

The Ultimate MarsWars – is a real-time strategy game set in the Doom 2 universe. Current version -52.

Main menu

Section MAP

Map settings:

Ransom seed (0-4294967295) – determines positions of obstacles and players starts. Right click - generate random value.

Size – map size in pixels (value between 2000-8000 with step of 250).

Lakes – "lake's" obstacles part.

Obstacles – obstacles count multiplier.

Symmetric – symmetry option.

Random map – set random map settings.

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

Liquids do not damage units.

Section PLAYERS

Players table.

Player	Status	Side	Feam	Color
П	∞	∞	L	\circ

DoomPlayer	<	RANDOM	1	
AI 7	С	RANDOM	2	
AI 7	С	RANDOM	3	
AI 7	С	RANDOM	4	
AI 7	С	RANDOM	5	
AI 7	С	RANDOM	6	

Fields description:

Player name:

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

Status:

« »(no symbol) – Empty slot;

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

For multiplayer game:

«+» or «-» - Player «ready»/«not ready» status;

«?» – Connection problem;

«@» – Host player (server);

 $\ll \sim$ You position.

Side - Hell or UAC. When Team = -- this field will contain --OBSERV. » value.

Team – team number [-,1-6]; players that have equal team number will be allies; value «-» mean this player is *observer*.

Color – player color; color cannot be changed.

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

Section SETTINGS

Subsection «GAME»:

COLORED SHADOWS – switch unit shadows color to player's color;

SHOW APM – APM information;

HEALTH BARS - unit's health bars draw option;

RIGHT CLICK – right click order type;

SCROLL SPEED – camera move speed;

MOUSE SCROLL – switch camera move by mouse;

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

UI LANGUAGE – English or Russian;

CONTROL PANEL POSITION - up/down/left/right;

PLAYERS COLOR – players color scheme.

Subsection «VIDEO»:

WINDOW RESOLUTION:

WINDOWED - full screen or windowed;

SHOW FPS – FPS information.

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 CAMPAINGS

Campaigns missions. 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, which 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 game settings using text commands in game chat.

Use -h or -help command to show all exist chat-commands;

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

After 10 seconds after last player disconnect server reset game.

Game mechanics

Game control panel

Game minimap:

Minimap indicator types:

- Green pulse circle unit ready;
- Green pulse square construction complete;
- Yellow pulse square upgrade complete;
- Aqua pulse circle unit promoted;
- Red pulse circle unit is under attack;
- Red pulse square base is under attack.

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);

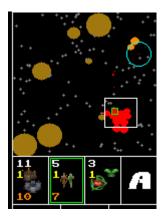
White - time to production end;

Aqua – ability reloading time;

Other UI



- 1) Time game time;
- 2) Game mode specific information;
- 3) *Energy* section free energy level / maximum energy level;
- 4) Army section limit of all units (units + buildings); put cursor here to see limits to each category;
- 5) FPS/APM info;
- 6) Unit groups info.





Hint format

```
Imp (R,200,1,28)
[T1,unit,biological,light,ground]

Arming/Abilities: ranged attack, targets: [alive] except [Imp], damage: x1.5 [unit,biological,heavy]; melee attack, targets: [Imp].

Produced by: Demon's Gate

Name (HOTKEY energy limit use/upgrade max level PRODUCTION TIME*)
```

Name (HOTKEY, energy, limit use/upgrade max level, PRODUCTION TIME,*) [Unit categories]

Description

Requirements: (if exits)

Produced by: (only for units/buildings) which buildings can produce this unit/building;

- (only for upgrades) mean 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 button - to command it. You can add units to selection with **«Shift»** button. Use double left click on unit or single click with **«Ctrl»** key to select all of its kind 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»**. Use double group hotkey to move camera to nearest units in this group. **«F2»** hotkey will select all battle units on map. Double **«F2»** hotkey will to move camera to nearest battle unit. For buildings, which can produce units, you can set rally-point using mouse right click.

