WHEELED LIGHT COMBAT VEHICLES

Austrian Wheeled Light Combat Vehicles Belgian Wheeled Light Combat Vehicles Brazilian Wheeled Light Combat Vehicles British Wheeled Light Combat Vehicles Canadian Wheeled Light Combat Vehicles **Croatian Wheeled Light Combat Vehicles Dutch Wheeled Light Combat Vehicles French Wheeled Light Combat Vehicles German Wheeled Light Combat Vehicles International Wheeled Light Combat Vehicles Israeli Wheeled Light Combat Vehicles Italian Wheeled Light Combat Vehicles Japanese Wheeled Light Combat Vehicles Mexican Wheeled Light Combat Vehicles Pakistani Wheeled Light Combat Vehicles** Portuguese Wheeled Light Combat Vehicles **Romanian Wheeled Light Combat Vehicles Russian Wheeled Light Combat Vehicles** Slovakian Wheeled Light Combat Vehicles Slovenian Wheeled Light Combat Vehicles South African Wheeled Light Combat Vehicles **Spanish Wheeled Light Combat Vehicles Swiss Wheeled Light Combat Vehicles** Turkish Wheeled Light Combat Vehicles **US Wheeled Light Combat Vehicles**

Pandur ARFSV

Notes: The ARSFV (Armored Reconnaissance Fire Support Vehicle) is a scout and fire support version of the Pandur APC (see Austrian APCs). In this guise, the Pandur has a turret armed with a 90mm NATO gun. A small scout squad is still carried, but passenger space is reduced.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$273,771	D, A	1.6 tons	17.1 tons	3+4	5	Thermal Imaging, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
140/56	35/14/4	275	87	Trtd	W(3)	TF7 TS6 TR6 HF9 HS4 HR4

Fire Control	Stabilization	Armament	Ammunition
+3	Good	90mm Cockerill gun, MAG, MAG (C)	45x90mm,4000x7.62mm

FN 4RM/62F AB

Notes: This Belgian vehicle is used only by the Belgian Gendarmerie, and marks the FN company's last foray into the armored vehicle market. It was began service in 1971. Two variants are available: one with a 90mm low-pressure gun, and one with a 60mm breech-loaded mortar and twin machineguns.

Twilight 2000 Notes: By 2000, the remaining vehicles were being operated by occupying French forces for internal security purposes.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
90mm Turret	\$158,980	G, A	500 kg	8 tons	3	5	WL Spotlight	Enclosed
MG/Mortar Turret	\$74,005	G, A	500 kg	8.8 tons	3	3	WL Spotlight	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
90mm Turret	132/54	33/14	180	95	Trtd	W(3)	TF3 TS3 TR3 HF3 HS2 HR2
MG/Mortar Turret	126/50	32/13	180	95	Trtd	W(3)	TF3 TS3 TR3 HF3 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
90mm Turret	+2	Basic	90mm French Gun, MAG, MAG (C)	40x90mm, 3680x7.62mm
MG/Mortar Turret	ar Turret +2 Basic		60mm Gun/Mortar, 2xMAG	46x60mm, 4830x7.62mm

EE-3 Jararaca

Notes: The Jararaca is a Brazilian 4x4 recon vehicle in service with a number of armies worldwide. The basic vehicle comes with a ring mount (NHT equivalent) to which an M2HB is usually fitted at the front deck hatch (C). The vehicle has two side doors and a rear deck hatch for crew access. Variant armaments include a 20mm autocannon, a 60mm gun/mortar, and a Milan ATGM launcher.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
M-2HB Ring Mount	\$29,610	D, A	300 kg	5.5 tons	3	2	Passive IR	Enclosed
ATGM Carrier	\$49,524	D, A	300 kg	5.4 tons	3	3	Passive IR	Enclosed
20mm Autocannon	\$144,121	D, A	300 kg	6.15 tons	3	2	Passive IR	Enclosed
60mm Gun/Mortar	\$76,409	D, A	300 kg	6.68 tons	3	2	Passive IR	Enclosed
MG Turret	\$40,524	D, A	300 kg	5.88 tons	3	2	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
M-2HB Ring Mount	164/66	41/17	135	44	Stnd	W(3)	HF7 HS3 HR2
ATGM Carrier	166/66	42/17	135	44	Stnd	W(3)	HF7 HS3 HR2
20mm Autocannon	96/38	24/10	135	48	Trtd	W(3)	TF6 TS4 TR3 HF7 HS3 HR2
60mm Gun/Mortar	144/58	36/15	135	44	Trtd	W(3)	TF6 TS4 TR3 HF7 HS3 HR2
MG Turret	156/62	39/16	135	44	Trtd	W(3)	TF6 TS4 TR3 HF7 HS3 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition	
M-2HB Ring Mount	None	None	M-2HB (C)	1260x.50	
ATGM Carrier	ATGM Carrier None		Milan II Launcher	8xMilan II ATGM	
20mm Autocannon	0mm Autocannon +1		20mm Rh-202 Autocannon, M-2HB (C)	400x20mm, 1260x.50	
60mm Gun/Mortar	60mm Gun/Mortar +1		60mm Gun/Mortar, M-2HB (C)	42x60mm, 1260x.50	
MG Turret None		Basic	M-2HB, MAG	1260x.50, 2400x7.62mm	

EE-9 Cascavel

Notes: The EE-9 is another Brazilian AFV intended for both domestic service and the export market. The Cascavel is a 6x6 wheeled recon vehicle of conventional layout. It has a driver's hatch on the front deck, commander's and gunner's hatches on the turret, and a firing port on each side. The 90mm gun turret has a coaxial MAG MG, and a mount (NMT equivalent) at the commander's hatch (C) for an optional second MAG MG.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological

Mark I	\$134,624	D, A	300 kg	11 tons	3	3	Passive IR	Enclosed
Mark II	\$134,651	D, A	300 kg	11 tons	3	3	Passive IR	Enclosed
Mark II (Rebuilt)	\$177,683	D, A	300 kg	12 tons	3	3	Passive IR	Enclosed
Mark III	\$177,683	D, A	300 kg	12.3 tons	3	3	Passive IR	Enclosed
Mark IV	\$177,954	D, A	300 kg	12.5 tons	3	3	Passive IR	Enclosed
Mark V/VI/VII	\$183,737	D, A	300 kg	12.3 tons	3	3	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Mark I	118/48	30/12	360	47	Trtd	W(3)	TF3 TS3 TR2 HF8 HS5 HR3
Mark II	122/48	31/12	360	50	Trtd	W(3)	TF3 TS3 TR2 HF8 HS5 HR3
Mark II (Rebuilt)	122/48	31/12	360	50	Trtd	W(3)	TF6 TS6 TR4 HF8 HS5 HR3
Mark III	124/50	31/13	360	50	Trtd	W(3)	TF6 TS6 TR4 HF8 HS5 HR3
Mark IV	140/56	35/14	360	62	Trtd	W(3)	TF6 TS6 TR4 HF8 HS5 HR3
Mark V/VI/VII	124/50	31/13	360	62	Trtd	W(3)	TF6 TS6 TR4 HF8 HS5 HR3

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Mark I/Mark II	None	Basic	37mm M-6 Gun, MAG, MAG (C)	107x37mm, 2400x7.62mm
Mark II (Rebuilt)	+1	Basic	90mm EC-90 Gun, MAG, MAG (C)	44x90mm, 2400x7.62mm
Mark III	+2	Basic	90mm French Gun, MAG, MAG (C)	44x90mm, 2400x7.62mm
Mark IV	+2	Fair	90mm EC-90 Gun, MAG, MAG (C)	44x90mm, 2400x7.62mm
Mark V/VI/VII	+3	Fair	90mm EC-90 Gun, MAG, MAG (C)	44x90mm, 2400x7.62mm

<u>Ferret</u>

Notes: The Ferret is an obsolete, British-built, 4x4 armored car, now in service with non-British armies and paramilitary police forces worldwide. It was produced in several variants, and most now are armed with MAG MGs in a turret mount. The vehicle has a single hatch on the turret top serving both driver and commander/gunner. A few models have been fitted with ATGM launchers. The vehicle is fully amphibious (once a floatation screen has been erected).

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Mk 1/1	\$10,220	G, A	200 kg	4.21 tons	2+1	1	Headlights	Enclosed
Mk 1/2	\$12,095	G, A	200 kg	4.37 tons	3	1	Headlights	Enclosed
Mk 2/3	\$15,345	G, A	200 kg	4.4 tons	3	2	Headlights	Enclosed
Mk 2/4	\$15,825	G, A	200 kg	5.2 tons	2	2	Headlights	Enclosed
Mk 2/6	\$22,668	G, A	200 kg	4.56 tons	2	4	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Mk 1/1	204/82	51/21/5	96	76	Stnd	W(2)	HF3 HS2 HR2
Mk 1/2	198/80	50/20/5	96	76	Stnd	W(2)	HF3 HS2 HR2
Mk 2/3	198/78	50/20/5	96	76	CiH	W(2)	TF2 TS2 TR2 HF3 HS2 HR2
Mk 2/4	174/70	44/18/5	96	76	CiH	W(2)	TF4 TS4 TS2 HF5 HS3 HR2
Mk 2/6	192/76	48/19/5	96	76	CiH	W(2)	TF2 TS2 TR2 HF3 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Mk 1/1	None	None	Bren L-2A4 or M-1919A4 (C)	450x7.62mm or .30-06
Mk 1/2	None	None	Bren L-2A4 (C)	1200x7.62mm
Mk 2/3, 2/4	None	None	M-1919A4	2500x.30-06
Mk 2/6	None	None	M-1919A4, 2xVigilant Launchers	2500x.30-06, 4xVigilant ATGM

Fox

Notes: This light armored vehicle was designed concurrently with the Scimitar for use in light divisions. The official British designation is the CVR-W (Combat Vehicle Reconnaissance – Wheeled), and the Fox was meant to replace the Ferret. It was the last armored vehicle that the British division of Daimler built; it then closed its production facilities in 1971. Many Fox turrets were removed and placed on Scorpion chassis; along with some more upgrades, these modified vehicles were made into the Sabre (q.v.). The Fox is also used by Nigeria and Malawi. The driver is in the center of the front deck, with hatches on the turret deck for the commander and gunner. In addition, there is a small door on the left side of the vehicle. The Fox is amphibious with about 5 minutes of preparation. The Fox can be dropped by parachute or LAPES insertion. In combat, Foxes were normally seen festooned with ammunition boxes and fuel cans, as internal storage is extremely limited.

