

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.

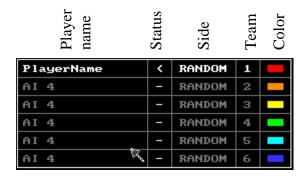
Obstacles - count of obstacles.

Random map – set random map settings.

Liquid type in lakes (water, slime, blood, mud or lava) and land texture depend on *Number*. Liquids 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 -» – Empty slot;

 $\langle C \rangle$ – Computer player.

For multiplayer game:

«+» or «-» - Player «ready» status;

«?» – Connection problem;

«@» − Host player (server);

«<» – You position.

Side - Hell or UAC.

Team – team number (1-6), players with same team number will be allies.

Color – player's color. Color cannot be changed.

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

Section SETTINGS

Subsection «GAME»:

RIGHT CLICK – right click order type for units;

SCROLL SPEED – camera move speed;

MOUSE SCROLL – turn off/on mouse scroll;

PLAYER NAME – you name in game. Name cannot be changed when game started or multiplayer game created;

INTERFACE LANGUAGE - English or Russian.

Subsection «VIDEO»:

WINDOW RESOLUTION;

WINDOWED – full screen or windowed mode;

Subsection «SOUND» - music and game sounds volume.

Section SAVE/LOAD

Save and load game. You cannot save/load game while multiplayer mode is on.

Section REPLAYS

Game replays.

Section CAMPAINGS

Missions list of campaign. Not available yet.

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 version w/o GUI, that 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 connection to dedicated server, you can manage it using special chat commands.

Use -h or -help to see all available commands.

Game automatically start when all players are ready (Field $Ready = \ll + \gg$).

Server reset game after last player disconnect. Player's timeout time – 60 seconds.

Game mechanics

Game control panel

Game minimap:

Minimap alarm indicators types:

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

Sections under minimap:

```
Energy subsection – free energy level / maximum energy level;
Army subsection – total count of all units (units + buildings).
```

Control 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;

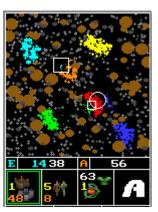
Purple – number units of this type in selected transport(s);

White – time to production end;

Red – ability charges:

- UAC Rocket Launcher Station: missiles count;
- Hell Monastery: Hell Powers
- 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 required} xupgrade max level Description

Requirements: (if exits)

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.

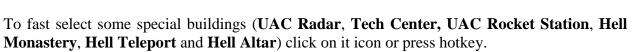
You can add units to selection with **Shift** button. Double click on unit to select all of it type on screen.

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 group position. **F2** hotkey will select all battle units on map. Fast double **F2** will move camera to you army.

Orders and hotkeys:

- Right click «Move» or «Move»+«Attack» (you can pick action in menu);
- «Move» (Q), «Stay» (W), «Patrol» (E), ignore enemies;
- «Move» (A), «Stay» (S), «Patrol» (D), attack enemies;
- «Select all units» (**F2**) select all battle units on map;
- (Action)(Z) do some ability (if unit have);
- «Destroy» (**Delete**) destroy selected units;
- «Action at point» (X) do action at specific point;
- «Right click action» (Alt+X) switch right click action;
- «Cancel production» (C) abort current production (hotkey work on Units or Upgrades/researches tabs);

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»: RTYFGHVBNUIO and Ctrl + RTYFGHVBN – units;

Tab «*Upgrades/researches*»:

RTYFGHVBNUIOJKL and Ctrl + RTYFGHVBN – 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: **UAC Command Center** or **Hell Keep**. 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. Destruction one of you builds adds 3 seconds of build cooldown. Maximum build cooldown – 12 seconds.



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 - unit producing order will send to any idle building. If any HG/MU is selected - order will send to selected buildings.

Upgrade's 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 enabled in SETTINGS section in menu). You can change camera scroll speed in **SETTINGS** menu section.

Resources and army limit

There is no gold/wood/minerals/etc. like in other RTS games. There is energy level that means how many productions (producing units/building builds/upgrades researching) at one time you can. Maximum unit count (all units + all buildings!) for each player - 110.