Orders:

- Mouse right click «Move» or «Move»+«Attack» depend on your choice in settings;
- «Special ability» (\mathbf{Q}) do special ability (if unit have it, see unit's hint).
- «Special ability at point» (W) do special ability at specified location (if unit have it, see unit's hint).
- «Rebuild/Advance» (E) start rebuild/advance (if unit have this mechanic, see unit hint).
- «Move» (**A**), «Stay» (**S**), «Patrol» (**D**), attack enemies;
- «Move» (**Z**), «Stay» (**X**), «Patrol» (**C**), ignore enemies;
- «Cancel production» (**Ctrl**+**C**) abort current production;
- «Select all battle units» (**F2**);
- «Destroy» (**Delete**) destroy selected units;
- «Alarm mark» (**F5**) put a mark for allies;
- «Right click action» (Ctrl+Space) switch right click order.

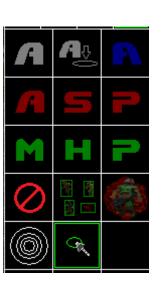
«**TAB**» – switching game control panel tabs;

Tab «Buildings»: **RTYFGHVBNUIOJKL** – buildings;

Tab «*Units*»: **RTYFGHVBNUIOJKL** 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.
- «**PrtScr**» make screenshot.
- «**Shift+Enter**» all players chat;
- «Ctrl+Enter» allies chat.



Moving camera

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

Build base, units and upgrades production

To build a base you must have at least one builder. Press on building's icon on control panel to select which building type you need. Game start draw circle around mouse cursor. Radius of circle is radius of building. If circle is **red** – you need more space, if **blue** - too far from builder, if **green** - you can start build here. Use right click to cancel selection. If building's icons are disabled, that mean: there is no one builder; number of buildings of this type reached limit; not enough energy or not satisfied requirements.

Unit's icons enabled when there is at least one building that can produce it, 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.

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.

Resources and army limit

There is no gold/wood/minerals/etc. like in other RTS games. There is energy level that means how many produce units/build buildings/research upgrades at one time you can. Maximum unit limit (all units + all buildings!) for each player - 125.



Game mode:

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

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

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

Capturing points - there is 4 points on map that needs to capture. To win the game you must capture all of them.

Invasion - players must survive for 20 waves of powerful monsters.

King of the Hill – to win the game, players must capture and hold for 1-minute central area of the map;

Royal Battle – there is circle of death that start collapse from map borders to it center; any units outside the circle die.

Builders at game start;

<u>Fixed player starts</u>: if "+" game show you players start positions on map.

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

Neutral generators:

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 no armor and take 100% damage. If maximum energy level = 0 - all your buildings will explode. In non-campaign games, if player loss all their builders – all his units revealed on map.

Armor will decrease damage.



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		
Sprite	/ Hot	Description	
	hot key		_
	Acy	Hell Keep	
		нен жеер	
		Hits	3000
		Size	66
		Building time	83
		Base sight radius	280
		Max count	Unlimited
44	All and	Energy required	8
And the second s		Energy provided	6
		Main building. Allow	s you to build base.
	R	Possible upgrades:	
		- Hell Keep teleporta	ation – allow HK to teleport to any map
		place;	
		•	start damage enemy units around;
		- Sight radius upgrad	
			n – allow HK teleporting on map
		obstacles;	
		-	– increase provided energy level.
		Hell Gate	
28 St 29 St 20 St	Greuntenen	Hits	1500
	50 (3)	Size	60
80-100 MARK - 173	ALC: N	Building time	41
		Sight radius	200
	\mathbf{T}	Max count	Unlimited
	1	Energy required	4
		Produce units.	
		Hell Symbol	
		Hits	200
		Size	24
		Building time	10
2.0	75. 1 75. 1	Sight radius	200
		Max count	Unlimited
		Energy required	1
	\mathbf{Y}	Energy provided	1
		Provide energy.	
		Possible upgrades:	
		- Short distance telep	portation;

	Hell Pool
F	Hits 1000 Size 53 Building time 41 Sight radius 200 Max count Unlimited Energy required 6 Research upgrades.
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 point: select Hell Teleport and do right click to set destination point; select units 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.