The Panga is a "light" version of the Fox, with a one-man turret armed only with a heavy machinegun. It has a fully automatic transmission, air conditioning, flashing lights and a siren, and a PA system. It is in service only with Malaysia.

The Fox/25mm is a variant armed with a 25mm Chain Gun. It is presented here as an interesting variant, but was never actually

developed beyond the prototype stage.

The Fox/Milan has its turret replaced with a lighter turret mounting twin Milan ATGM launchers. It too was not developed beyond prototype state.

Twilight 2000 Notes: The practice of placing Fox turrets on Scorpion chassis was stopped soon after the start of the war, as it was apparent that as many armored vehicles as possible needed to be available, and the remaining Foxes were refurbished instead. A few Fox/Milans also made it into combat.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Fox	\$46,156	G, A	400 kg	6.39 tons	3	2	Passive IR	Enclosed
Panga	\$28,537	G, A	400 kg	5.84 tons	2	2	Passive IR	Enclosed
Fox/25mm	\$41,426	G, A	400 kg	6.3 tons	3	2	Passive IR	Enclosed
Fox/Milan	\$79,684	G, A	400 kg	6.14 tons	3	4	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Fox	204/82	51/21/5	145	53	Trtd	W(3)	TF5 TS4 TR3 HF6 HS3 HR2
Panga	218/86	55/22/6	145	53	Trtd	W(3)	TF5 TS4 TR3 HF6 HS3 HR2
Fox/25mm	206/82	52/21/5	145	53	Trtd	W(3)	TF5 TS4 TR3 HF6 HS3 HR2
Fox/Milan	210/84	53/21/5	145	53	Trtd	W(3)	TF3 TS2 TR2 HF6 HS3 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Fox	+2	Basic	30mm Rarden, EX-34	99x30mm, 2600x7.62mm
Panga	+2	Basic	M-2HB	1200x.50
Fox/25mm	+2	Basic	25mm Chain Gun, EX-34	250x25mm, 1500x7.62mm
Fox/Milan	+2	None	2xMilan Launchers, EX-34	10xMilan ATGM, 2600x7.62mm

Hornet

Notes: This is a British light armored car sold to several Middle Eastern and African nations. It is fitted with light, but surprisingly effective armor, and a turret. It is based on an armored version of the Land Rover Defender chassis.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$9,764	G, A	425 kg	3.6 tons	3	1	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
218/86	55/22	55	83	CiH	W(2)	TF2Sp TS2Sp TR2 HF2Sp HS2Sp HR2

Fire Control	Stabilization	Armament	Ammunition
+1	Basic	L-7A2	1000x7.62mm

Saladin

Notes: Originally designed to replace a variety of World War 2 armored cars, the Saladin was designed shortly after that war and entered service in 1955. It was in turn replaced in British service by the Scorpion, but remains in service with several Third World nations in Africa, the Middle East, and Southeast Asia. The Saladin is a light 6x6 chassis topped with a turret armed with a short-barreled 76mm gun. There is a hatch on the center front for the driver, and hatches on the turret deck for the commander and gunner.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$133,766	G, A	900 kg	11.59 tons	3	3	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
144/58	36/15	241	125	Trtd	W(4)	TF5 TS5 TR4 HF6 HS4 HR3

Fire Control	Stabilization	Armament	Ammunition
+1	Basic	76mm L-5A1 Gun, M-1919A4, M-1919A4 (C)	42x76mm, 2750x.30-06

Scarab

Notes: Originally designed to replace the Ferrets of the South African Defense Force, the Scarab is based on the chassis of the Unimog U-1600 series of trucks. The Scarab is fitted with lightweight but strong armor able to stop light cannon shells hitting the front of the vehicle. The Scarab is equipped with a light turret mounting a GI2 20mm autocannon. This is a remote turret, aimed and fired by a gunner inside the hull using a downlinked TV monitor with a periscope backup. The windows are of ballistic glass able to provide a level of protection equal to the armor of the face in which they are installed. The floor of the vehicle is mine resistant, and against mine blasts, the floor is treated as having twice the armor of the front face. The driver has a door on the right side of the front compartment; there is also a hatch on the roof over the commander's position.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$34,773	D, A	800 kg	9.5 tons	2+2	3	Passive IR, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
186/74	47/19	360	79	CiH	W(3)	TF6 TS4 TR2 HF14 HS5 HR3

Fire Control	Stabilization	Armament	Ammunition
+2	Fair	20mm GI2 Autocannon	400x20mm

Shorland Mk3

Notes: The Shorland Mk3 was a lightly armored APC version of the LWB Land Rover produced originally for British use in Northern Ireland, but later sold elsewhere. The vehicle is a basic 4x4 Land Rover chassis with an armored body and machinegun turret added.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$10,811	G, A	300 kg	3.36 tons	3	1	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
188/76	47/19	128	53	Trtd	W(2)	TF2 TS2 TR1 HF2 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	L-7A2	1500x7.62mm

Simba AFSV

Notes: This version of the Simba armored personnel carrier was designed as a light reconnaissance vehicle and fire support vehicle for Simba and other wheeled formations. The only pre-war sales were to the Philippines.

Twilight 2000 Notes: Filipino Simbas were used in a very violent manner against rebels in fortified (or not so fortified) positions, and even against rioters in a few instances. Some of these vehicles were acquired by British forces during the war, mostly for internal security purposes, but some of them were used to replace vehicle losses in the European theatre.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$167,929	D, A	500 kg	10 tons	4	3	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
178/70	45/18	230	77	Trtd	W(3)	TF6 TS4 TR4 HF8 HS3 HR3

Fire Control	Stabilization	Armament	Ammunition
+2	Fair	90mm Cockerill gun, EX-34	40x90mm, 1500x7.62mm

<u>Cougar</u>

Notes: This is basically the Grizzly armored personnel carrier topped with a new turret using a 76mm Cockerill cannon. In addition, the passenger space is largely taken up with ammunition racks for the gun. The rear doors are retained, but the rear deck hatches are deleted, as are the firing ports. The turret is larger than the Grizzly's turret, more heavily armored, and has a hatch on the deck for the commander and gunner. The turret is, in fact, the same one as mounted on the British Scorpion and the Australian M-113A1 MRV vehicles. As with the Grizzly, the Cougar is as likely as not to have a weapon mount for the commander by his hatch.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$169,192	D, A	300 kg	10.6 tons	3	3	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
174/70	44/18/5	204	79	Trtd	W(4)	TF5 TS4 TR4 HF6 HS4 HR3

Fire Control	Stabilization	Armament	Ammunition
+2	Fair	76mm Cockerill, C-6, C-6 (C)	40x76mm, 4400x7.62mm

LOV

Notes: The LOV-ABK vehicle is the Croatian equivalent to the BRDM-2-RKhb, being an NBC reconnaissance vehicle. It is not fitted with the marking pennants of that vehicle, but is equipped with an optical chemical sniffer, a Geiger counter, airlocks to bring samples inside the vehicle, remote claws to take samples, and a chemistry set to analyze samples. The LOV-ABK is equipped with an NBC overpressure system and radiation shielding.

The LOV-ED is an electronic warfare variant of the LOV armored personnel carrier. The vehicle is equipped with radio and radar jammers to that cause all radio and radar use rolls to be two levels harder with a 700-meter radius of the vehicle. Also in the vehicle is equipment to intercept radio transmissions.

The LOV-IZV reconnaissance vehicle is a LOV armored personnel carrier with additional weapons, a land navigation system, and extra communications equipment. The LOV-IZV has an extra weapon mount by the commander's hatch for an antimateriel rifle, an 8-barrel 60mm rocket launcher, and an extra weapon mount near by the center roof hatch for a grenade launcher. At least 2 short range and one long range radio is carried.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
LOV- ABK	\$83,148	D, A	1 ton	6.9 tons	4	5	Passive IR	Shielded
LOV-ED	\$34,949	D, A	800 kg	6.8 tons	4	5	Passive IR	Enclosed
LOV-IZV	\$191,377	D, A	400 kg	10 tons	5	6	Passive IR, Image Intensification	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
LOV-ABK	128/52	32/13	170	43	Stnd	W(3)	HF5 HS3 HR3
LOV-ED	142/56	36/14	170	40	Stnd	W(3)	HF5 HS3 HR3
LOV-IZV	116/46	29/12	170	52	Stnd	W(3)	HF5 HS3 HR3

Vehicle	Fire Control	Stabilization	Armament	Ammunition
LOV- ABK/ED	None	None	M-2HB	600x.50
LOV-IZV	None	None	M-2HB, Mk-19, 8-Round 60mm MRL, RT-20 AMR (C)	600x.50, 200x40mm, 8x60mm Rockets, 350x20mm

<u>Fennek</u>

Notes: This Dutch vehicle was designed to replace the Lynx in Dutch service and the Luchs in German service. The vehicle is a 4x4 scout vehicle carrying at least three radios, inertial land navigation gear, GPS, and sensors located on an elevating pod that can be raised 1.5 meters above the vehicle's roof. Included in the sensors is a TV camera with video recorders and a shotgun microphone.