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 stay inside.

Royal Battle – like Skirmish, but here is circle on map that slowly reduced radius. All units that step out this circle instantly die.

Starting base: buildings at game start;

Show player starts: if "\(\frac{1}{4}\)" game show you players start positions on map.

<u>Fill empty slots:</u> 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 symbol:

Unit's categories:

Mechanical:

- buildings;
- mechs;

Biological:

- light;
- medium;
- massive;
- Ground;
- Air (soaring and fly);

Other:

HPS – Hits Per Second.

SDR – Splash Damage Range.

BUILDINGS

HEDI

Ice	on	
Sprite		Description
- H	ot	Description
ke		
	Hell Keep	
	Hits	3000
	Size	66
	Building time	60
	Base sight radius	
**	Max count	Unlimited
	Energy required	
	Energy provided	
		ows you to build base.
R	Possible upgrades	•
	20	ortation – allow HK to teleport to any map
	location;	and we are to tempore to unity map
	•	K damage enemy units around;
	- Sight radius upg	
		tion – allow HK teleporting on map
	obstacles;	
	- Built-in Hell Syml	ool – increase provided energy level.
	Hell Gate	
991. St. 391. St. 391. St.	TT'-4	1500
A BUILDING S	Hits	1500
	Size	60
方 第	Building time	41 200
	Sight radius Max count	Unlimited
T	Energy required	
	Energy required	т
	Army production.	
	Hell Symbol	
	TT:4~	125
	Hits Size	125 24
	Building time	8
70	Sight radius	200
	Max count	Unlimited
	Energy required	
Y	Energy provided	
	Provide energy.	
	Possible upgrades	:
	- Short distance to	

	Hell Pool
F	Hits 1000 Size 53 Building time 41 Sight radius 200 Max count Unlimited Energy required 6 Research upgrades.
	Hell Tower
G	Hits 700 Size 21 Building time 20 Base sight/attack radius 250 Max count Unlimited Energy required 2 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.
H	Hits 500 Size 28 Building time 31 Sight radius 200 Max count 1 Energy required 4 Teleport units to any location. Select Hell Teleport and do right click to set destination point. Next select units and do right click on Hell Teleport or it panel 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.

	Hell Monastery	
V	1) Select Hell Monas	make advance any unit: tery and do right click on unit; right click to Hell Monastery building anel;
В	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; supgrade;
N	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 *Lost Soul* unit

Requirements

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

advanced *Lost Soul* unit

Requirements *UAC Military Unit* building

Produce zombies and Hell units.

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 game mode.



Sprite	Icon / Hot key		Description
	R	to fly (use «Action» of - Sight radius upgrawhen it ground; - Command Center (attacking like Major except other CC);	2500 66 80 280 Unlimited 10 8
	T	UAC Military Unit Hits Size Building time Sight radius Max count Energy required Army production.	1700 66 40 200 Unlimited 4
	Y	Hits Size Building time Sight radius Max count Energy required Energy provided Provide energy.	250 42 17 200 Unlimited 2

		UAC Weapon Facto	wer -
		UAC Weapon Facto	ry
		Hits	1700
D. Commercial Commerci	200		
2		Size	62
		Building time	40
	Section	Sight radius	200
		Max count	Unlimited
	\mathbf{F}	Energy required	6
		Research upgrades.	
		UAC Chaingun Tur	ret
		Hits	400
		Size	17
		Building time	15
		Base sight/attack ra	adius 250
		Max count	Unlimited
		Energy required	2
e dia	1 1	_	12
	4.17	Attack	4 HPS
			4111.5
	G	Defense structure. At	tacking like Mastermind unit.
		Possible upgrades:	
		- Range attack upgra	ade:
		- Attack/sight radius	
		- Turrets armor;	, upgrude,
		UAC Radar	
		Hits	500
		Size	35
		Building time	31
	ħ.	Base sight radius	200
		Max count	1
		Energy required	2
· Managara	2	Energy required	<u> </u>
Mark and	Н	Reveals map. To reve	eal map area – select Radar and do right
		Possible unavedes	
		Possible upgrades: - Detectors;	
			corongo rodor gogatino timo and malin-
		- Kauar upgrade - In	crease radar scouting time and radius.