	Hell Monastery	
V	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: 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 upgra Attack/sight radius Short distance telep Invisibility.	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- characteris	

SPECIAL BUILDINGS

Hell Eye

Base sight radius

Max count Unlimited Lost Soul unit

Requirements Hell Eye upgrade

250

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

Possible upgrades:

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

- Invisibility;

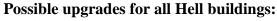
Hell Military Unit

Hits 1500 70 Size **Sight radius** 200 Max count Unlimited

advanced Lost Soul unit Requirements

UAC Military Unit building

Produce zombies and Hell units.



- 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
	R	to fly (use «Action» of - Sight radius upgrawhen it on ground; - Command Center (attacking like Major	4000 66 80 280 Unlimited 8
	T	UAC Military Unit Hits Size Building time Sight radius Max count Energy required Produce units.	1700 66 40 200 Unlimited 4
	Y	Hits Size Building time Sight radius Max count Energy required Energy provided Provide energy.	400 42 20 200 Unlimited 2 2

	UAC Weapon Facto	rv
F G	Hits Size Building time Sight radius Max count Energy required Research upgrades. UAC Chaingun Turk Hits Size Building time Base sight/attack ra Max count Energy required Attack	1700 62 40 200 Unlimited 6 ret 400 17 15 adius 250 Unlimited 2 12 4 HPS tacking like Mastermind unit.
H	right click on this area Possible upgrades: - Detectors;	500 35 31 200 1 2 eal any map area – select Radar and do

	UAC Tech Center	
V	units; - Fast rearmament time.	1700 62 94 200 1 10 UAC Weapon Factory building - Tech Center will be able to upgrade - decrease Tech Center upgrade reloads elect unit and do right click on Tech control panel.
В	Hits Size Building time Base sight/attack radius Max count Energy required Requirements Defense structure. Att Possible upgrades: - Range attack upgrades: - Attack/sight radius - Turrets armor;	400 17 20 250 Unlimited 2 UAC Tech Center building tacking like Major unit.
N	strike" research. Miss	her Station 500 40 31 200 1 4 UAC Tech Center building Ke. Missile strike requires "Missile sile have 300 damage and 150 SDR. 5 light 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
all the same of th		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;	ıde;

SPECIAL BUILDINGS

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

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.

	T ₀₀					
	Icon					
Sprite	/		Description			
_	hot		•			
A	key	T 4 G 1				
*		Lost Soul				
	3		1. 1.			
		Class	soaring, light			
	R	Hits	90			
	1	Production time	8			
		Energy required	1			
		Speed	23			
		Size	10			
		Sight/attack radius	250			
		Pain state	every 3 hit			
		Attack	10			
		Attack	1 HPS			
			n transform to Hell Eye (use «Action» order);			
T		Imp				
	6.1	Class	ground, light			
	_	Hits	70			
	\mathbf{T}	Production time	5			
		Energy required	1			
		Speed	9			
		Size	12			
		Sight/attack radius	250			
		Pain state	every 3 hit			
			12			
		Attack	1 HPS			
		Weak ground unit with ranged attack. Deal x0,5 damage to <u>air mechanical</u> units. Attacking other Imps only with melee attack (dasame as ranged attack). Advanced Imp has 2 HPS. Possible upgrades: - Firepower – increase missiles speed.				