Twilight 2000 Notes: This vehicle was just beginning to be produced at the war's outset, and is rare. They were used in Poland almost from the beginning by German forces, and later by Dutch forces against the French.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$179,674	D, A	1 ton	10 tons	3	5	Thermal Imaging, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
144/58	36/15/4	325	63	Stnd	W(3)	HF10 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition
None	None	M-2HB (C), or MG-3 (C), or HK GMG (C)	3000x.50, or 5000x.7.62mm, or 500x40mm

AML

Notes: Manufactured by the French firm of Panhard, the 4x4 AML comes in several types: The AML-90 is armed with a French 90mm gun, the AML-60/12 with a 60mm gun/mortar and M-2HB, and the AML-60/20 with a 20mm autocannon and 60mm gun/mortar. Both versions have a door on each side, and a hatch on top of the turret for the commander and gunner.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
AML-90 (Gas)	\$149,812	G, A	400 kg	5.5 tons	3	2	Passive IR	Enclosed
AML-90 (Diesel)	\$149,832	D, A	400 kg	5.5 tons	3	2	Passive IR	Enclosed
AML-60-7 (Gas)	\$106,352	G, A	400 kg	4.5 tons	3	2	Passive IR	Enclosed
AML-60-7 (Diesel)	\$106,372	D, A	400 kg	4.55 tons	3	2	Passive IR	Enclosed
AML-60-12 (Gas)	\$95,722	G, A	400 kg	4.3 tons	3	2	Passive IR	Enclosed
AML-60-12 (Diesel)	\$95,742	D, A	400 kg	4.3 tons	3	2	Passive IR	Enclosed
AML-60-20 (Gas)	\$197,084	G, A	400 kg	4.8 tons	3	2	Passive IR	Enclosed
AML-60-20 (Diesel)	\$197,104	D, A	400 kg	4.85 tons	3	2	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel	Fuel Cons	Config	Susp			Arr	nor		
			Cap									
AML-90 (Gas)	152/60	38/15	156	65	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-90 (Diesel)	156/62	39/16	156	34	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-7 (Gas)	170/68	43/17	156	65	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-7 (Diesel)	176/70	44/18	156	34	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-12 (Gas)	166/66	42/17	156	65	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-12 (Diesel)	180/72	45/18	156	34	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-20 (Gas)	135/54	34/14	156	65	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2
AML-60-20 (Diesel)	141/57	35/14	156	34	Trtd	W(2)	TF3	TS3	TR3	HF3	HS2	HR2

Vehicle	Fire	Stabilization	Armament	Ammunition
	Control			
AML-90 (Both)	+1	Basic	90mm French Gun, AAT-F1	20x90mm, 2000x7.62mm
AML-60-7 (Both)	+1	Basic	60mm Gun/Mortar, 2xAAT-F1	53x60mm, 3800x7.62mm
AML-60-12 (Both)	+1	Basic	60mm Gun/Mortar, M-2HB	43x60mm,1300x.50
AML-60-20 (Both)	+1	Basic	60mm Gun/Mortar, 20mm M-693	43x60mm, 500x20mm
			Autocannon	

AMX-10RC

Notes: This reconnaissance vehicle first equipped French forces in 1976. The AMX-10RC has been described as more of a light wheeled tank than a scout car, with its powerful 105mm gun. Production of the first version stopped in 1994, with all versions after that being the upgraded AMX-10RC 105 TML versions (q.v.). Due to its comprehensive communications suite, battle management system, and upgraded night vision, it was highly valued by French officers as a command vehicle as well as a scout vehicle. Other users include Morocco (where they make up a substantial part of the armored forces of that country) and Qatar. Many of the automotive components of the AMX-10RC are the same as on the AMX-10P tracked armored personnel carrier, with about 40% parts commonality, especially in the engine, transmission, and steering mechanisms. The AMX-10RC has air conditioning and heating. The first half of production used a French-made gun, while later vehicles had a gun that fires NATO standard ammunition. The driver's hatch is in the front center of the vehicle, and there are two hatches on the turret deck for the commander and loader. Though it is not a part of the vehicle as delivered, it was a common practice to equip these hatches with weapon mounts.

The AMX-10RC 105 TML is a progressive upgrade of the AMX-10RC armored reconnaissance vehicle, with appliqué armor, upgraded night vision, improved stabilization, and an optional Battle Management System for a commander to keep track of his units and enemy units on a computerized system. A more powerful engine has been installed to cope with the extra weight.

Twilight 2000 Notes: Most of the French vehicles were deployed by the Foreign Legion, with about 50 being retained for use on the Franco-German border and 25 elsewhere in France.

Vehicle	Price	Fuel	Load	Veh	Crew	Mnt	Night Vision	Radiological
		Type		Wt				
AMX-10RC	\$248,649	D, A	500 kg	15.88	4	5	Passive IR, Image	Shielded
				tons			Intensification	
AMX-10RC (Late)	\$328,649	D, A	500 kg	15.96	4	5	Passive IR, Image	Shielded
				tons			Intensification, Thermal	
							Imaging	
AMX-10RC 105	\$320,121	D, A	400 kg	19.63	4	6	Image Intensification,	Shielded
TML				tons			Thermal Imaging	

AMX-10RC 105	\$336,127	D, A	400 kg	19.63	4	7	Image Intensification,	Shielded
TML (Upgraded)				tons			Thermal Imaging	

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
AMX-10RC (Both)	124/50	31/13/3	720	85	Trtd	W(4)	TF6 TS6 TR6 HF8 HS4 HR4
AMX-10RC 105 TML	126/50	32/13	720	106	Trtd	W(4)	TF11Sp TS8Sp TR7 HF14Sp
(Both)							HS7Sp HR5

Vehicle	Fire	Stabilization	Armament	Ammunition
	Control			
AMX-10RC	+3	Fair	105mm French Gun, AAT-F1	38x105mm, 4000x7.62mm
AMX-10RC (Late)	+3	Fair	105mm M-68 Gun, AAT-F1	38x105mm, 4000x7.62mm
AMX-10RC 105 TML	+4	Fair	105mm M-68 Gun, AAT-F1	38x105mm, 4000x7.62mm
AMX-10RC 105 TML (Upgraded)	+4	Good	105mm M-68 Gun, AAT-F1	38x105mm, 4000x7.62mm

EBR

Notes: This is one of the first armored vehicles built in France after the Second World War, but it is based on a pre-World War 2 design, much improved and updated with the technology of the post-war world. Even so, it is a very old design, almost totally replaced by 2000 in the French Army by the AMX-10RC, and found primarily in the hands of Mauritania, Morocco (in small numbers), Portugal, and Tunisia. The EBR has a low profile with four roadwheels and four steel-rimmed floating wheels to ease travel over rough terrain and prevent bottoming out. A novel feature is the front and rear driver stations; the EBR is capable of being driven with equal speed and maneuverability in either direction; however, the Moroccans and Tunisians tend to fill the rear driver's position with supplies and leave the second driver at home (allowing an extra 150 kg to be carried). There are hatches in the front and back decks for the two drivers, and two hatches on the turret deck for the commander and gunner.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$176,663	G, A	400 kg	13.5 tons	4	5	Active/Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
122/50	31/13	380	117	Trtd	W(3)	TF6 TS6 TR6 HF8 HS4 HR4

Fire	e Control	Stabilization	Armament	Ammunition
	+2	Basic	90mm French Gun, AAT-52, AAT-52 (F), AAT-52 (R)	43x90mm, 2000x7.5mm

ERC-90

Notes: The ERC-90 F4 Sagaie 1 was the first form of the ERC-90, adopted by France in 1980 for the Foreign Legion, Marines, Mountain, and airborne forces, and later sold to the Ivory Coast and Nigeria. They are basic 6x6 armored cars topped by large turrets mounting 90mm guns. Starting in 1987, the gasoline engines in the French version were replaced by diesel engines; by the early-1990s, most of these conversions were complete. Not all models of the Sagaie 1 are amphibious, but about half of those manufactured are, and they can enter the water after about 3 minutes of preparation. The driver's hatch is on the right side of the hull, and the commander and gunner's hatches are on the turret deck.

The ERC-2 F4 Sagaie 2 is a standard ERC-90 (which is known as the Sagaie) with two engines fitted in place of the standard gasoline engine. These are usually diesel engines, though gasoline engines are available. The only known customer of this version was Gabon. Its larger tires can distinguish this version.

This version is used by Mexico. It uses a different turret and gun (but also of 90mm caliber), and carries more ammunition. It is equipped with a laser rangefinder.

Twilight 2000 Notes: Some Sagaie 2s were diverted for French use from shipments originally meant for Gabon.

