12</p> <p>Pain state every 2 hit</p> <p>Requirements <i>Hell Military Unit</i> building</p> <p>UAC Infantry that corrupted by advanced Lost Soul. Zombies don't have UAC Infantry abilities (Engineer's mines, Medic's paralyze bullets).</p>
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Possible upgrades for all Hell units:

- **Ranged attack upgrade** (for units with ranged attacks);
- **Unit armor upgrade**;
- **Regeneration** – damaged units will slowly regenerate their health;
- **Pain threshold** - decrease "pain state" chance.

UAC UNITS

UAC units have no «pain state».

Sprite	Icon / hot key	Description																		
	 R	Engineer <table><tr><td>Class</td><td><i>ground, light</i></td></tr><tr><td>Hits</td><td>100</td></tr><tr><td>Production time</td><td>10</td></tr><tr><td>Energy required</td><td>1</td></tr><tr><td>Speed</td><td>13</td></tr><tr><td>Size</td><td>12</td></tr><tr><td>Sight/attack radius</td><td>220 common 165 against <u>air</u></td></tr><tr><td>Attack</td><td>6 1.7 HPS</td></tr><tr><td>Place in transport</td><td>1</td></tr></table> <p>Weak ground unit with ranged attack. Can repair own and allies damaged <u>mechanical</u> units. Deal x1,5 damage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25 to <u>mechanical</u> units. Advanced Engineer can paralyze <u>mechs</u> when attack it.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Advanced repair and healing - increase the efficiency of repairing;- Mines - Engineer can set Mines (use «Action» order).	Class	<i>ground, light</i>	Hits	100	Production time	10	Energy required	1	Speed	13	Size	12	Sight/attack radius	220 common 165 against <u>air</u>	Attack	6 1.7 HPS	Place in transport	1
Class	<i>ground, light</i>																			
Hits	100																			
Production time	10																			
Energy required	1																			
Speed	13																			
Size	12																			
Sight/attack radius	220 common 165 against <u>air</u>																			
Attack	6 1.7 HPS																			
Place in transport	1																			
	 T	Medic <table><tr><td>Class</td><td><i>ground, light</i></td></tr><tr><td>Hits</td><td>100</td></tr><tr><td>Production time</td><td>10</td></tr><tr><td>Energy required</td><td>1</td></tr><tr><td>Speed</td><td>13</td></tr><tr><td>Size</td><td>12</td></tr><tr><td>Sight/attack radius</td><td>220 common 165 against <u>air</u></td></tr><tr><td>Attack</td><td>6 1.5 HPS</td></tr><tr><td>Place in transport</td><td>1</td></tr></table> <p>Weak ground unit with ranged attack. Can repair own and allies damaged <u>biological</u> units. Deal x1,5 damage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25 to <u>mechanical</u> units. Advanced Medic can paralyze <u>biological</u> units.</p> <p>Possible upgrades:</p> <ul style="list-style-type: none">- Advanced repair and healing - increase the efficiency of healing.	Class	<i>ground, light</i>	Hits	100	Production time	10	Energy required	1	Speed	13	Size	12	Sight/attack radius	220 common 165 against <u>air</u>	Attack	6 1.5 HPS	Place in transport	1
Class	<i>ground, light</i>																			
Hits	100																			
Production time	10																			
Energy required	1																			
Speed	13																			
Size	12																			
Sight/attack radius	220 common 165 against <u>air</u>																			
Attack	6 1.5 HPS																			
Place in transport	1																			