	Demon	
1.6	Class	ground, medium
	Hits	150
Y	Production time	8
	Energy required	2
	Speed	15
	Size	14
	Sight/attack radius	200
	Pain state	every 8 hit
		40
	Attack	1 HPS
	Base armor	2
		e attack. Cannot attack air units (except Lost
	Soul). Advanced Demon has	· · · · ·
	Possible upgrades:	, ,
		Demon's movement speed and attack.
X X	Cacodemon	1
Sant Sant		
	Class	air, medium
	Hits	225
\mathbf{F}	Production time	20
	Energy required	2
	Speed	9
	Size	14
	Base sight/attack radius	250
	Pain state	every 6 hit
	A441	25
	Attack	0,8 HPS
	Base armor	2
	Air unit with ranged attack.	Deal x1,25 damage to light units, 0,75 to air
	and massive units, x0,5 to me	echanical units. Attacking other Cacodemons
	only with melee attack (d	lamage same as ranged attack). Advanced
	Cacodemon has 275 attack a	and sight ranges.
	Possible upgrades:	
	- Firepower – increase miss	iles speed.
*	Baron of Hell / Hell Knight	<u> </u>
	Class	ground, medium
	Hits	350
	Production time	40
	Energy required	4
G	Speed	9
	Size	14
		250 common
	Sight/attack radius	190 against <i>air</i>
	Pain state	every 8 hit
	Attack	50
	Attack	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 \underline{light} units, x0,75 to \underline{air} and $\underline{mechanical}$ 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

Hits2000Production time90Energy required8Speed10Size35

Base sight/attack radius

275 common
205 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 325 attack (against *ground*) and sight ranges.

h million d			
estimate)	100 250 Miles	Pain Elemental	
		Class	air, medium
		Hits	200
	В	Production time	40
			6
		Energy required	
		Speed	9
		Size	14
		Sight radius	250
		Attack radius	350
		Pain state	every 3 hit
		A 441-	spawn Lost Soul
		Attack	0.6 HPS
		Requirements	Hell Monastery building
		_	I on attack or on «Action» order. Advanced Pain
			Lost Souls and spawn 3 Lost Souls after death.
•	A. (1)	Revenant	Lost Bouls and spawn 3 Lost Bouls after death.
4	4	Revenant	
3 6	2		1.1.1.
		Class	ground, light
	N	Hits	200
	17	Production time	40
		Energy required	4
		Speed	12
		Size	13
		Base sight/attack radius	250
		Pain state	every 7 hit
		1 am state	30
		Attack	
			0.8 HPS
		Requirements	Hell Monastery building
			ck. Deal x1,5 damage to <u>mechs</u> and x0,75 to <u>air</u>
			ner Revenants only with melee attack (damage
		same as ranged attack). Adva	nced Revenant has 325 attack ranges.
		Possible upgrades:	
		- Revenant missile upgrade	- missiles become homing.
		Mancubus	
	- 11	Class	ground, massive
	~ . •	Hits	400
	Ctrl	Production time	60
	+	Energy required	6
	R	Speed Speed	6
	11	Size	20
		Sight radius	250
		Attack radius	300 common
		Data state	150 against <u>air</u>
		Pain state	every 4 hit
		Attack	35x2 1.2 HPS
		Base armor	3
			Hell Monastery building
		Requirements	Ancient Evil upgrade
			ged attack. Deal x1,5 to <u>buildings</u> , x0,5 to <u>light</u>
		Mancubus have «pain state»	echs. Cannot attack other Mancubus . Advanced
		INCOMPRESENTATION OF THE PROPERTY OF THE PROPE	PROPERTY

Vand.	1	Arachnotron		
		Class	ground, massive	
	~. •	Hits	350	
	Ctrl	Production time	50	
	+	Energy required	6	
	\mathbf{T}	Speed	9	
		Size	20	
		Sight/attack radius	250	
		Pain state	every 4 hit	
		A 441-	15	
		Attack	4 HPS	
		Base armor	4	
		Requirements	Hell Monastery building Ancient Evil upgrade	
*	5	ArchVile Class	ground, medium	
	~ .	Hits	400	
	Ctrl	Production time	90	
	+	Energy required	10	
	Y	Speed	15	
		Size	15	
		Sight radius	250	
		Attack radius	400	
		Pain state	every 12 hit	
			90	
		Attack	0.4 HPS	
			15 SDR	
		Base armor	3	
		Requirements	Hell Altar building Ancient Evil upgrade	
		Strong ground unit with Advanced ArchVile can	h ranged attack. Deal x0,5 damage to <i>buildings</i> .	