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Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
ERC-90 F4 Sagaie 1 (Gas)	\$146,736	G, A	300 kg	8.3 tons	3	3	Passive IR, Image Intensification	Enclosed
ERC-90 F4 Sagaie 1 (Diesel)	\$146,596	D, A	300 kg	8.2 tons	3	3	Passive IR, Image Intensification	Enclosed
ERC-90 F4 Sagaie 2 (Gas)	\$147,241	G, A	300 kg	8.75 tons	3	4	Passive IR, Image Intensification	Enclosed
ERC-90 F4 Sagaie 2 (Diesel)	\$146,886	D, A	300 kg	8.45 tons	3	4	Passive IR, Image Intensification	Enclosed
ERC-90 F1 Ĺynx (Gas)	\$170,586	G, A	300 kg	7.6 tons	3	3	Passive IR, Image Intensification	Shielded

ERC-90 F1 Lynx	\$170,436	D, A	300 kg	7.45	3	3	Passive IR, Image	Shielded
(Diesel)				tons			Intensification	

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
ERC-90 F4 Sagaie 1 (Gas)	148/60	37/15/4	242	113	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4
ERC-90 F4 Sagaie 1 (Diesel)	126/50	32/13/3	242	43	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4
ERC-90 F4 Sagaie 2 (Gas)	224/90	56/23/6	242	214	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4
ERC-90 F4 Sagaie 2 (Diesel)	172/68	43/17/5	242	72	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4
ERC-90 F1 Lynx (Gas)	142/58	36/15/4	242	98	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4
ERC-90 F1 Lynx (Diesel)	116/46	29/12/3	242	34	Trtd	W(3)	TF6 TS7 TR6 HF8 HS6 HR4

Vehicle	Fire Control	Stabilization	Armament	Ammunition
ERC-90 F4 Sagaie 1 (Both)	+1	Fair	90mm French Gun, AAT-F1, AAT-F1 (C)	20x90mm, 2000x7.62mm
ERC-90 F4 Sagaie 2 (Both)	+2	Fair	90mm French Gun, AAT-F1, AAT-F1 (C)	20x90mm, 2000x7.62mm
ERC-90 F1 Lynx (Both)	+3	Fair	90mm F1 Gun, MAG, MAG (C)	30x90mm, 3000x7.62mm

RPX 6000

Notes: This is another one of those vehicles that the French have offered for export. It can be fitted with a variety of turrets, and several different types were employed by the Legion. It is light enough to be air dropped, and is fast.

Twilight 2000 Notes: This French-made vehicle was originally designed for export, but when the Foreign Legion deployed to the Middle East, quantities of this scout car were deployed with them, and used for reconnaissance.

Vehicle	Price	Fuel	Load	Veh	Crew	Mnt	Night Vision	Radiological
		Type		Wt				
Milan	\$56,716	G, AvG,	775 kg	6.8	3	4	Passive IR, Image Intensification,	Enclosed
Turret		Α		tons			WL Spotlight	
BTM-208	\$54,109	G, AvG,	775 kg	7 tons	3	2	Passive IR, Image Intensification,	Enclosed
Turret		Α					WL Spotlight	
20mm	\$151,606	G, AvG,	775 kg	7.26	3	2	Passive IR, Image Intensification,	Enclosed
Turret		Α		tons			WL Spotlight	
Mortar	\$87,718	G, AvG,	775 kg	7.83	3	3	Passive IR, Image Intensification,	Enclosed
Turret		Α		tons			WL Spotlight	

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp			Arı	mor		
Milan Turret	204/82	51/21/5	250	132	Trtd	W(3)	TF4	TS4	TR4	HF5	HS3	HR3
BTM-208 Turret	200/80	50/20/5	250	132	Trtd	W(3)	TF3	TS3	TR3	HF5	HS3	HR3
20mm Turret	150/60	38/15/4	250	135	Trtd	W(3)	TF4	TS4	TR4	HF5	HS3	HR3
Mortar Turret	188/74	47/18/5	250	132	Trtd	W(3)	TF4	TS4	TR4	HF5	HS3	HR3

Milan Turret

Vehicle	Fire	Stabilization	Armament	Ammunition
	Control			
Milan Turret	+2	None	2xMilan II Launchers, AAT-F1 (C)	10xMilan II ATGM, 1200x7.62mm
BTM-208 Turret	+1	Basic	M-2HB, AAT-F1	1675x.50, 2700x7.62mm
20mm Turret	+2	Fair	20mm M-621 Autocannon, AAT-F1	500x20mm, 2000x7.62mm
Mortar Turret	+2	Basic	60mm Gun/Mortar, AAT-F1	45x60mm, 2700x7.62mm

VBC-90

Notes: The VBC-90 is a French-built, 6x6, armored car, intended for both domestic use and the export market. It features a driver's hatch on the front deck, and commander and gunner's hatches on the turret deck. It has an extremely high road speed,

but suffers in cross-country performance due to its size.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$184,343	D, A	300 kg	12.8 tons	3	5	Active/Passive IR	Enclosed

	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
ı	162/64	41/16	360	85	Trtd	W(3)	TF5 TS5 TR4 HF6 HS4 HR3

Fire Control	Stabilization	Armament	Ammunition
+2	Basic	90mm French Gun, AAT-F1, AAT-F1 (C)	45x90mm, 4000x7.62N

VBL

Notes: This French light armored is basically an armored jeep-like vehicle with a multipurpose weapon mount on the roof and a modular interior construction that allows it to fulfill a variety of roles. They were first place in French service in 1985, and were then sold to several other countries. They can be fitted with a bewildering variety of weapon options, from light machineguns to light autocannons, grenade launchers to ATGM launchers. Variants include the various weapon carriers (used as scout vehicles), a ground surveillance radar carrier, command vehicles, communications posts, and the ATGM carriers, which are covered in the Self-Propelled Guns section. There is a door on either side of the cab, a hatch on the roof for the gunner, hatches on the roof for the commander and gunner, and a door on the rear of the vehicle. The VBL is, in most cases, equipped with air conditioning and heating. The LRAC-89, while issued with the vehicle, is not on a weapon mount.

Twilight 2000 Notes: VBLs were being built at the rate of 40 per month at the time of the Twilight War and by 1995, over 1500 were in use by the French armed forces alone.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
LMG	\$28,930	D, A	400 kg	3.55 tons	2+1	1	Passive IR	Enclosed
HMG	\$33,545	D, A	400 kg	3.55 tons	2+1	1	Passive IR	Enclosed
20mm	\$36,566	D, A	400 kg	3.56 tons	2+1	1	Passive IR	Enclosed
30mm	\$42,775	D, A	400 kg	3.57 tons	2+1	1	Passive IR	Enclosed
GL	\$43,429	D, A	400 kg	3.56 tons	2+1	1	Passive IR	Enclosed
GSR Carrier	\$46,308	D, A	400 kg	3.43 tons	3	3	Passive IR	Enclosed
Command/Commo	\$34,372	D, A	400 kg	3.56 tons	3	3	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
LMG/HMG/20mm/GL	192/76	48/19/5	120	35	Stnd	W(2)	HF4 HS2 HR2
30mm	190/76	48/19/5	120	35	Stnd	W(2)	HF4 HS2 HR2
GSR Carrier	176/70	44/18/5	120	37	Stnd	W(2)	HF4 HS2 HR2
Command/Commo	188/74	47/19/5	120	35	Stnd	W(2)	HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
LMG/Command	None	None	AAT-52, AAT-F1, or MAG (C), LRAC-89	4000x7.5mm or 7.62mm, 12x89mm Rockets
HMG	None	None	M-2HB or BRG-15 (C), LRAC-89	2400x.50 or 2000x15.2mm, 12x89mm Rockets
20mm	None	None	20mm M-621 Autocannon, LRAC-89	1500x20mm, 12x89mm Rockets
30mm	None	None	30mm ASP-30 or M-781 Autocannon, LRAC-89	1000x30mm, 12x89mm Rockets
GL	None	None	Mk 19 or HK GMG AGL, LRAC-89	750x40mm Grenades, 12x89mm Rockets
GSR Carrier/Commo	None	None	AAT-52, AAT-F1, or MAG (C)	2000x7.62mm

VBL LWB

Notes: This is a stretched version of the Panhard VBL scout car. The LWB version has a crew of up to 4 and carries more ammunition, and in some cases, heavier weapons. It is otherwise the same as the standard VBL M-11. The LWB VBL has a total of 4 roof hatches, two in the front and two in the rear.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Patrol	\$32,622	D, A	450 kg	3.82 tons	2+2	2	Passive IR	Enclosed
Scout 1	\$48,888	D, A	450 kg	3.93 tons	2+2	2	Passive IR	Enclosed
Scout 2	\$44,718	D, A	450 kg	3.93 tons	2+2	2	Passive IR	Enclosed

Command	\$33,122	D, A	450 kg	3.82 tons	4	4	Passive IR	Enclosed
GSR/ASR	\$50,433	D, A	450 kg	3.8 tons	4	4	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Patrol	178/72	45/18/5	130	34	Stnd	W(2)	HF4 HS2 HR2
Scout 1/2, Command	174/70	44/18/5	130	34	CiH	W(2)	TF3 TS3 TR3 HF4 HS2 HR2
GSR/ASR	162/64	41/16/4	130	36	Stnd	W(2)	HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Patrol	None	None	AAT-F1 or MAG (C), LRAC-89	3300x7.62mm, 12x89mm Rockets
Scout 1	+2	Fair	20mm M-621 Autocannon, AAT-F1, LRAC-89	600x20mm, 1600x7.62mm, 12x89mm Rockets
Scout 2	+2	Fair	M-2HB, AAT-F1, LRAC-89	1000x.50, 1600x7.62mm, 12x89mm Rockets
Command	None	None	AAT-F1 or MAG (C)	2950x7.62mm
GSR/ASR	None	None	AAT-F1 or MAG (C)	3000x7.62mm

SK-1

Notes: This former East German armored patrol vehicle was used exclusively by the East German Police and not used by the army. Though similar in appearance to the Russian BA-64, the SK-1 is an independent development and much bigger than the BA-64. The SK-1 is the chassis of a Robur Garant 30K truck fitted with an armored body and a kight turret. There is a door in the rear of the hull for the crew to enter, and a hatch on top of the turret. The turret has several vision slits and a hole for a machinegun. With the reunification of Germany, most of the SK-1s were scrapped, except for some sent to museums or private collectors.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$9,448	D, A	300 kg	5.4 tons	2+3	2	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
120/48	30/12	70	16	Trtd	W(2)	TF2 TS2 TR2 HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	MG-34	900x8mm

Spähpanzer Luchs

Notes: This vehicle came out of a German Army requirement in the mid-1960s for a new generation of wheeled armored vehicles. The 6x6 version was accepted in service as the Fuchs, the 4x4 version was not placed into production, and the 8x8 version became the Luchs. The Luchs is a light armored car for use in scouting. The armament is light and best suited for suppressive fire, and it has enough speed for quick getaways, but the Luchs is not built for sustained combat, though frontal armor is heavy for a vehicle of its type. The turret is literally festooned with vision blocks, with 12 provided for all-around vision. The driver is in the front of the hull on the left; there is a position for a second driver in the center of the vehicle about ¾ of the way back, but in practice this position was normally filled with up to 150 kg of supplies and extra ammunition and the second driver left home. On the turret are two hatches for the commander and gunner. There is a small door in the left of the hull between the second and third wheels.

