

COMPANY COMMANDER

MODULE 1


AIR DEFENCE UNITS

TACTICAL BRIEFING ON AIR DEFENCE UNITS


These units fall into several categories. The first group are light weapons usually 12.7mm heavy machine guns, and 20mm cannon.

These are the cheapest and most readily available and can be effective at very low levels. The next type of unit is the fast fire heavy calibre cannon, of around 30 - 60 mm calibre. These units rely on rate of fire to fill the air with shrapnel for the oncoming aircraft to fly into. These units are not normally linked to a radar system and need to fire a great many rounds to achieve this 'wall of steel' type defence. The other type of weapon is the missile launcher unit. This unit tracks targets and attacks them using missiles. Missiles tend to come in two categories, hand held (light Short Range) and Heavy, usually vehicle mounted and radar controlled.


The doctrine of AAAD is the surest way to defend a target. This means All Arms Air Defence. The theory is that all available weapons are brought to bear against the attacker, from light machine guns, hand held missiles and upward to the heavy AA units. The theory is that any damage is good damage, and if ground fire causes losses, the aircraft will have to fly higher to escape, where they will come into the most effective operational area of the missile units. It would be foolhardy to have any place of strategic value that does not have some sort of air defence. Attack from the air can be devastating to an undefended location, so proper means should be taken to make the airspace above your ground units as hazardous as possible to your enemies.

Unit Designation	ZPU-4 14.5 mm Quad Heavy Machinegun		
Country	Russia		
Base Price	40		
Base TTC	80		
Crew	4		
Unit Weight (Lbs)	3700		
Road Speed (mph)	0		
Supply (Pts)	6		
Travel Range (Miles)	0		
Night	<input type="checkbox"/>		
Main Armament	4 x 14.5 mm Heavy Machineguns		
Main Armament Range (M)	0	Attack Strength Soft	7
AAA Ground Range (Metres)	2000	Attack Strength Lt Armour	4
AAA Range Altitude (feet)	1500	Attack Strength Anti Tank	2
AAA Air Range	2500	Attack Strength AAA	9
Radar	<input type="checkbox"/>	Attack Strength Forts	2
Manportable	<input type="checkbox"/>	Defence Strength	1


One new ZPU-4 anti aircraft gun. The quad mounted 14.5mm heavy machine guns have a high rate of fire with very good accuracy at low altitudes. This is a close in defence weapon against helicopters and low flying attack craft. The ZPU-4 can be towed on or off-road by light truck or larger. Its small load allows it to be carried by most transport aircraft.

Unit Designation	Oerlikon 20 mm Light Air Defence Weapon		
Country	Sweden		
Base Price	99		
Base TTC	160		
Crew			
Unit Weight (Lbs)	893		
Road Speed (mph)			
Supply (Pts)	8		
Travel Range (Miles)			
Night	<input type="checkbox"/>		
Main Armament	2 x 20 mm auto cannon		
Main Armament Range (M)		Attack Strength Soft	7
AAA Ground Range (Metres)	1500	Attack Strength Lt Armour	5
AAA Range Altitude (feet)	1600	Attack Strength Anti Tank	2
AAA Air Range	1800	Attack Strength AAA	11
Radar	<input type="checkbox"/>	Attack Strength Forts	2
Manportable	<input type="checkbox"/>	Defence Strength	1

One reconditioned Oerlikon 20 mm twin barrellled light Anti Aircraft gun. This unit has been proven as a light air defence weapon, with a good rate of fire. It has no radar, so can only be used with its optical sights, limiting engagement times in poor visibility, and making much less effective during the night. However, it can engage targets out to 1000 metres, and to over 700 feet, and is also a useful weapon against light armour and soft targets. Unit can be towed by any vehicle.