	UAC Tech Center	
V	Hits Size Building time Sight radius Max count Energy required Requirements Can advance units. Possible upgrades: - Advanced armory units; - Fast rearmament To advance unit, se Center or it icon on c	equire short distance between unit and
В	Hits Size Building time Base sight/attack radius Max count Energy required Requirements	400 17 20 250 Unlimited 2 UAC Tech Center building cacking like Major unit.
N	strike" research. Miss	see Station 500 40 31 200 1 4 UAC Tech Center building see. Missile strike requires "Missile siles have 300 damage and 175 SDR. Sight units, x2 to buildings and x0,75 to

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

SPECIAL BUILDINGS

	Mine	
	Hits	1
	Size	5
	Attack	175 damage 100 range
	Base sight radius	100
	Max count	Unlimited
	Requirements	advanced <i>Engineer</i> unit
	Set by advanced UAC Possible upgrades: - Detectors;	C Engineers.
	· · · · · · · · · · · · · · · · · · ·	e can switch to sensor mode that provide
		nd not explode under enemy unit (use

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	T 40 T	
		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
		1 am state	10
		Attack	1 HPS
			1 nrs
*	-A.	Military Unit must have a Possible upgrades: - Melee attack upgrade; - Hell Eye – Lost Soul ca	n transform to Hell Eye (use «Action» order);
N.		_	around light
		Class	ground, light
	\mathbf{T}	Hits	70
	1	Production time	5
		Energy required	1
		Speed	9
		Size	12
		Sight/attack radius	250
		Pain state	every 3 hit
		Attack	12
		110001	1 HPS
			ranged attack. Deal x0,5 damage to <u>air</u> and ing other Imps only with melee attack (damage dvanced Imp has 2 HPS.
		Possible upgrades: - Firepower – increase mi	issiles speed.

	Demon	
17	Class	around modium
	Hits	ground, medium 150
Y		
	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	1
Said Said		
	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
		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	nes speed.
**	Baron of Hell / Hell Knight	t .
	Class	ground, medium
	Hits	350
M.	Production time	40
	Energy required	4
G	Speed	9
	Size	14
		250 common
	Sight/attack radius	190 against <u>air</u>
	Pain state	every 8 hit
	Attack	50
	Auack	0,8 HPS
	Base armor	3
	Heavy ground unit with ran	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 275

Pain state 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 325 attack (against *ground*) and sight ranges.

A CONTRACT		T	
ekmid)	407 (5) 776	Pain Elemental	
		Class	air, medium
		Hits	200
	В	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
			·
			ul when attack or on «Action» order. Advanced
		<u> </u>	anced Lost Souls and spawn 3 Lost Souls after
		death.	
125		Revenant	
	33"		
	4.2	Class	ground, light
		Hits	200
	N	Production time	40
		Energy required	4
		Speed Speed	12
		Size	13
			-
		Base sight/attack radius	250
		Pain state	every 7 hit
		Attack	30
		11ttack	0.8 HPS
		Requirements	Hell Monastery building
		Ground unit with ranged a	attack. Deal x0,5 damage to ground units and
		buildings. Attacking other R	Revenants only with melee attack (damage same
			Revenant has 350 attack ranges against <u>air</u> .
		Possible upgrades:	
		- Revenant missile upgrade	- missiles become homing
CONT.		Mancubus	mission secome norming.
B 37		Class	ground, massive
- C		Hits	400
		Production time	60
	Ctrl		
		Energy required	6
	+	Speed	6
	R	Size	20
		Sight radius	250
		Attack radius	300 common
		Attack radius	150 against <u>air</u>
		Pain state	every 4 hit
		A 440 ole	35x2
		Attack	1.2 HPS
		Base armor	3
		Paguiroments	Hell Monastery building
		Requirements	Ancient Evil upgrade
		Strong ground unit with ran	ged attack. Deal x1,5 to <u>buildings</u> , x0,5 to <u>light</u>
			nechs. Cannot attack other Mancubus. Advanced
		Mancubus have «pain state»	
	ı		