Twilight 2000 Notes: About half of the Luchs in service at the time of the Twilight War were equipped with thermal imagers, and some were also equipped with video cameras and shotgun microphones along with recording equipment and radio links to higher headquarters.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Luchs	\$148,977	D, G, AvG, A	400 kg	20 tons	4	5	Passive IR	Shielded
Luchs A2	\$228,977	D, G, AvG, A	400 kg	20 tons	4	5	Passive IR, Thermal Imaging	Shielded

1	Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
	Luchs/Luchs A2	134/54	34/14/4	500	120	Trtd	W(6)	TF10 TS8 TR8 HF12 HS7 HR6

1	Vehicle	Fire Control	Stabilization	Armament	Ammunition
	Luchs/Luchs A2	+2	Fair	20mm Rh-202, MG-3 (C)	600x20mm, 1000x7.62mm

TH-200/400/600

Notes: The TH-200/400/600 series are German scout cars used for battlefield reconnaissance. Appliqué armor is available that increases the TF and HF by 8, TS and HS by 6, and TR and HR by 4, and there are also lugs for reactive armor on the HF, TF, and TS. The series is equipped with a video camera system for surveillance, and data from this camera may be sent over radio to higher headquarters. Some of them are also equipped with a laser designator. It has full radiological protection and night vision. The German Army and several export customers are currently evaluating this vehicle range.

Twilight 2000 Notes: As this vehicle has just entered production in 1997, quantities of them were never high.

Vehicle	Price	Fuel	Load	Veh	Crew	Mnt	Night Vision	Radiological
		Type		Wt				
TH-200	\$259,641	D, A	400 kg	9.25	4	3	Thermal Imaging, Image	Shielded
				tons			Intensification, Passive IR	
TH-400	\$319,905	D, A	400 kg	24.5	4	7	Thermal Imaging, Image	Shielded
				tons			Intensification, Passive IR	
TH-800	\$361,411	D, A	400 kg	35 tons	4	9	Thermal Imaging, Image	Shielded
							Intensification, Passive IR	

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
TH-200	170/68	43/17	520	76	Trtd	W(4)	TF5 TS4 TR3 HF6 HS3 HR2
TH-400	144/58	36/15	520	154	Trtd	W(4)	TF19 TS12 TR11 HF24 HS10 HR8

Vehicle	Fire Control	Stabilization	Armament	Ammunition
TH-200	+4	Good	90mm Gun, MG-3	30x90mm, 2000x7.62mm
TH-400	+4	Good	105mm M-68 Gun, MG-3	45x105mm, 4000x7.62mm
TH-800	+4	Good	120mm Gun, MG-3	50x120mm, 5000x7.62mm

MOWAG Eagle

Notes: This vehicle is an armored version of the HMMWV found in the *Twilight 2000 Version 2.2* rules. The Eagle is used by Switzerland, and Denmark. The armor consists of an inner layer of ballistic ceramic and an outer layer of aluminum. This provides protection against most small arms, but does not stop heavier weapons. The windows are also bullet resistant. The vehicle is only slightly larger in size than the standard HMMWV and can be transported inside the same sorts of aircraft. The commander has a hatch in the roof. To the left and rear of the commander's hatch is a cupola with a weapon mount (NMT/NHT equivalent). Normal armament for Swiss and Danish vehicles is a MAG machinegun. The weapon can be aimed and fired from inside the vehicle, and has night vision. On the front of the vehicle is a winch with a 5.4-ton capacity.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$108,866	D, G, A	1.2 tons	5.1 tons	4+2	2	Thermal Imaging, Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
212/84	53/21	95	57	CiH	W(3)	TF3 TS3 TR2 HF5 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition	
None	None	MAG	2000x7.62mm	

OT-65/FUG

Notes: This scout car is used by the Czechs, Poles, Hungarians, and Bulgarians in place of the BRDM-1, and in some cases, the BRDM-2. It can easily be mistaken for the BRDM-1, but has a somewhat different shape (particularly at the front end); the engine is at the rear instead of the front, and there are two waterjets at the rear instead of one. There is also only one weapon mount instead of the three the BRDM-1 has. The OT-65 is also slightly larger, carrying one additional passenger.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
OT-65	\$23,390	D, A	700 kg	7 tons	2+4	2	Active IR	Enclosed
OT-65A	\$23,420	D, A	700 kg	7.2 tons	2+4	2	Active IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
OT-65	120/48	30/12/3	200	29	Stnd	W(3)	HF5 HS3 HR2
OT-65A	118/48	30/12/3	200	30	Stnd	W(3)	TF2 TS2 TR2 HF5 HS3 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
OT-65	None	None	SGM (C)	1250x7.62mm
OT-65A	None	None	SGM	1250x7.62mm

Light RAM

Notes: This is a smaller, scout/recon version of the Israeli RAM personnel carrier. The light RAM can be carried in threes inside a C-130, or one inside a CH-53 helicopter. The hull is shortened, and the sides raised, to provide maximum protection to standing occupants. The light RAM has large side doors for entry.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Patrol	\$44,188	D, A	1.2 tons	4.5 tons	4+2	2	Headlights	Enclosed
TOW Carrier	\$27,274	D, A	1.2 tons	4.12 tons	4	4	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Patrol/TOW Carrier	200/80	50/20	160	42	Stnd	W(2)	HF2 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition		
Patrol	None	None	M-2HB or Mk 19 AGL (C), 3xMAG	1500x.50 or 300x40mm, 5000x7.62mm		
TOW Carrier	None	None	MAG (C), TOW II Launcher	1250x7.62mm, 8xTOW II ATGM		

Gorgona

Notes: Described by its crews as an "armored sports car," the Gorgona was designed for rapid road reconnaissance and some off-road work. It is basically an automobile with armor, night vision devices, amphibious capability, and armament. The weapon mount on the roof above the commander's position can mount any weapon designed for an NLT or NMT; a typical weapon is shown below. This weapon can be aimed and fired by the commander without having to expose himself. The engine is in the rear and there is a large trunk up front. The windows are of bullet-resistant glass. The only users of this vehicle are the Italian Carabinieri, Oman, and Saudi Arabia.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$24.757	D, G, A	300 kg	3 tons	2+2	1	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
230/92	58/23/6	70	35	Stnd	W(2)	HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	MG-43/59 (C)	500x7.62mm

Centauro B1

Notes: There are two hatches on the turret for the gunner and commander, and one on the front deck for the driver. The Centauro can ford 1.5 meters with no preparation. The vehicle has an independent auxiliary power unit for basic electrical needs, thus saving fuel while idling. The Centauro is equipped with NBC protective filtration. The gunner and commander share a stabilized thermal imager (both may use it at the same time).

Due to the Centauro's turret, any turret hit that results in an ammunition explosion does not automatically kill the crew and destroy the vehicle. Instead, consider all turret weapons, sensors, and electronics to be damaged and inoperative. Then apply 50 points of concussion damage to the commander, gunner, and loader. (Hull hits which cause an ammunition explosion still destroy the vehicle and kill the crew; 14 rounds are stored in the turret, and 26 in the hull.)

There are attachment lugs on the turret front and hull front for reactive armor. The Centauro is normally found only in airborne, air assault, and light infantry units.