		Ground unit with ranged attack. Deal x1,5 damage to <u>buildings</u> and x0,5 damage to <u>light</u> and <u>mechs</u> units. Cannot attack <u>air</u> units. Cannot attack units closer than 45 pixels. Advanced Artillery soldier have 275 attack and sight radius.																				
	 H	Major <table><tr><td>Class</td><td><i>ground/air, light</i></td></tr><tr><td>Hits</td><td>100</td></tr><tr><td>Production time</td><td>20</td></tr><tr><td>Energy required</td><td>4</td></tr><tr><td>Speed</td><td>Not advanced: 9 Advanced: 13</td></tr><tr><td>Size</td><td>12</td></tr><tr><td>Sight/attack radius</td><td>250</td></tr><tr><td>Attack</td><td>15 4 HPS</td></tr><tr><td>Place in transport</td><td>1</td></tr><tr><td>Requirements</td><td>UAC Weapon Factory building</td></tr></table> <p>Ground/air unit with ranged attack. Deal x1,5 damage to <u>mechs</u>, x0,5 <u>light</u> and <u>air</u> units, x0,75 to <u>buildings</u>. Advanced Major can fly.</p>	Class	<i>ground/air, light</i>	Hits	100	Production time	20	Energy required	4	Speed	Not advanced: 9 Advanced: 13	Size	12	Sight/attack radius	250	Attack	15 4 HPS	Place in transport	1	Requirements	UAC Weapon Factory building
Class	<i>ground/air, light</i>																					
Hits	100																					
Production time	20																					
Energy required	4																					
Speed	Not advanced: 9 Advanced: 13																					
Size	12																					
Sight/attack radius	250																					
Attack	15 4 HPS																					
Place in transport	1																					
Requirements	UAC Weapon Factory building																					
	 V	BFG Marine <table><tr><td>Class</td><td><i>ground, light</i></td></tr><tr><td>Hits</td><td>100</td></tr><tr><td>Production time</td><td>60</td></tr><tr><td>Energy required</td><td>5</td></tr><tr><td>Speed</td><td>10</td></tr><tr><td>Size</td><td>12</td></tr><tr><td>Sight/attack radius</td><td>250</td></tr><tr><td>Attack</td><td>125 125 SDR 0.4 HPS</td></tr><tr><td>Place in transport</td><td>1</td></tr><tr><td>Requirements</td><td>UAC Weapon Factory building</td></tr></table> <p>Ground unit with ranged attack. Deal x0,5 damage to <u>light</u>, <u>mechs</u> units and <u>buildings</u>. Advanced BFG Marine has 275 attack and sight ranges.</p>	Class	<i>ground, light</i>	Hits	100	Production time	60	Energy required	5	Speed	10	Size	12	Sight/attack radius	250	Attack	125 125 SDR 0.4 HPS	Place in transport	1	Requirements	UAC Weapon Factory building
Class	<i>ground, light</i>																					
Hits	100																					
Production time	60																					
Energy required	5																					
Speed	10																					
Size	12																					
Sight/attack radius	250																					
Attack	125 125 SDR 0.4 HPS																					
Place in transport	1																					
Requirements	UAC Weapon Factory building																					

Possible upgrades for all UAC Infantry:

- Infantry armor upgrade;
- Lightweight armor - increase infantry move speed



B

Air APC

Class	<i>mech, ground</i>
Hits	250
Production time	25
Energy required	3
Speed	22
Size	33
Sight/attack radius	250
Attack (upgrade)	6/12 2 HPS
Base transport place count	10
Base armor	3
Requirements	UAC Weapon Factory building

Fast air transport. Can transporting all ground UAC units. Advanced **Air APC** has 14 places.

Possible upgrades:

- **APC turret** – give to APC weapon.



N





Ground APC



Class	<i>mech, ground</i>
Hits	350
Production time	25
Energy required	3
Speed	15
Size	15
Sight/attack radius	250
Attack (after upgrade)	6/12 2 HPS
Base transport place count	4
Base armor	3
Places in transport	8
Requirements	UAC Weapon Factory building

Fast ground transport. Can transporting all ground **UAC infantry**. Advanced **Air APC** has 6 places. Marines can attack while they in APC.

Possible upgrades:

- **APC turret** – give to APC weapon.

	 Ctrl + R	<p>Terminator</p> <p> Class <i>mech, ground</i> Hits 350 Production time 60 Energy required 6 Speed 14 Size 16 Sight/attack radius 275 common Attack 6/12 8 HPS Base armor 3 Place in transport 3 </p> <p> Requirements UAC Tech Center building High technologies upgrade </p> <p>Heavy ground unit with ranged attack. Attacking with chain gun (not advanced - like Commando/advanced like Mastermind).</p>
	 Ctrl + T	<p>Tank</p> <p> Class <i>mech, ground</i> Hits 400 Production time 60 Energy required 8 Speed 10 Size 20 Sight/attack radius 250 Attack 45 SDR 0.6 HPS Base armor 3 Place in transport 7 </p> <p> Requirements UAC Tech Center building High technologies upgrade </p> <p>Heavy ground unit with ranged attack. Deal x1,5 damage to <u>buildings</u> and x0,5 damage to <u>light</u> units. Cannot attack <u>air</u> units. Cannot attack units closer than 45 pixels. Advanced Tank has 325 attack ranges.</p>

		Flyer Class <i>mech, air</i> Hits 350 Production time 60 Energy required 8 Speed 19 Size 18 Sight/attack radius 275 Attack 30 Attack 2 HPS Base armor 3 Requirements UAC Tech Center building High technologies upgrade Heavy ground unit with ranged attack. Deal x0,5 damage to <u>ground</u> units and <u>buildings</u> . Advanced Flyer can attack in moving.
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Possible upgrades for all UAC Mechs:











- **Mech armor upgrade;**
- **Advanced engines** - increase mechs move speed.