	Arachnoti	ron	
*36.	1-1		
	Class		ground, massive
	Ctrl Hits		350
	Froduction	on time	50
	+ Energy r	equired	6
	T Speed		9
	Size		20
	Sight/atta	ack radius	250
	Pain stat	e	every 4 hit
	A 441-		15
	Attack		4 HPS
	Base arm	or	4
		4	Hell Monastery building
	Requirer	nents	Ancient Evil upgrade
	and <u>air</u> ı		
		Arachnotron has 3	25 attack ranges.
		Arachnotron has 3	25 attack ranges.
,	Advanced	Arachnotron has 3	ground, medium
	Advanced ArchVile Class Hits	Arachnotron has 3	
	Advanced ArchVile Class		ground, medium
	Advanced ArchVile Class Hits Production	on time	ground, medium 400
	Advanced ArchVile Class Hits Production Energy r	on time	ground, medium 400 90
	Advanced ArchVile Class Hits Production Energy r Y Speed	on time	ground, medium 400 90 10
	Advanced ArchVile Class Hits Production Energy r Y Speed Size	on time equired	ground, medium 400 90 10 15
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad	on time equired lius	ground, medium 400 90 10 15 15
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra	on time equired lius adius	ground, medium 400 90 10 15 250 450
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad	on time equired lius adius	ground, medium 400 90 10 15 250 450 every 12 hit
1	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra Pain stat	on time equired lius adius	ground, medium 400 90 10 15 250 450 every 12 hit
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra	on time equired lius adius	ground, medium 400 90 10 15 15 250 450 every 12 hit 90 0.4 HPS
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra Pain state Attack	on time equired lius adius e	ground, medium 400 90 10 15 15 250 450 every 12 hit 90 0.4 HPS 15 SDR
1	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra Pain state Attack Base arm	on time equired lius adius e	ground, medium 400 90 10 15 15 250 450 every 12 hit 90 0.4 HPS 15 SDR 3
1	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra Pain state Attack	on time equired lius adius e	ground, medium 400 90 10 15 15 250 450 every 12 hit 90 0.4 HPS 15 SDR 3 Hell Altar building
	Advanced ArchVile Class Hits Production Energy r Y Speed Size Sight rad Attack ra Pain state Attack Base arm Requirem	on time equired lius adius e	ground, medium 400 90 10 15 15 250 450 every 12 hit 90 0.4 HPS 15 SDR 3

SPECIAL UNITS

**	Ctrl	Zombies	
	F G	Class	ground / air, light
👺 🎂	HV	Size	12
A A	BN	Pain state	every 2 hit
		Requirements	Hell Military Unit building
	U		y advanced Lost Soul . Zombies don't have UAC r'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 u	nits have	no <i>«pain state</i> ».	
g .,	Icon		Described to
Sprite	hot	Description	
	key		
*		Engineer	
		Class	ground, light
		Hits	100
	R	Production time	10
		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 <i>light</i> units, x0,5 to <i>massive</i> 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 N	
AT L	Pa	Medic	Times (use Wietfoll/Forder).
7		Medic	
	Ph	Class	ground, light
		Hits	100
	\mathbf{T}	Production time	10
			10
		Energy required	13
		Speed	13
		Size	220 common
		Sight/attack radius	
			165 against <u>air</u>
		Attack	6
		Dia and in Assessment	1.5 HPS
		Place in transport	1
			ged attack. Can repair own and allies damaged
			amage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25 to
		mecnanical units. Advanced	Medic can paralyze <u>biological</u> units.
		Possible upgrades:	
		- Advanced repair and heal	ing - increase the efficiency of healing.