Price	Fuel	Load	Veh	Crew	Mnt	Night Vision	Radiological
	Type		Wt				
\$284,417	D, A	400 kg	25 tons	4	7	WL Spotlight, Passive IR. Thermal Imaging,	Shielded
		_				Image Intensification	

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
152/62	38/16	540	175	Trtd	W(8)	TF11 TS11 TR10 HF14 HS9 HR7

Fire Control	Stabilization	Armament	Ammunition		
+4	Good	105mm gun, MG-42/59, M-2HB (C), M-2HB (L)	40x105mm, 2000x7.62mm, 1000x.50		

Lizard F333E

Notes: The Lizard is a very light and basic armored car that was meant primarily as a liaison and reconnaissance vehicle. The vehicle is little more than an armored jeep, but has some extra utility, able to mount machineguns, recoilless rifles, or light ATGM. The vehicle has extra mine protection, and the floor is treated as having the same armor protection as the hull front. Only 15 prototypes were built.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Heavy MG	\$24,361	G, A	250 kg	2.6 tons	3	2	Passive IR	Enclosed
Light MG	\$21,090	G, A	250 kg	2.6 tons	3	2	Passive IR	Enclosed
Auto Rifle	\$20,215	G, A	250 kg	2.6 tons	3	2	Passive IR	Enclosed
Recoilless Rifle	\$52,543	G, A	250 kg	3.33 tons	3	2	Passive IR	Enclosed
ATGM	\$63,118	G, A	250 kg	2.6 tons	3	3	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Heavy MG	296/118	74/30	100	84	Stnd	W(2)	HF3 HS3 HR2
Light MG	296/118	74/30	100	84	Stnd	W(2)	HF3 HS3 HR2
Auto Rifle	296/118	74/30	100	84	Stnd	W(2)	HF3 HS3 HR2
Recoilless Rifle	246/98	62/25	100	84	Stnd	W(2)	HF3 HS3 HR2
ATGM	296/118	74/30	100	84	Stnd	W(2)	HF3 HS3 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition

Heavy MG	None	None	M-2HB (C)	500x.50
Light MG	None	None	MG-42/59 (C)	800x7.62mm
Auto Rifles	None	None	Minimi (C)	1100x5.56mm
Recoilless Rifle	None	None	Folgore (C)	8x80mm Rockets
ATGM	None	None	2xMilan Launchers	6xMilan ATGM

R3

Notes: This vehicle looks like something out a science fiction movie, with its long, low, slender silhouette. The chassis is based on that of the Gorgona, while the body is long and wedge shaped, with armor sloped on all sides. The driver is at the front with windows directly in front and to the sides; he has a hatch on top of his compartment. The commander's position is to the rear and right of the driver's position. To the rear is a hatchway that can be fitted with a variety of weapons stations or light turrets. On each side of the hull is another door, and to the rear of those doors is a firing port with vision block.

The T 12.7 FA has an externally mounted M-2HB machinegun that may be aimed and fired from within the vehicle. The T 7.62 FA is the same, but has a lighter machinegun. The T 20 FA-HS is also similar, but uses a 20mm autocannon. The Folgore x2 FA has two Folgore recoilless rifles and a light machinegun; these cannot be aimed or fired from within the vehicle. (The Folgores are treated as being mounted on a tripod with optronic sight.) The T 106 x2 FA is similar to the Folgore vehicle, but uses two M-40A2 106mm recoilless rifles and has no machinegun. As might be guessed, the TOW FA has a TOW II system.

The R3 was never actually put into production.

		, ,	•						
,	Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
	T 12.7 FA	\$24,081	D, A	300 kg	3.5 tons	3+2	2	Passive IR	Shielded
	T 7.62 FA	\$19,975	D, A	300 kg	3.47 tons	3+2	2	Passive IR	Shielded
	T 20 FA-HS	\$28,386	D, A	300 kg	3.5 tons	3+2	2	Passive IR	Shielded
	Folgore x2 FA	\$59,535	D, A	300 kg	3.5 tons	3+2	2	Passive IR	Shielded
	T 106 x2 FA	\$66,620	D, A	300 kg	3.5 tons	3+2	2	Passive IR	Shielded
	TOW FA	\$47,224	D, A	300 kg	3.5 tons	3+2	3	Passive IR	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
T 12.7 FA	206/82	52/21/5	80	34	CiH	W(2)	TF2 TS2 TR2 HF4 HS3 HR3
T 7.62 FA	206/82	52/21/5	80	34	CiH	W(2)	TF2 TS2 TR2 HF4 HS3 HR3
T 20 FA-HS	206/82	52/21/5	80	34	CiH	W(2)	TF2 TS2 TR2 HF4 HS3 HR3
Folgore x2 FA	206/82	52/21/5	80	34	CiH	W(2)	TF1 TS1 TR1 HF4 HS3 HR3
T 106 x2 FA	206/82	52/21/5	80	34	CiH	W(2)	TF1 TS1 TR1 HF4 HS3 HR3
TOW FA	206/82	52/21/5	80	34	CiH	W(2)	TF1 TS1 TR1 HF4 HS3 HR3

Vehicle	Fire	Stabilization	Armament	Ammunition
	Control			
T 12.7 FA	+1	Basic	M-2HB	500x.50
T 7.62 FA	+1	Basic	MG-42/59	500x7.62mm
T 20 FA-HS	+1	Basic	20mm Rh-202 Autocannon	300x20mm
Folgore x2 FA	+1	None	2xFolgore Recoilless Rifles, MG-42/59	10x80mm Rockets, 400x7.62mm
T 106 x2 FA	+1	None	2xM-40A2 106mm Recoilless Rifles	10x106mm Rockets
TOW FA	None	None	TOW II Launcher	8xTOW II ATGM

<u>Type 82</u>

Notes: This Japanese vehicle is a command and communications vehicle on the Type 87 reconnaissance vehicle chassis. In this hull, the vehicle has no turret; instead, the Type 82 has a raised superstructure. The command post version has at least 4 radios, and the communications vehicle can literally have as may radios as can fit in the vehicle, often carrying 8 or more. Command vehicles are typically fitted with an inertial land navigations system and battle management computers, as well as map boards and other electronics, while communications have many antennas and rolls of wire and other relay devices. The driver sits to the right front, and one of the radio operators to the left front, and there are two hatches in the roof of the troop compartment, one with a heavy machinegun mount, and one with a light/medium machinegun mount. There is also a door in the rear of the hull, and two small windows in the each side of the hull.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$121,818	D, A	1.6 tons	13.5 tons	8	6	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
168/68	42/17	415	96	Stnd	W(4)	HF11 HS6 HR5

Fire Control	Fire Control Stabilization		Ammunition	
None	None	MAG, M-2HB (C)	300x.50, 1350x7.62mm	

<u>Type 87</u>

Notes: This is a Japanese vehicle designed for reconnaissance and scouting, as well as spotting for field artillery. It is well appointed with observation devices, as well as extra radios, an inertial land navigation system, and some have been upgraded with a fire solution computer. The Type 87 has a laser designator for guiding missiles and smart weapons. The driver sits in the right front of the hull, there are hatches on the turret roof for the commander and gunner, and the sides of the turret have bullet resistant observation windows. The radio operator has a hatch on the front left of the hull.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$114,552	D, A	1 ton	15 tons	5	4	Passive IR, Image Intensifier	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
158/64	40/16	415	96	Trtd	W(4)	TF9 TS7 TR7 HF11 HS6 HR5

Fire Control	Fire Control Stabilization		Ammunition	
+2	Fair	25mm KBA, MAG	800x25mm, 3000x7.62mm	

DN-V

Notes: The Bufalo is a sister vehicle to the Toro, that appears to be a larger version of the LAV-150, topped with the turret of the old US M-8 self-propelled howitzer. The turret is open topped, and there is a door on each side of the hull below the turret for crew access.

The Toro scout vehicle appears to be based on the LAV-150 series of vehicles. The vehicle is equipped with a turret mounting a light autocannon and machineguns. There is a bank of four smoke grenade launchers on each side of the turret. The vehicle is somewhat larger than the LAV-150.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Bufalo	\$114,136	D, A	550 kg	11 tons	4	3	Passive IR	Enclosed
Toro	\$46,932	D, A	800 kg	10.5 tons	2+6	3	Passive IR	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Bufalo	172/68	43/17/5	320	96	Trtd	W(3)	TF3 TS3 TR3 HF3 HS3 HR2
Toro	178/70	45/18/5	320	96	Trtd	W(3)	TF3 TS3 TR3 HF3 HS3 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Bufalo	+1	Basic	75mm Howitzer, M-2HB (C)	50x75mm, 500x.50
Toro	+1	Basic	20mm KAA Autocannon, MAG, HK-21 (C)	425x20mm, 3400x7.62mm

DN-VI Lince

Notes: This is a Mexican scout car reminiscent in appearance to the French Renault VBL. It is a basic scout car armed with a single pintle-mounted machinegun, and is used for light scouting duties and fire support, as well as artillery spotting. Unlike the VBL, the Lince carries a three-man crew and the roof hatch is in the center of the vehicle.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$28,610	D, A	450 kg	4.19 tons	3	1	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
170/68	43/17/5	140	35	Stnd	W(2)	HF6 HS3 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	HK-21 (C)	3500x7.62mm

<u>Cheeta</u>

Notes: These Pakistani light armored vehicles are perhaps an idea of what can be done with an armored "Technical" type vehicle. They are 4x2 trucks fitted with an armored body and a variety of weapons mounts. Accommodations are basic, with a door on the rear of the vehicle and doors on either side of the cab. No night vision is installed and there is no NBC system or radiation shielding.