SPECIAL UNITS

**	Ctrl	Zombies	
	F G H V	Class Size	ground / air, light 12
4 2	BN	Pain state	every 2 hit
		Requirements	Hell Military Unit building
	U		ed by advanced Lost Soul . Zombies don't have ngineer'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

IIAC units have no ungin states

UAC ui		no <i>«pain state»</i> .		
	Icon			
Sprite	hot		Description	
	key			
e.	RCy	Engineer		
·	4	Engineer		
	100	Class	around light	
		Hits	ground, light 100	
	R		100	
		Production time	10	
		Energy required	1	
		Speed	13	
		Size	12	
		Sight/attack radius	220 common	
		8-3	165 against <u>air</u>	
		Attack	6	
		Titutch	1.7 HPS	
		Place in transport	1	
		Weak ground unit with range	ed attack. Can repair own and allies damage	
		mechanical units. Deal x1,5 d	amage to <i>light</i> units, x0,5 to <i>massive</i> and x0,2	
		Possible upgrades: - Advanced repair and healin - Mines - Engineer can set M Medic	ng - increase the efficiency of repairing; ines (use «Action» order).	
V		Class	ground, light	
		Hits	100	
	\mathbf{T}	Production time	10	
		Energy required	10	
		Speed Speed	13	
		Size	12	
		Size	220 common	
		Sight/attack radius		
			165 against <u>air</u>	
		Attack	6	
		TDI	1.5 HPS	
		Place in transport		
			ed attack. Can repair own and allies damage	
			mage to <u>light</u> units, x0,5 to <u>massive</u> and x0,25 t Iedic can paralyze <u>biological</u> units.	
		Possible upgrades: - Advanced repair and healing	ng - increase the efficiency of healing.	

<u>*</u>	Sergeant	
	Beigeant	
37	Class	ground, light
X 7	Hits	100
Y	Production time	10
	Energy required	2
	Speed	13
	Size	12
	Sight/attack radius	240 common
	S-g-10/ 41140-11 1 4441-445	180 against <u>air</u>
		Not advanced: Advanced:
		- min: 9 - min: 12
	Attack	- max: 28 - max: 41
		max SDR: 30 max SDR: 40
		1 HPS, min SDR: 10
	Place in transport	1
	0	attack. Deal x0,5 damage to <u>fly</u> , <u>light</u> and <u>echanical</u> 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	
2"	Class	ground, light
T.	Hits	100
F	Production time	15
	Energy required	2
	Speed	11
	Size	12
	Sight/attack radius	250 common
	Signifattack radius	220 against <u>air</u>
	Attack	6
		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	
	Class	ground, light
	Hits	100
G	Production time	30
	Energy required	4
	Speed Speed	10
	Size	12
	Base sight/attack radius	250
		50
	Attack	0.6 HPS
	DI	
·	Place in transport	1
	Place in transport Requirements	UAC Weapon Factory 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.	
H	_	ground/air, light 100 20 4 Not advanced: 9 Advanced: 13 12 250 15 4 HPS 1 UAC Weapon Factory building attack. Deal x1,5 damage to mechs, x0,5 buildings. Advanced Major can fly (use
V	_	ground, light 100 60 5 10 12 250 125 125 SDR 0.4 HPS 1 UAC Weapon Factory building ek. Deal x0,5 damage to light, mechs units G Marine has 275 attack and sight ranges.