	Sergeant	
	Class	ground, light
	Hits	100
Y	Production time	10
	Energy required	2
	Speed Speed	13
	Size	12
	Sight/attack radius	240
	Signitatiack radius	Not advanced: Advanced:
		- min: 9 - min: 12
	Attack	- max: 28 - max: 41
	Attack	max SDR: 30 max SDR: 40
	DI	1 HPS, min SDR: 10
	Place in transport	1
	Ground unit with ranged a	ttack. Deal x0,5 damage to fly, light and
	_	echanical units. Damage and splash-range
		get. Advanced Sergeant deal more damage
	_	ant's attack set Hell units into «pain state»
	more often than other units a	=
Ť	Commando	
	Class	ground, light
	Hits	100
F	Production time	15
	Energy required	2
	Speed	12
	Size	12
	Sight/attack radius	250 common
		6
	Attack	8 HPS
	Place in transport	1
		ack. Deal x1,5 damage to <u>light</u> units, x0,5 to <u>hanical</u> units. Advanced Commando has
	Artillery soldier	
	Artificity soluter	
2.5	Class	ground, light
	Hits	100
G	Production time	30
	Energy required	4
	Speed	10
	Size	12
	Base sight/attack radius	250
		50
	Attack	0.6 HPS
	Place in transport	1
	Requirements	UAC Weapon Factory building
	1	- ····································
	_	ack. Deal x1,5 damage to <i>buildings</i> and x0,5 units. Cannot attack <i>air</i> units. Cannot attack

		units closer than 45 nixels	s. Advanced Artillery soldier have 275 attack
		and sight radius.	s. Havaneed Hit inery soluter have 275 accues
		-	
*		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
			4 HPS
		Place in transport	1
		Requirements	UAC Weapon Factory building
		-	ged attack. Deal x1,5 damage to <u>mechs</u> , x0,5 to <u>buildings</u> . Advanced Major can fly (use
*		BFG Marine	
	3.5	Class	ground, light
		Hits	100
	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
			anged attack. Deal x0,5 damage to <i>light</i> , <i>mechs</i> nced BFG Marine has 275 attack and sight

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

		Air APC	
#Media		Class	mech, ground
_		Hits	250
	В	Production time	25
		Energy required	3
		Speed	22
		Size	33
		Sight/attack radius	250
		Signivattack radius	6/12
		Attack (upgrade)	
		D	2 HPS
		Base transport place count	10
		Base armor	3
		Requirements	UAC Weapon Factory building
		Fast air transport. Can transport	rting all ground UAC units. Advanced Air
		APC has 14 places.	
		Possible upgrades:	
		- APC turret.	
		Ground APC	
	\$ 50		
		Class	mech, ground
		Hits	350
	N	Production time	25
		Energy required	3
		Speed	15
		Size	15
		Sight/attack radius	250
		Signivatiack radius	6/12
		Attack (after upgrade)	2 HPS
		Dage two-growt wlose count	
		Base transport place count	
		Base armor	3
		Places in transport	8
		Requirements	UAC Weapon Factory building
		Fast ground transport. Can transporting all ground UAC infantry.	
		Advanced Ground APC has 6 places. Marines can attack while they in	
		APC.	
		Possible upgrades:	
		- APC turret.	
	1		

		1	
A CONTRACTOR OF THE PARTY OF TH	1	Terminator	
D.B.		Class	mech, ground
		Hits	400
	Ctrl	Production time	60
	+		6
	R	Energy required	
	K	Speed	14
		Size	16
		Sight/attack radius	275 common
		Attack	6/12 8 HPS
		Base armor	3
		Place in transport	3
		_	TIACOTE LO 4 1 111
		Requirements	UAC Tech Center building
		1	High technologies upgrade
			ando/advanced like Mastermind).
		Tank	
		Class	mech, ground
	Ctrl	Class Hits	mech, ground 450
		Class Hits Production time	mech, ground 450 60
	+	Class Hits Production time Energy required	mech, ground 450 60 8
		Class Hits Production time Energy required Speed	mech, ground 450 60 8 10
	+	Class Hits Production time Energy required Speed Size	mech, ground 450 60 8 10 20
	+	Class Hits Production time Energy required Speed Size Sight/attack radius	mech, ground 450 60 8 10 20 250
	+	Class Hits Production time Energy required Speed Size	mech, ground 450 60 8 10 20 250 45 SDR
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack Base armor	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS 3
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack Base armor Place in transport	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS 3
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack Base armor	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS 3 7 UAC Tech Center building
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack Base armor Place in transport	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS 3
	+	Class Hits Production time Energy required Speed Size Sight/attack radius Attack Base armor Place in transport Requirements Heavy ground unit with	mech, ground 450 60 8 10 20 250 45 SDR 0.6 HPS 3 7 UAC Tech Center building