Twilight 2000 Notes: The vehicles were originally designed for training, to save wear and tear on actual combat vehicles, but they were thrown into action against Indian forces to replace vehicle losses and bolster numbers.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
TOW Carrier	\$25,890	G, D, A	500 kg	4.8 tons	3	2	Headlights	Enclosed
RBS-70 Carrier	\$28,246	G, D, A	500 kg	4.85 tons	3	2	Headlights	Enclosed
Anza Carrier	\$54,561	G, D, A	500 kg	4.85 tons	3	2	Headlights	Enclosed
MG Carrier	\$21,921	G, D, A	500 kg	5 tons	3	1	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
(All)	230/92	58/23	90	44	Stnd	W(2)	HF2 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
TOW Carrier	None	None	TOW II Launcher	8xTOW II ATGM
RBS-70 Carrier	None	None	RBS-70 SAM Launcher	8xRBS-70 Missiles
Anza Carrier	Anza Carrier None		4xHN-5 SAM Launchers	8xHN-5 Missiles
MG Carrier	None	None	KPV	2200x14.5mm

Chaimite V-400

Notes: This is a Chaimite Mk 1 fitted with a turret mounting a 90mm NATO gun. The passenger compartment is taken up with the larger turret and ammunition for the main gun. The vehicle is otherwise like the Chaimite Mk 1, though it has no rear deck hatches.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$201,710	D, A	500 kg	8.5 tons	4	4	Passive IR, Image Intensification	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
176/70	44/18/5	300	77	Trtd	W(3)	TF3 TS3 TR3 HF3 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition	
+2	Fair	90mm Gun, MAG, MAG (C)	52x90mm, 4750x7.62mm	

<u>ABI</u>

Notes: This is a light wheeled armored car operated by Romania for scouting purposes. It is similar in appearance and concept to the US Cadillac-Gage Ranger armored car, and it is also used for airfield protection and for security at places like reactors and ammunition depots. The driver is on the front left side and the commander to his right. Both are behind bullet resistant windshields. This window can be covered by an armored flap. The commander has a firing port to the right of the windshield. The gunner sits in a small turret on the roof, and has a hatch. The scout/security team enters and exits through two doors in the rear of the hull; each of these doors has a firing port. There are also two firing ports in either side of the hull.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$26,239	D, A	500 kg	5.8 tons	2+4	2	Active/Passive IR, WL Searchlight	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
114/46	29/12	107	25	Trtd	W(3)	TF2 TS2 TR2 HF5 HS2 HR2

Fire Control Stabilization		Armament	Ammunition	
+1	Basic	DShK, PKT	700x12.7mm, 1400x7.62mm	

BA-64

Notes: This light Russian armored car was designed during World War 2, based on the chassis of the GAZ-64 light truck and, to a certain extent, on captured German Sd Kfz 221 armored cars. The BA-64 has a surprising amount of armor protection for its light weight, and a good amount of mobility and maneuverability. It was not meant to do any major fighting, but instead for reconnaissance, command, and convoy escort duties. The "D" model brought a wider track (to combat the tendency for the vehicle to tip on rough terrain or in tight turns), and a larger turret with heavier armament and powered traverse. By 2000, the BA-64 was used only by Yugoslavia, China, and North Korea, and in China, they were generally used only in small numbers by local police forces instead of the Army.

Twilight 2000 Notes: The BA-64 was nicknamed the Bobbie by US, British, and Australian troops that encountered them in North Korean hands during the 1950-53 Korean War; this nickname came back during the Twilight War.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
BA-64	\$9,873	G, A	200 kg	2.36 tons	2	1	Headlights	Enclosed
BA-64A	\$9,888	G, A	200 kg	2.43 tons	2	1	Headlights	Enclosed
BA-64D	\$11,843	G, A	200 kg	2.43 tons	2	1	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
BA-64	172/68	43/17	90	36	CiH	W(2)	TF3 TS3 TR3 HF4 HS2 HR2
BA-64B/D	180/72	45/18	90	39	CiH	W(2)	TF3 TS3 TR3 HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
BA-64/BA-64A	None	None	DT	1260x7.62mm
BA-64D	None	None	DShK	750x12.7mm

BRDM-1

Notes: This vehicle replaced earlier vehicles like the BA-64 and a host of small and medium jeep-like vehicles in Russian service for scouting purposes, and was itself replaced in service by most countries by the later BRDM-2 and 4 series vehicles. It is a basic armored car with a pintle-mounted weapon (or sometimes up to 3). The BRDM-1 features a characteristic set of retractable belly wheels to increase mobility over rough ground. It is a highly adaptable vehicle that has been modified into a number of variants. Long out of the service of most former Pact countries, it is still used in 2000 by Afghanistan, Albania, Bulgaria, Cuba, Vietnam, and several African nations.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$43,531	G, A	500 kg	5.6 tons	2+3	2	Active IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
138/82	25/15/3	150	52	Stnd	W(4)	HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	DShK, 2xPKT	750x12.7mm, 1260x7.62mm

BRDM-2

Notes: This replacement for the BRDM-1 was first seen in public in 1966. It features a more powerful engine for better speed, a better suspension for improved off-road maneuverability, heavier armament in a fully enclosed turret, a more powerful waterjet for higher amphibious speeds, an NBC system, and improved night vision equipment. Like the BRDM-1, the chassis is very adaptable and has spawned numerous variants. The turret uses manual traverse and elevation and can be a bit slow in a tense situation. The BRDM-2 is or was used in its history by 45 countries and is quite a common sight throughout the world.

The BRDM-2-RKhb is a BRDM-2 fitted out as an NBC reconnaissance vehicle. In this role, there are two dispensers at the back of the vehicle for marking pennants. The vehicle has an optical chemical sniffer, a Geiger counter, a computerized land navigation system, and extra radios.

The BRDM-2U is a command version of the BRDM-2, normally found in artillery units and in scout regiments. The turret is removed, and on the roof is a 5kW generator to power the 4 radios and the battle control computers.

In 2001, Ukraine announced the development of an updated version of the BRDM-2. Chief among these updated is the replacement of the engine with a slightly more powerful diesel engine; while this may increase performance somewhat, the fuel savings are enormous. The engine also has more torque and a one-third longer service life. The new engine makes the vehicle longer, but armor protection is also slightly improved.

Twilight 2000 Notes: The BRDM 2M does not exist in the Twilight 2000 timeline.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
BRDM-2	\$57,700	G, AvG, A	600 kg	7 tons	2+2	2	Passive IR	Shielded
BRDM-2-RKhb	\$60,197	G, AvG, A	600 kg	7 tons	4	4	Image Intensification	Shielded

BRDM-2U	\$95,982	G, AvG, A	1 ton	7.5 tons	5	4	Image Intensification	Shielded
BRDM 2M	\$64,143	D, A	600 kg	7.9 tons	2+2	3	Image Intensification	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
BRDM-2/RKhb	150/60	38/15/4	290	81	CiH	W(4)	TF5 TS4 TR3 HF6 HS3 HR2
BRDM-2U	150/60	38/15/4	290	81	Stnd	W(4)	HF6 HS3 HR2
BRDM-2M	150/60	40/15/4	290	54	CiH	W(4)	TF 5 TS4 TR3 HF8 HS4 HR4

Vehicle	Fire Control	Stabilization	Armament	Ammunition
BRDM-2	+2	Basic	KPV, PKT	500x14.5mm, 2000x7.62mm
BRDM-2-RKhb	+2	Basic	2xPKT	2000x7.62mm
BRDM-2U	None	None	PK (C)	1000x7.62mm
BRDM-2M	+2	Basic	KPV, PKT	500x14.5mm, 2000x7.62mm

GAZ-39344

Notes: This light armored car is in use by Russian police, paramilitary, and KGB units. It is primarily used for internal security and riot control and is a replacement for the BRDM-2 in those roles. On either side of the hull is a large door for crew access. Two firing ports are on the right side of the hull, one on either side of the door, and one firing port is in the left side of the hull. On the roof is the same turret as mounted on the BTR-80, with the addition of a searchlight. The engine is at the rear of the vehicle. All windows are bullet resistant. The GAZ-39344 has air conditioning, heating, a land navigation system, and blue flashing lights. Twilight 2000 Notes: This vehicle was never produced.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$29,962	D, A	2 tons	7 tons	2+4	2	Passive IR, WL/IR Searchlight	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
146/58	37/15	145	45	CiH	W(3)	TF4 TS4 TR4 HF2 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	KPV, PKT	500x14.5mm, 2000x7.62mm

Kerametal Limited Alligator 4x4

None

None

Notes: This is a common vehicle, which has been sold to numerous countries in what was formerly Warsaw Pact-held Europe. It has also seen use by the UN in their numerous peacekeeping operations across the globe. The vehicle is amphibious at one-quarter its cross-country speed, is NBC-sealed, and is fast. The Alligator is usually encountered as a scout or patrol vehicle depending upon its role. It can be equipped with explosive reactive armor (HF, HS) upon request; without it, the vehicle is designed to shield against shell fragments and small arms fire. There is a firing port on each side.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$14,139	D, A	500 kg	6.5 tons	2+4	2	Headlights	Shielded

Tr Mov	Com	Mov	Fuel Cap	Fuel Cons	Conf	ig	Susp	Armor
206/82	206/82 52/21		150	70 Stnd		d	W(2)	HF4 HS2 HR2
Fire Control		Stak	oilization	Armam	ient		Am	nmunition

PKT or NSVT (C)

1000x7.62mm or 12.7mm

Valuk ARSV

Notes: This is the scout/recon variant of the Valuk armored personnel carrier. (ARSV=Armored Reconnaissance and Scout Vehicle.) In this version, the main weapon is on an elevated mount to give it a hull-down capability, and the weapon is of a higher caliber. A missile launcher has been added, courtesy of Israel, who also sold it the autocannon. The passenger area carries fewer troops and more ammunition and surveillance equipment than the APC Valuk. As the turret is larger, most of the deck hatches have been eliminated.

