

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.

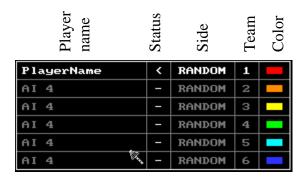
Obstacles - count of obstacles.

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.



Fields:

Player name:

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

Status:

 \ll - \gg - Empty slot;

 $\langle\langle \mathbf{C}\rangle\rangle$ – Computer player.

For multiplayer game:

«+» or «-» - Player «ready» status;

«?» – Connection problem;

«@» – Host player (server);

<<>> − You position.

Side – <mark>Hell</mark> or <mark>ŪAC</mark>.

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.

If field value = «Move+attack», then order on right click = «move, attacking all enemies on way» and right click + Ctrl key = «move, ignoring enemies».

If field value = «Move», then right click = «move, ignoring enemies» and right click + Ctrl key = «move, attacking all enemies on way».

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: 800*600 / 960*720 / 1024*768;

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 CMPAINGS

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 loading 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 $Ready = \ll + \gg$).

Server reset game after 10 seconds after last player disconnect.

Game mechanics



Game control panel

From top to down:

Game minimap:

Minimap alarm indicators types:

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

Line under minimap:

Energy section – free energy level and maximum energy level;

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

Tabs:

- Units and buildings;
- Upgrades/researches;
- Replay management.

Tab «replay management» active only when record playback.

Tab «units and buildings»:

- first 9 icons buildings;
- next 12 icons units;
- next 3 icons special units icons (for **UAC** count of **Mines**, for **Hell** count of **Zombies** and **Hell Eyes**);
- next 3 icons icons of some orders;
- last 2 buttons:
- -- «Menu»;
- -- «Pause» turn on/off game pause (available only in multiplayer game).

Numbers on tab of *«upgrades/researches»*: white number – time to end of nearest research; yellow number – total count of current researches in progress.

Numbers on icons of buildings/units:

(for buildings and units)

- on right down (orange or gray color): total count of this type of building/unit. If numbers have gray color count of these buildings/units reached limit;
- on right top (green color): total count of selected buildings/units of this type;
- on left top (yellow color): total count of this buildings/units type in production;
- on left top (white color): time to end of nearest unit production;
- on left down (purple color): number units of this type in selected transport; (on left down, for buildings only)
- UAC Radar, UAC Tech Center, UAC Rocket Launcher Station, Hell Teleport, Hell Altar: reload time;
- UAC Rocket Launcher Station: missiles count;
- Hell Monastery: Hell Powers's charges:
- Hell Altar: Invulnerability spheres;

(for upgrades)

- on right top: green color - research level; gray color - upgrade research level reached maximum; yellow - total count of this upgrade type in production.

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} xupgrade max level Description
Requirements: (if exits)

Unit selection and orders

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**». Fast double press on group hotkey to move camera to this group. Also, «**Ctrl**»+«**A**» combination will select all battle units on map.

Orders:

- Right click to any point move and attack all enemy on way;
- Right click with Ctrl just move;

You can switch these actions in **SETTINGS** section in main menu.

- Right click to enemy unit attack this enemy unit;
- Right click to ally unit follow it and attack all enemies on way.
- «Action» («**Ctrl**» + «**Space**» ho<u>tkeys</u> or button) do some ability (if unit have it).
- «Destroy» («**Delete**» hot key or button) destroy selected units.
- «Cancel» («**Space**» hot key or button) cancel order (for units stop here; for production buildings abort current production);

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.

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.

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

For **Hell** side, press on zombie icon to start zombie production in **Hell Military unit** and use «Action» order to change Zombie type.

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

TAB – switching game control panel tabs;

Tab «Units and buildings»:

QWEASDZXC - buildings;

RTYFGHVBNUIO-units;

M – start zombie production in Hell Military unit;

Tab «*Upgrades/researches*»:

QWEASDZXCRTYFGHVBNUIOJK-upgrades;

- «**Ctrl**» + «**Space**» («Action») do some ability (if unit have it).
- «Delete» («Destroy») destroy selected units.
- «**Space**» («Cancel») cancel order (for units stop here; for production buildings stop current production);
- -«Alt» draw colored rectangles and health bars above units;
- $-\langle\langle Ctrl\rangle\rangle + \langle\langle A\rangle\rangle$ select all battle units on map.
- «Pause/Break» pause/continue game in network game. Client can't cancel server's pause.
- «PrtScr» make screenshot.