OTHER UNITS



Sprite	Description

UPGRADES









Hell













Icon / Hot key	Time Energy Level	Description	Requirements
 R	180 4 4	Range attack upgrade Increase ranged attacks damage.	
 T	180 4 4	Unit armor upgrade Increase units armor.	
 Y	120 4 4	Buildings armor upgrade Increase buildings armor.	
 F	60 2 3	Melee attack upgrade Increase melee attacks damage.	
 G	120 3 2	Regeneration Damaged units will slowly regenerate their health.	
 H	60 2 4	Pain threshold Decrease "pain state" chance.	
 V	120 3 3	Hell Eye Lost Soul ability & Hell Eye sight radius. In UDOOM game mod, last level of upgrade make Hell Eye invisible.	
 B	120 3 3	Tower range upgrade Increased range of defensive structures.	
 N	120 2 3	Teleport upgrade Decrease teleport cooldown.	
 U	180 3 1	Hell Keep teleportation Hell keep can teleport to any place.	





 I	120 3 2	Decay Aura Hell Keep will damage all enemies around. Also, this aura neutralize stun effects on own and allied units.	
 O	120 2 2	Hell Keep range upgrade Increased Hell Keep view/build range.	
 J	60 3 1	Demon`s anger Increased Demon`s movement and attack speed.	
 K	120 2 1	Firepower Increase missiles speed for Imp , Cacodemon and Baron of Hell/Hell Knight .	
 L	20 8 15	Hell power Allow Hell Monastery upgrade units.	Hell Monastery building
 Ctrl+R	180 10 1	Ancient evil New buildings, units and upgrades.	
 Ctrl+T	120 3 1	Reverse teleport Units can teleport back to Hell Teleport.	Hell Monastery building Ancient evil upgrade
 Ctrl+Y	120 2 1	Revenant missile upgrade Missiles become homing	
 Ctrl+F	120 2 1	Hell Totem and Eye invisibility	
 Ctrl+G	120 2 3	Building restoration Damaged buildings will slowly regenerate their health.	
 Ctrl+H	60 2 1	Free teleportation Hell Keep can teleport on obstacles.	
 Ctrl+V	30 1 15	Short distance teleportation Hell Symbols, Towers, Totems and Altars can teleport to short distance.	

 Ctrl+B	180 10 3	Invulnerability All hell units become invulnerable for 15 seconds.	Hell Altar building Ancient evil upgrade
 Ctrl+N	180 4 2	Built-in Hell Symbol Additional energy for Hell Keep.	

UAC

Icon / Hot key	Time Energy Level	Description	Requirements
 R	180 4 4	Range attack upgrade Increase ranged attacks damage.	
 T	120 4 5	Unit armor upgrade Increase units armor.	
 Y	180 4 4	Buildings armor upgrade Increase buildings armor.	
 F	60 3 3	Advanced repair and healing Increases the efficiency of repair/healing of Engineers and Medics.	
 G	120 3 2	Lightweight armor Increase infantry move speed.	
 H	120 2 2	APC turret Weapon for APCs.	
 V	120 3 1	Detector device Radar and mines becomes detectors.	
 B	120 3 3	Turrets range upgrade Increased attack range of defensive structures.	

 N	120 2 3	Radar upgrade Increase radar scouting time and radius.	
 U	180 3 1	Command Center engines Command Center gains ability to fly.	
 I	180 4 1	Command Center turret Flying Command Center will be able to attack	Command Center engines upgrade
 O	120 2 2	Command Center range Increased Command Center view/build range.	
 J	120 2 2	Mines Engineer ability.	
 K	60 2 1	Mine-sensor Mine ability.	Mines upgrade
 L	180 8 1	Advanced armory Tech Center will be able to upgrade own units.	UAC Tech Center building
 Ctrl+R	180 10 1	High technologies New buildings, units and upgrades.	
 Ctrl+T	180 10 8	Missile strike Missile for Rocket Launcher Station.	UAC Tech Center building High technologies upgrade
 Ctrl+Y	120 3 2	Advanced engines Increase mechs move speed.	
 Ctrl+F	180 4 4	Mech armor upgrade Increase mechs armor.	
 Ctrl+G	120 2 1	Fast rearming Decrease Tech Center upgrade reloads time.	

 Ctrl+H	60 T 2 1	Free placement Command center will be able to land on obstacles.	UAC Tech Center building High technologies upgrade
 Ctrl+V	120 T 3 2	Turrets armor Additional armor for turrets.	
 Ctrl+B	180 T 4 1	Rocket turrets Turrets can upgrade to Rocket turrets.	
 Ctrl+N	180 T 4 2	Built-in generator Additional energy for Command Center.	