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

		Air APC	
1000	The second second	Class	mech, ground
_	_	Hits	250
	В	Production time	25
		Energy required	3
		Speed	22
		Size	33
		Sight/attack radius	250
			6/12
		Attack (upgrade)	2 HPS
		Base transport place count	10
		Base armor	3
		Requirements	UAC Weapon Factory building
		requirements	one weapon ructory canding
		Fast air transport. Can transpor	rting all ground UAC units. Advanced Air
		APC has 14 places.	tung an ground offe units. Navaneed in
		AT C has 14 places.	
		Possible upgrades:	
		- APC turret – give to APC w	aanon
		Ground APC	сароп.
	2 200	Ground AFC	
		Class	mach around
		Hits	mech, ground 350
	N	Production time	
	_ ,		25 3
		Energy required	
		Speed	15
		Size	15
		Sight/attack radius	250
		Attack (after upgrade)	6/12 2 HPG
			2 HPS 4
		Raca tranchart hiaga calint	4
		Base transport place count	
		Base armor	3
		Base armor Places in transport	3 8
		Base armor	3
		Base armor Places in transport Requirements	3 8 UAC Weapon Factory building
		Base armor Places in transport Requirements Fast ground transport. Can	3 8 UAC Weapon Factory building transporting all ground UAC infantry.
		Base armor Places in transport Requirements Fast ground transport. Can	3 8 UAC Weapon Factory building
		Base armor Places in transport Requirements Fast ground transport. Can Advanced Air APC has 6 place	3 8 UAC Weapon Factory building transporting all ground UAC infantry.
		Base armor Places in transport Requirements Fast ground transport. Can	3 8 UAC Weapon Factory building transporting all ground UAC infantry. es. Marines can attack while they in APC.

	1	Terminator	
	£22	Class	mech, ground
		Hits	350
	Ctrl	Production time	60
	+	Energy required	6
	R	Speed	14
		Size	16
		Sight/attack radius	275 common
			6/12
		Attack	8 HPS
		Base armor	3
		Place in transport	3
		Requirements	UAC Tech Center building
		Requirements	High technologies upgrade
1 • • • • • • • • • • • • • • • • • • •	-2-8	Tank	
	OF E		, ,
		Class	mech, ground
	Ctrl	Hits	400
	+	Production time	60 8
	\mathbf{T}	Energy required	8 10
	1	Speed Size	20
			250
		Sight/attack radius	45 SDR
		Attack	0.6 HPS
		Base armor	3
		Place in transport	7
		_	UAC Tech Center building
		Requirements	High technologies upgrade
	1	1	

- 13-	Flyer	
	Class	mech, air
C41	Hits	350
Ctrl	Production time	60
+	Energy required	8
Y	Speed	19
	Size	18
	Sight/attack radius	275
	Attack	30
		2 HPS
	Base armor	3
	Da contracta	UAC Tech Center building
	Requirements	High technologies upgrade
	Heavy ground unit with	ranged attack. Deal x0,5 damage to ground units
	and buildings. Advanced	d 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

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.	

		Decay Aura		
I	120 3 2	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.		
E L	20 8 15	Hell power Allow Hell Monastery upgrade units.	TT-11 N/L	
Ctrl+R	180 10 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 and Altars can teleport to short distance.		

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



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.	
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.	
U	180 3 1	Command Center engines	
		Command Center gains ability to fly.	
	400	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	Increased Command Center view/build range.	
30	120	Mines	
J	2	Engineer ability.	
	60	Mine-sensor	Minagunagada
K	<u>1</u>	Mine ability.	Mines upgrade
<u> </u>	180	Advanced armory	
L	8 1	Tech Center will be able to upgrade own units.	
چاله	190	High technologies	UAC Tech Center building
Ctrl+R	10 1	New buildings, units and upgrades.	
	180	Missile strike	
Ctrl+T	10 8	Missile for Rocket Launcher Station.	
40	120	Advanced engines	
Ctrl+Y	120 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 upgrade reloads time.	

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