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:

- **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 "\(\frac{1}{4}\)" game show you players start positions on map.

Fill empty slots: if set, empty player slots will filed 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

	Icon /		D 1.4
	Hot key		Description
		Hell Keep	
		Hits	3000
		Size	66
		Building time	75
		Base sight radius	280
***		Max count	Unlimited
	.th	Energy required	8
T The state of the		Energy provided	6
	_	Main building. Allows	s you to build base.
	Q	Possible upgrades:	ation – allow HK to teleport to any map
400		place;	ation – allow IIK to teleport to any map
			start damage enemy units around;
		- Sight radius upgrad	
			n – allow HK teleporting on map
		obstacles;	
		- Built-in Hell Symbol	 increase provided energy level.
		Hell Gate	
22 St 25 St 25 St		Hits	1500
	933 1	Size	60
	C2#	Building time	41
		Sight radius	200
	T X 7	Max count	Unlimited
	W	Energy required	4
		Produce units.	
		Hell Symbol	
		Hits	200
		Size	24
		Building time	10
	78. 1	Sight radius	200
		Max count	Unlimited
		Energy required	1
	E	Energy provided	1
		Provide energy.	
		Possible upgrades:	
		- Short distance telep	portation;

	Hell Pool	
A	Hits Size Building time Sight radius Max count Energy required Research upgrades.	1000 53 41 200 Unlimited 6
	Hell Tower	
S	but Revenants - with Possible upgrades: - Range attack upgrades: - Attack/sight radius: - Short distance telep	Unlimited 2 tacking all units with Revenant fireballs, Cacodemon fireballs. ade; supgrade;
D	click to set destination Hell Teleport or it depend from unit pow Possible upgrades: - Teleport upgrade -	500 28 25 200 1 4 point: select Hell Teleport and do right n point; select units and do right click on icon. Reload time after teleportation ver. Can teleport allies units. decrease reload time; units can teleport back to Hell Teleport .

	Hell Monastery	
Z	There is 2 methods to 1) Select Hell Monas	1000 65 100 200 Unlimited 10 Hell Pool building es for units advancing; make advance any unit: etery and do right click on unit; right click to Hell Monastery building tanel;
X	Hell Totem Hits Size Building time Base sight/attack ra Max count Energy required Requirements Advanced defense str Possible upgrades: - Range attack upgrades: - Short distance telegative.	Unlimited 3 Hell Monastery building Ancient Evil upgrade ucture. Attacking like ArchVile unit. ade; s upgrade;
C	Hell Altar Hits Size Building time Sight radius Max count Energy required Requirements Cast Invulnerability Possible upgrades: - Invulnerability- ch	

SPECIAL BUILDINGS

Hell Eye

Base sight radius 250

Max count Unlimited

Requirements

Unlimited

Lost Soul unit

Hell Eye upgrade

Detector. Summoned by a **Lost Soul**. Live time - 2 minutes. Dies after single hit.

Possible upgrades:

- **Hell Eye** increase sight radius;
- Invisibility;

Hell Military Unit



Hits 1500
Size 70
Sight radius 200
Max count Unlimited

Requirements advanced *Lost Soul* unit

Produce zombies and Hell units. To start zombie production – press

bottom on control panel or **M** hot key. To change **zombie** type – select **Hell Military Unit** and do «Action» order.

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.