Unit Designation	S-60 57mm Anti Aircraft Gun		
Country	Russia		
Base Price	220		
Base TTC	600		
Crew			
Unit Weight (Lbs)	11000		
Road Speed (mph)			
Supply (Pts)	9		
Travel Range (Miles)			
Night	<input type="checkbox"/>		
Main Armament	1 x 57 mm Anti Aircraft Gun		
Main Armament Range (M)		Attack Strength Soft	6
AAA Ground Range (Metres)	1500	Attack Strength Lt Armour	8
AAA Range Altitude (feet)	20000	Attack Strength Anti Tank	4
AAA Air Range	1800	Attack Strength AAA	16
Radar	<input type="checkbox"/>	Attack Strength Forts	6
Manportable	<input type="checkbox"/>	Defence Strength	1


One Reconditioned S-60 57 mm Anti Aircraft Gun. It fires a large explosive shell that scatters shrapnel over a wide area, filling the sky with metal to damage or bring down aircraft. It has no advanced aiming devices, and relies upon a simple sight, so engagements can only be made in daylight with good visibility. This unit is also quite useful against ground targets, as it has been proved to be very destructive to personnel, soft targets and light armour. This unit can be towed by a Medium truck or larger vehicle.

Unit Designation	M53/39 30 mm Self Propelled Anti Aircraft		
Country	Serbia		
Base Price	190		
Base TTC	560		
Crew			
Unit Weight (Lbs)	22708		
Road Speed (mph)	40		
Supply (Pts)	12		
Travel Range (Miles)	220		
Night	<input type="checkbox"/>		
Main Armament	2 x 30 mm AA Guns		
Main Armament Range (M)		Attack Strength Soft	6
AAA Ground Range (Metres)	1000	Attack Strength Lt Armour	4
AAA Range Altitude (feet)	800	Attack Strength Anti Tank	3
AAA Air Range	1200	Attack Strength AAA	10
Radar	<input type="checkbox"/>	Attack Strength Forts	5
Manportable	<input type="checkbox"/>	Defence Strength	2

One reconditioned M-53/39 self propelled anti aircraft gun system. The M53/39 is very much a WW II design, with optically sighted guns on a wheeled carrier. It has a fair rate of fire and can engage targets at 800 feet, altitude or over 900 metres against ground targets. It has an open turret, and little storage for ammunition, which means its high rate of fire will soon exhaust its ready ammunition, making replenishment vital. This is a fair weather, day system with no radar.

Unit Designation	ZU-23-2 Twin 23mm Anti Aircraft Gun		
Country	Russia		
Base Price	110		
Base TTC	160		
Crew	4		
Unit Weight (Lbs)	1850		
Road Speed (mph)			
Supply (Pts)	7		
Travel Range (Miles)			
Night	<input type="checkbox"/>		
Main Armament	twin 23 mm Cannons		
Main Armament Range (M)		Attack Strength Soft	3
AAA Ground Range (Metres)	2200	Attack Strength Lt Armour	2
AAA Range Altitude (feet)	16000	Attack Strength Anti Tank	1
AAA Air Range	2500	Attack Strength AAA	11
Radar	<input type="checkbox"/>	Attack Strength Forts	2
Manportable	<input type="checkbox"/>	Defence Strength	1

One reconditioned ZU-23-2 low level anti aircraft artillery. This unit provides a high volume of fire against low level air attack. They burn ammunition very quickly, so good levels of supply are essential. There is no radar or electric traverse, so fast aircraft are difficult to target. The unit is towed by any vehicle.

Unit Designation	ZRK Romb Mobile Launcher (SA-8 Gecko)		
Country	Russia		
Base Price	222		
Base TTC	490		
Crew	3		
Unit Weight (Lbs)	19000		
Road Speed (mph)	45		
Supply (Pts)	5		
Travel Range (Miles)	500		
Night	<input checked="" type="checkbox"/>		
Main Armament	6 x SA-8 Gecko Surface to Air Missiles		
Main Armament Range (M)		Attack Strength Soft	
AAA Ground Range (Metres)		Attack Strength Lt Armour	
AAA Range Altitude (feet)		Attack Strength Anti Tank	
AAA Air Range		Attack Strength AAA	
Radar	<input checked="" type="checkbox"/>	Attack Strength Forts	
Manportable	<input type="checkbox"/>	Defence Strength	2

One reconditioned ZRK Romb mobile SA-8 Gecko launcher. This unit is fully independent, having twin radars and an optical tracking sight. The radar can acquire targets as far away as 18 miles. Missile engagement can then be carried out at a maximum range of 8 miles. The system can engage targets as low as treetop height, or as high as 16000 feet. With its on board radars and sight, this is a very formidable but very expensive weapon system. The system is highly mobile and amphibious, giving it great tactical flexibility.