		Flyer	
		Class	mech, air
		Hits	350
	Ctrl	Production time	60
	+	Energy required	8
	Y	Speed	19
		Size	18
		Sight/attack radius	275
		Attack	30
		Attaux	2 HPS
		Base armor	3
		Requirements	UAC Tech Center building
		Requirements	High technologies upgrade
			ged attack. Deal x0,5 damage to ground units and
		buildings. Advanced Fly	yer has 350 attack ranges against <u>air</u> .

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

UPGRADES

Hell

Icon / Hot key	Time Energy Level	Description	Requirements
R	180 4 4	Range attack upgrade Increase all ranged attacks damage.	
T	180 4 4	Unit armor upgrade Increase unit's armor.	
Y	120 4 4	Buildings armor upgrade Increase buildings armor.	
F	60 2 3	Melee attack upgrade Increase all melee attacks damage.	
G	120 3 2	Regeneration Damaged units will slowly regenerate their health.	
H	60 2 3	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.	
В	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 location.	

		Degay Aumo	
I	120 3 2	Hell Keep will damage all enemies around. Also, this aura neutralize UAC Medic's toxins 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.	
E L	20 10 15	Hell power Allow Hell Monastery upgrade units.	II all Managtany huilding
Ctrl+R	120 12 1	Ancient evil New buildings, units and upgrades.	Hell Monastery building
Ctrl+T	120 3 1	Reverse teleport Units can teleport back to Hell Teleport.	
Ctrl+Y	120 2 1	Revenant missile upgrade Missiles become homing	
Ctrl+F	120 2 1	Hell Totem and Eye invisibility	Hell Monastery building
Ctrl+G	120 2 3	Building restoration Damaged buildings will slowly regenerate their health.	Ancient evil upgrade
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 can teleport to short distance.	

	180 10	Invulnerability	
Ctrl+B	10 1	Charges for Hell Altar's ability.	Hell Altar building
A. A.		Built-in Hell Symbol	Ancient evil upgrade
Ctrl+N	180 4 3	Additional energy for Hell Keep .	



Icon / Hot key	Time Energy Level	Description	Requirements
R	180 4 4	Range attack upgrade Increase all ranged attacks damage.	
T	120 4 5	Unit armor upgrade Increase infantry unit's 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.	
В	120 3 3	Turrets range upgrade Increased attack range of defensive structures.	

	120	Radar upgrade	
N	2 3	Increase radar scouting time and radius.	
	180	Command Center engines	
U	3 1	Command Center gains ability to fly.	
Ame	190	Command Center turret	
I	180 4 1	Flying Command Center will be able to attack	Command Center engines upgrade
	120	Command Center range	
o	2 2	Increased Command Center's view/build range.	
30	60	Mines	
J	2 2	Engineer ability.	
	60	Mine-sensor	
K	2 1	Mine ability.	Mines upgrade
୬ €	120	Advanced armory	
(<u>(</u>) —	12 1	Tech Center will be able to upgrade own	
ماده		units. High technologies	UAC Tech Center building
Ctrl+R	120 12 1	New buildings, units and upgrades.	
(*) (*)	180	Missile strike	
Ctrl+T	12 8	Missile for Rocket Launcher Station .	
2	120	Advanced engines	
Ctrl+Y	3 2	Increase mechs move speed.	UAC Tech Center building
	180	Mech armor upgrade	High technologies upgrade
Ctrl+F	4	Increase mechs armor.	
	120	Fast rearming	
Ctrl+G	2	Decrease Tech Center reloading time.	

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