Sprite	Icon / Hot key		Description
	Q	to fly (use «Action» of - Sight radius upgrawhen it on ground; - Command Center (attacking like Major	4000 66 93 280 Unlimited 8 6 s you to build base. flight - Command Center gains ability order to fly up or land CC); ade; this upgrade have effect on CC only Turret - CC can attack when it flying
	W	Hits Size Building time Sight radius Max count Energy required Produce units.	1700 66 40 200 Unlimited 4
	E	Hits Size Building time Sight radius Max count Energy required Energy provided Provide energy.	400 42 20 200 Unlimited 2 2

	UAC Weapon Factory
A	Hits 1700 Size 62 Building time 40 Sight radius 200 Max count Unlimited Energy required 6 Research upgrades.
	UAC Chaingun Turret
S	Hits 400 Size 17 Building time 15 Base sight/attack radius 250 Max count Unlimited Energy required 2 Attack 12 Attack 4 HPS Defense structure. Attacking like Mastermind unit. Possible upgrades: - Range attack upgrade; - Attack/sight radius upgrade; - Turrets armor; - Rocket turrets – can upgrade to Rocket turret (use «Action» order, required 2 energy points and UAC Tech Center).
D	Hits 500 Size 35 Building time 31 Base sight radius 200 Max count 1 Energy required 2 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.

		UAC Tech Center	
		Hits	1700
		Size	62
		Building time	94
		Sight radius	200
DESCRIPTION OF THE PARTY OF THE		Max count	1
		Energy required	10
		Requirements	UAC Weapon Factory building
		•	
	77	Can advance units.	
	Z	Possible upgrades:	
			- Tech Center will be able to upgrade
		units;	
		· ·	decrease Tech Center upgrade reloads
		time.	10
		To advance unit, se	lect unit and do right click on Tech
		Center or it icon on c	_
		UAC Plasma Turret	•
		Hits	400
		Size	17
		Building time	20
		Base sight/attack	
		radius	250
		Max count	Unlimited
	59:55.	Energy required	2
a Popular	4	Requirements	UAC Weapon Factory building
	21	1.	
	\mathbf{X}	Defense structure. Att	acking like Major unit.
		Possible upgrades:	
		- Range attack upgra	ade;
		- Attack/sight radius	upgrade;
		- Turrets armor;	
			n upgrade to Rocket turret (use
			red 2 energy points and UAC Tech
		Center).	
		UAC Rocket Launch	ner Station
		Hits	500
		Size	40
40000	1	Building time	31
		Sight radius	200
	V SE	Max count	1
		Energy required	4
	C	Requirements	UAC Tech Center building
			ke. Missile strike requires " Missile
			sile have 250 damage and 150 SDR.
		_	<u>light</u> units, x1,5 to <u>buildings</u> and x0,5 to
		<u>air</u> .	

SPECIAL BUILDINGS

	Mine	
		can switch to sensor mode that provide not explode under enemy unit (use
	Hits Size Building time Base sight/attack rad Max count Energy required Requirements	500 17 20 250 common 190 against <u>air</u> Unlimited 2 UAC Tech Center building Rocket turrets upgrade acking like Cyberdemon unit with 0,6

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 $\langle pain\ state \rangle$ - state when it stun and cannot attack and move. $\langle Pain\ state \rangle$ happens every X hit from most attacks or more often from other.

	Toom			
	Icon			
Sprite	'		Description	
_	hot		•	
A	key	7		
		Lost Soul		
		Class	soaring, light	
	_	Hits	90	
	R	Production time	8	
		Energy required	1	
		Speed	23	
		Size	10	
		Sight/attack radius	250	
		Pain state	every 3 hit	
			10	
		Attack	1 HPS	
A	APE.	Military Unit must have <pre>Possible upgrades: - Melee attack upgrade; - Hell Eye – Lost Soul car Imp</pre>	< 2/3 htts). n transform to Hell Eye (use «Action» order);	
N.				
		Class	ground, light	
	\mathbf{T}	Hits	70	
	•	Production time	5	
		Energy required	1	
		Speed	9	
		Size	12	
		Sight/attack radius	250	
		Pain state	every 3 hit	
		Attack	12	
		110001	1 HPS	
	Weak ground unit with ranged attack. Deal x0,5 damage to mechanical units. Attacking other Imps only with melee attack same as ranged attack). Advanced Imp has 2 HPS.			
		Possible upgrades: - Firepower – increase missiles speed.		

600 m		
	Demon	
CC	Class	around modium
		ground, medium 150
Y	Hits Production time	8
	Energy required	2
	Speed	15
	Size	14
	Sight/attack radius	200
	Pain state	every 8 hit
	Attack	40 1 HPS
	Base armor	2
	Fast ground unit with melee	e attack. Cannot attack <u>air</u> units (except Lost
	Soul). Advanced Demon has	
	Possible upgrades:	
		Demon's movement speed and attack.
X X	Cacodemon	·
Sand Sand		
	Class	air, medium
	Hits	225
F	Production time	20
	Energy required	2
	Speed	9
	Size	14
	Base sight/attack radius	250
	Pain state	every 6 hit
	1 am state	25
	Attack	0,8 HPS
	Base armor	2
		Deal x1,25 damage to <i>light</i> units, 0,75 to <i>air</i>
		echanical units. Attacking other Cacodemons
		lamage same as ranged attack). Advanced
	Cacodemon has 275 attack a	
	Possible upgrades:	
	- Firepower – increase miss:	iles speed.
	Baron of Hell / Hell Knight	i
	Class	ground, medium
	Hits	350
	Production time	40
	Energy required	4
G	Speed	9
	Size	14
	Ciab4/04411	250 common
	Sight/attack radius	190 against <i>air</i>
	Pain state	every 8 hit
	Attack	50
	Attach	0,8 HPS
	Base armor	3
	1	ged attack. Attacking other Barons/Knights
	only with melee attack (d	amage same as ranged attack). Deal x0,5

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**.

Possible upgrades:

- **Firepower** – increase missiles speed.





Η

Cyberdemon

Class ground, massive
Hits 2000
Production time 90

Energy required 8
Speed 10
Size 20

Base sight/attack radius

Pain state

250 common
190 against <u>air</u>
every 15 hit

100

Attack 0,85 HPS

45 SDR

Base armor 3 Max count 1

Requirements *Hell Monastery* building

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.





 \mathbf{V}

Spider Mastermind

Class ground, massive

Hits 2000
Production time 90
Energy required 8
Speed 10
Size 35

Base sight/attack radius

Pain state

250 common
190 against <u>air</u>
every 15 hit

Attack

12
9 HPS

Base armor
3
Max count
1

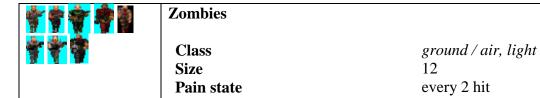
Requirements *Hell Monastery* building

Heavy ground unit with ranged attack. Deal x0,5 damage to *buildings*, x0,75 to *mechs* and x1,5 to *light* 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 *ground*) and sight ranges.

Class air, medium Hits 200 Production time 40 Energy required 6 Speed 9 Size 14 Sight radius 250 Attack radius 350 Pain state every 3 hit spawn Lost Soul Attack 0.6 HPS Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40 Energy required 4
B Hits 200 Production time 40 Energy required 6 Speed 9 Size 14 Sight radius 250 Attack radius 350 Pain state every 3 hit spawn Lost Soul 0.6 HPS Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40
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Size Sight radius
Sight radius 250 Attack radius 350 Pain state every 3 hit spawn Lost Soul 0.6 HPS Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40
Attack radius Pain state every 3 hit spawn Lost Soul 0.6 HPS Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40
Pain state every 3 hit spawn Lost Soul 0.6 HPS Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40
Attack Spawn Lost Soul 0.6 HPS Requirements Hell Monastery building 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. Revenant Class Ground, light Hits 200 Production time 40
Requirements 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. Revenant Class Ground, light Hits 200 Production time 40
Requirements Hell Monastery building 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. Revenant Class ground, light Hits 200 Production time 40
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. Revenant Class ground, light Hits 200 Production time 40
Elemental spawn advanced Lost Souls and spawn 3 Lost Souls after death. Revenant Class ground, light Hits 200 Production time 40
Revenant Class ground, light Hits 200 Production time 40
Class ground, light Hits 200 Production time 40
N Hits 200 Production time 40
N Hits 200 Production time 40
N Hits 200 Production time 40
N Production time 40
Speed 12
Size 13
Base sight/attack radius 250
Pain state every 7 hit
30
Attack 0.8 HPS
Requirements Hell Monastery building
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.
Possible upgrades:
- Revenant missile upgrade - missiles become homing.
Mancubus Mancubus
Wancubus
Class ground, massive
Class ground, massive Hits 400
1 Toutetion time 00
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
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.

		1	
A STATE OF THE PARTY OF THE PAR	A A	Arachnotron	
	7 - 3		
		Class	ground, massive
	I	Hits	350
	1	Production time	60
		Energy required	6
		Speed	9
		Size	20
		Sight/attack radius	250
		Pain state	every 4 hit
		A 440 ole	15
		Attack	4 HPS
		Base armor	4
			Hell Monastery building
		Requirements	Ancient Evil upgrade
		Strong ground unit with ra	anged attack. Deal x0,5 damage to all ground units.
			chnotrons. Advanced Arachnotron has 350 attack
		ranges against <u>air</u> .	and the state of t
		Tunges agamst <u>eur</u> .	
		ArchVile	
*	5		ground, medium
*	5	ArchVile	ground, medium 400
*	O	ArchVile Class Hits	· ·
*	0	ArchVile Class Hits Production time	400 90
	0	ArchVile Class Hits Production time Energy required	400 90 10
**	O	ArchVile Class Hits Production time Energy required Speed	400 90 10 15
**	O	ArchVile Class Hits Production time Energy required Speed Size	400 90 10 15 15
	0	ArchVile Class Hits Production time Energy required Speed Size Sight radius	400 90 10 15 15 250
**	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius	400 90 10 15 15 250 400
	0	ArchVile Class Hits Production time Energy required Speed Size Sight radius	400 90 10 15 15 250 400 every 12 hit
	0	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state	400 90 10 15 15 250 400 every 12 hit
	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius	400 90 10 15 15 250 400 every 12 hit 90 0.4 HPS
	0	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state Attack	400 90 10 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR
	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state	400 90 10 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR 3
	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state Attack	400 90 10 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR 3 <i>Hell Altar</i> building
	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state Attack Base armor	400 90 10 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR 3
	O	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state Attack Base armor Requirements	400 90 10 15 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR 3 Hell Altar building Ancient Evil upgrade
	0	ArchVile Class Hits Production time Energy required Speed Size Sight radius Attack radius Pain state Attack Base armor Requirements	400 90 10 15 15 15 250 400 every 12 hit 90 0.4 HPS 15 SDR 3 Hell Altar building Ancient Evil upgrade ranged attack. Deal x0,5 damage to buildings.

SPECIAL UNITS



UAC Infantry that corrupted by advanced **Lost Soul**. **Zombies** don't have **UAC Infantry** abilities (**Engineer's mines**, **Medic's** paralyze bullets).

- 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 ui	nits have	no <i>«pain state</i> ».	
g .,	Icon	Description	
Sprite	hot		
	key		
*		Engineer	
		Class	ground, light
		Hits	100
	R	Production time	8
		Energy required	1
		Speed	13
		Size	12
			220 common
		Sight/attack radius	165 against <i>air</i>
			6
		Attack	1.7 HPS
		Place in transport	1
		_	ged attack. Can repair own and allies damaged
		,	damage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25
			ed Engineer can paralyze <u>mechs</u> when attack it.
		Possible upgrades:	
			ing - increase the efficiency of repairing;
		- Mines - Engineer can set M	
4 .		Medic Medic	intes (use w tetron// order).
gr.			
		Class	ground, light
	T	Hits	100
	1	Production time	8
		Energy required	1
		Speed	13
		Size	12
		Sight/attack radius	220 common
		Signivattack radius	165 against <u>air</u>
		Attack	6
		Attack	1.5 HPS
		Place in transport	1
		Weak ground unit with rang	ged attack. Can repair own and allies damaged
		biological units. Deal x1,5 da	amage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25 to
		mechanical units. Advanced	Medic can paralyze biological units.
		Possible upgrades:	
		10	ing - increase the efficiency of healing.
		_	- •

Serg Cla Hits	cant		
TT:4	SS	ground, light	
Total	S	100	
Y Pro	duction time	10	
Ene	rgy required	2	
Spe	ed	13	
Size	,	12	
Sig	nt/attack radius	240 common	
Sign	it/attack radius	180 against <u>air</u>	
		Not advanced:	Advanced:
		- min: 9	- min: 12
Atta	ack	- max: 28	
		max SDR: 30	
			n SDR: 10
Plac	ce in transport	1	
Grov	nd unit with ranged a	ttack. Deal x0,5 d	lamage to <u>fly</u> , <u>light</u> and
			amage and splash-range
			geant deal more damage
			ll units into «pain state»
more	often than other units a	ttack.	
Com	mando		
Cla	22	ground, light	
Hits		100	
	duction time	15	
	rgy required	2	
Spe		_ 11	
Size		12	
		250 common	
Sigi	nt/attack radius	220 against <i>air</i>	
		6	
Atta	ack	8 HPS	
Place	ce in transport	1	
<u>mass</u>	<u>ive</u> and x0,25 to <u>med</u>		age to <u>light</u> units, x0,5 to vanced Commando has
	ibility.		
•	lery soldier		
Cla		ground, light	
G Hits		100	
110	duction time	30	
	rgy required	4	
Spe		10	
Size		12	
Bas	e sight/attack radius	250	
Atta	ack	50	
		0.6 HPS	
	ce in transport	1	4 1 11 11
Req	uirements	UAC Weapon F	actory building

		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.	
	1	Major	
		Class	ground/air, light
		Hits	100
	H	Production time	20
		Energy required	4
		_	Not advanced: 9
		Speed	Advanced: 13
		Size	12
		Sight/attack radius	250
		Attack	15
		Attack	4 HPS
		Place in transport	1
		Requirements	UAC Weapon Factory building
*		BFG Marine	o <u>buildings</u> . Advanced Major can fly.
	3.5	Class	ground, light
		Hits	100
	\mathbf{V}	Production time	60
		Energy required	5
		Speed	10
		Size	12
		Sight/attack radius	250
			125
		Attack	125 SDR
			0.4 HPS
		Place in transport	1
		Requirements	UAC Weapon Factory building
			attack. Deal x0,5 damage to <i>light</i> , <i>mechs</i> units BFG Marine has 275 attack and sight ranges.

- Possible upgrades for all UAC Infantry:
 Infantry armor upgrade;
 Lightweight armor increase infantry move speed

	·	Air APC	
1480		Class	mech, ground
•		Hits	250
	В	Production time	25
		Energy required	3
		Speed Speed	22
		Size	33
		Sight/attack radius	250
		Signivattack radius	6/12
		Attack (upgrade)	
			2 HPS
		Base transport place count	10
		Base armor	3
		Requirements	UAC Weapon Factory building
		1 -	rting all ground UAC units. Advanced Air
		APC has 14 places.	
		Possible upgrades:	
		- APC turret – give to APC w	eapon.
		Ground APC	
		Class	mech, ground
		Hits	350
	N	Production time	25
		Energy required	3
		Speed	15
		Size	15
		Sight/attack radius	250
		Signifattack radius	6/12
		Attack (after upgrade)	2 HPS
		Rose transport place count	4
		Base transport place count	3
		Base armor	
		Places in transport	8
		Requirements	UAC Weapon Factory building
			1 TIAC TOP A
		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 w	reapon.
	i	I .	

	Terminator	
	Class	mech, ground
	Hits	350
0	Production time	60
	Energy required	6
	Speed	14
	Size	16
	Sight/attack radius	275 common
		6/12
	Attack	8 HPS
	Base armor	3
	Place in transport	3
		UAC Tech Center building
	Requirements	High technologies upgrade
		riigh teemiologies apgrade
	Tank	
	Class	mech, ground
T T	Hits	400
U	Production time	60
	Energy required	8
	Speed	10
	Size	20
ı I	Sight/attack radius	250
	Signitatiack radius	250
		45 SDR
	Attack	45 SDR 0.6 HPS
	Attack Base armor	45 SDR 0.6 HPS 3
	Attack	45 SDR 0.6 HPS 3 7
	Attack Base armor	45 SDR 0.6 HPS 3 7 UAC Tech Center building
	Attack Base armor Place in transport	45 SDR 0.6 HPS 3 7

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

- Possible upgrades for all UAC Mechs:
 Mech armor upgrade;
 Advanced engines increase <u>mechs</u> move speed.

OTHER UNITS

Sprite	Description

UPGRADES



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

		Decay Aura	
T	120 3 2	Hell Keep will damage all enemies around. Also, this aura neutralize stun effects on own and allied units. Decay Aura deal more damage to <u>mechanical</u> units.	
Y	120 2 2	Hell Keep range upgrade Increased Hell Keep view/build range.	
F	60 3 1	Demon's anger Increased Demon's movement and attack speed.	
G	120 2 1	Firepower Increase missiles speed for Imp, Cacodemon and Baron of Hell/Hell Knight.	
S H	20 8 15	Hell power Allow Hell Monastery upgrade units.	II all Managtany huilding
V	180 10 1	Ancient evil New buildings, units and upgrades.	Hell Monastery building
В	120 3 1	Reverse teleport Units can teleport back to Hell Teleport.	
N	120 2 1	Revenant missile upgrade Missiles become homing	
U	120 2 1	Hell Totem and Eye invisibility	Hell Monastery building Ancient evil upgrade
I	120 2 3	Building restoration Damaged buildings will slowly regenerate their health.	
O	60 2 1	Free teleportation Hell Keep can teleport on obstacles.	

J	30 1 15	Short distance teleportation Hell Symbols, Towers, Totems and Altars can teleport to short distance.	
K	180 10 3	Invulnerability All hell units become invulnerable for 15 seconds.	Hell Altar building
L	180 4 4	Built-in Hell Symbol Additional energy for Hell Keep.	Ancient evil upgrade



Icon / Hot key	Time Energy Level	Description	Requirements
Q	180 4 4	Range attack upgrade Increase ranged attacks damage.	
W	120 4 5	Unit armor upgrade Increase units armor.	
E	180 4 4	Buildings armor upgrade Increase buildings armor.	
A	60 3 3	Advanced repair and healing Increases the efficiency of repair/healing of Engineers and Medics.	
S	120 3 2	Lightweight armor Increase infantry move speed.	
D	120 2 2	APC turret Weapon for APCs.	
Z	120 3 1	Detector device Radar and mines becomes detectors.	

) <u> </u>	120	Turrets range upgrade	
X	3 3	Increased attack range of defensive structures.	
	120	Radar upgrade	
C	3	Increase radar scouting time and radius.	
e E e	180	Command Center engines	
R	3	Command Center gains ability to fly.	
A.S.C.	180	Command Center turret	
T	4	Flying Command Center will be able to attack	Command Center engines upgrade
	120	Command Center range	
Y	2 2	Increased Command Center view/build range.	
10 0	120	Mines	
F	2 2	Engineer ability.	
	60	Mine-sensor	
G	60 2 1	Mine ability.	Mines upgrade
<u>≥</u> &	180	Advanced armory	
H	8 1	Tech Center will be able to upgrade own units.	UAC Tech Center building
چارچ	180	High technologies	OAC Tech Center bunding
V	8 1	New buildings, units and upgrades.	
	180	Missile strike	
В	10 8	Missile for Rocket Launcher Station.	
4-2	120	Advanced engines	HAC Took Contact 1 111
N	3 2	Increase mechs move speed.	UAC Tech Center building High technologies upgrade
	180	Mech armor upgrade	
U	4 4	Increase mechs armor.	

Î	120 2 1	Fast rearming Decrease Tech Center upgrade reloads time.	
O	60 2 1	Free placement Command center will be able to land on obstacles.	
J	120 3 2	Turrets armor Additional armor for turrets.	UAC Tech Center building
K	180 4 1	Rocket turrets Turrets can upgrade to Rocket turrets.	High technologies upgrade
L	180 4 2	Built-in generator Additional energy for Command Center.	