Twilight 2000 Notes: This vehicle does not exist.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$231,965	D, A	1.4 tons	13.75 tons	3+6	6	Passive IR, Image Intensification	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
114/46	29/12/3	275	58	CiH	W(4)	TF2 TS2 TR2 HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition		
+4	Good	35mm Bushmaster III autocannon, PKT, TOW II Launcher	830x35mm, 3500x7.62mm, 8xTOW II ATGM		

<u>Duiker</u>

Notes: This version of the Casspir APC is an armored fuel tanker. Instead of a passenger space, it has a 5000-liter armored fuel tank in the rear. The roof of the cab has a weapon mount. The Duiker is protected from mines in the same manner as the Casspir. This vehicle is used by South Africa, Namibia, and Peru.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$13,385	D, A	5000 L + 300 kg	11.1 tons	3	3	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Cons Config		Armor	
130/52	33/13	220	62	Stnd	W(3)	HF3 HS2 HR2	

Fire Control	Fire Control Stabilization		Ammunition		
None	None	SS-77 (C)	1000x7.62mm		

RG-32 Scout Weapons Carrier

Notes: This is a version of the military 4x4 diesel-powered RG-32 Scout armored personnel carrier. In this version, the back half of the vehicle is cut away to form a flatbed; on this flatbed is mounted one of a variety of heavy weapons. The roof hatch is moved to the rear seat and also mounts one or two of a variety of weapons. The vehicle has additional armor protection; including antimine features that allow it to withstand mine blasts with the equivalent of twice the normal armor value, and the suspension is one greater against mine blasts. Note that the heavy weapons platform is not under armor, though it is protected against mine blasts.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
MRL Carrier	\$114,973	D, A	700 kg	4 tons	2+3	2	Headlights	Enclosed
Recoilless Rifle Carrier	\$112,808	D, A	700 kg	3.94 tons	2+3	2	Headlights	Enclosed
Mortar Carrier	\$68,410	D, A	700 kg	3.55 tons	2+3	2	Headlights	Enclosed
Autocannon Carrier	\$44,922	D, A	700 kg	3.66 tons	2+3	2	Headlights	Enclosed
ATGM Carrier	\$53,356	D, A	700 kg	3.6 tons	2+3	3	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
(All)	242/96	61/24	125	49	Stnd	W(3)	HF2 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
MRL Carrier	None	None	12-Round 107mm MRL; 2xMG-4 or 2xMGL-40 or AGL Striker or M-2HB or 20mm KAA (C)	24x107mm Rockets; 650x7.62mm or 125x40mm or 400x.50 or 250x20mm
Recoilless Rifle Carrier	None	None	M-40A2 106mm Recoilless Carrier; 2xMG-4 or 2xMGL-40 or AGL Striker or M-2HB or 20mm KAA (C)	28x106mm Rockets; 650x7.62mm or 125x40mm or 400x.50 or 250x20mm

Mortar Carrier	None	None	60mm Gun/Mortar or Mortar; 2xMG-4 or 2xMGL-40 or AGL Striker or M-2HB or 20mm KAA (C)	50x60mm; 650x7.62mm or 125x40mm or 400x.50 or 250x20mm
Autocannon Carrier	None	None	2x20mm KAA; 2xMG-4 or 2xMGL-40 or AGL Striker or M-2HB or 20mm KAA (C)	400x20mm; 650x7.62mm or 125x40mm or 400x.50 or 250x20mm
ATGM Carrier	None	None	4-Round ZT-3 Launcher; 2xMG-4 or 2xMGL-40 or AGL Striker or M-2HB or 20mm KAA (C)	16xZT-3 ATGM; 650x7.62mm or 125x40mm or 400x.50 or 250x20mm

Rinkhals

Notes: This is a South African armored ambulance based on the SAMIL 50 truck. The Rinkhals is mine protected; the vehicle is considered to have double its armor rating from mine attacks, and the suspension rating is one higher when considering mine attacks. The vehicle is otherwise an armored truck, though it is appointed with lockers for medical supplies, stretchers, oxygen gear, and medical monitors. The vehicle's higher and beefier suspension allows it better cross-country performance than its SAMIL 50 base. Crew access is through a rear door or two doors on the cab. Three firing ports are on each side of the passenger compartment, and there is a roof hatch with a weapon mount.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$17,477	D, A	3.3 tons	9 tons	3+3 stretchers+4	5	Headlights	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
158/64	40/16	400	57	Stnd	W(3)	HF2 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition	
None	None	SS-77 (C)	500x7.62mm	

Rooikat

Notes: The Rooikat armored car was produced in South Africa in the late 1980s. Designed for deep reconnaissance and raiding operations of the African Veldt, much emphasis was placed on mobility and endurance, even down to the 76mm Cockerill main gun instead of the more usual 105mm (48 reloads instead of 25-35 at most). It is highly mine-resistant and can lose two wheels, even on the same side (it has eight total), and maintain top speed.

The Rooikat 105 was designed for export, and the only sales were to Abu Dhabi and Malaysia. The vehicle is basically the same as the normal Rooikat, with the exception of the mounting of a 105mm NATO gun instead of the normal 76mm, and a few other minor improvements.

The Rooikat 35 is a standard Rooikat 76 chassis with the turret replaced with one mounting a 35mm autocannon. It was designed for scouting and escort duties as well as infantry fire support. A pod with 4 ZT-3 Swift ATGM launchers is mounted on the turret roof on the left side. The missiles can be aimed and fired from within the vehicle, but the crew must expose the upper body to reload missiles. This was designed primarily as a proof-of-concept vehicle and not meant for actual production.

Twilight 2000 Notes: Remaining examples of the Rooikat 105 were requisitioned from the factories and depots when the Twilight War picked up and used by South African forces to replace combat losses. The Rooikat 35 was also placed into production, in order to serve as a scout and infantry support vehicle, as well as a tank destroyer.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological

Rooikat 76	\$181,763	D, G, A	700 kg	28 tons	4	8	Passive IR, Image Intensification	Enclosed
Rooikat 105	\$282,191	D, G, A	700 kg	28.5 tons	4	8	Passive IR, Thermal Imaging	Enclosed
Rooikat 35/ZT-3	\$125,000 (R/-)	D, G, A	700 kg	26 tons	3	6	Passive IR, Thermal Imaging	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Rooikat 76	174/70	44/18	540	208	Trtd	W(8)	TF16 TS8 TR8 HF20 HS7 HR6
Rooikat 105	164/66	41/17	540	194	Trtd	W(8)	TF16 TS8 TR8 HF20 HS7 HR6
Rooikat 35/ZT-3	174/70	44/18	540	194	Trtd	W(8)	TF16 TS8 TR8 HF20 HS7 HR6

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Rooikat 76	+2	Good	76mm GT-4 Gun, MG-4, MG-4 (C)	48x76mm, 3600x7.62mm
Rooikat 105	+3	Good	105mm GT-7 Gun, MG-4, MG-4 (C)	32x105mm, 3200x7.62mm
Rooikat 35/ZT-3	+4	Good	35mm Bushmaster III autocannon, MG-4, 4xZT-3 Launchers	200x35mm, 3600x7.62mm, 8xZT-3 ATGM

VEC Cavalry Scout Vehicle

Notes: The VEC CSV is the standard reconnaissance vehicle of the Spanish military. It has had no known exports. The standard version is fitted with a 25mm Bushmaster cannon of the same type on the Bradley and LAV-25; however, there is another, rarer version that mounts a 90mm French gun, using the same turret as a Panhard AML-90. The engine of this vehicle is very quiet, with baffles in the exhaust system and soundproofing for the engine compartment to quiet the vehicle to about 60% of normal engine noise for a vehicle of this type and size. The VEC has a 4.5-ton capacity winch at the front of the vehicle. The driver has a hatch on the front left deck, and the commander and gunner have hatches on the turret deck. There is a hatch on the rear right face for the crew as well, as well as two hatches in the roof of the passenger compartment. The VEC is fitted with extra radios (3 in all) and a computerized land navigation system. The VEC also has air conditioning and heating for the crew.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
VEC-25	\$62,760	D, A	800 kg	13.75 tons	3+2	4	Image Intensification	Shielded
VEC-90	\$187,058	D, A	800 kg	16.6 tons	3+2	5	Image Intensification	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
VEC-25	186/74	47/19/5	400	114	Trtd	W(3)	TF10Sp TS7 TR7 HF12Sp HS6 HR5
VEC-90	166/66	42/17/4	400	114	Trtd	W(3)	TF3 TS3 TR3 HF12Sp HS6 HR5

Vehicle	Fire Control	Stabilization	Armament	Ammunition
VEC-25	+2	Fair	25mm KBA or Bushmaster Autocannon, MG- 3, M-2HB (C)	720x25mm, 1850x7.62N, 750x.50BMG
VEC-90	+1	Basic	90mm French Gun, MG-3, MG-3 (C)	45x90mm, 5000x7.62mm

MOWAG Shark

The Shark was designed as sort of a universal weapons carrier for light and medium weapons systems and turrets. Vehicles were produced (at least to the prototype stage) with a 35mm autocannon, a 105mm French gun, and the 105mm Rh-105 low recoil gun that can fire standard NATO ammunition. The chassis is a lightweight 8x8 chassis that, while not offering lots of armor protection, does give good mobility and speed. The driver is in the front left of the hull; a passenger seat is located to the right of the driver. The remaining crew members will have hatches on the turret roof, with the hatch layout depending on the turret used.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
35mm	\$87,196	D, A	600 kg	21 tons	3	5	Passive IR, Image Intensification	Shielded
105mm	\$250,428	D, A	600 kg	25 tons	4	7	Passive IR, Image Intensification	Shielded

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
35mm	194/78	49/20	400	188	Trtd	W(6)	TF13 TR7 TR6 HF16 HS6 HR4
105mm	174/70	44/18	400	188	Trtd	W(6)	TF5 TS4 TR3 HF16 HS6 HR4

Vehicle	Fire Control	Stabilization	Armament	Ammunition
35mm	+3	Fair	35mm KDE Autocannon, MAG	1000x35mm, 2800x7.62mm
105mm	+3	Fair	105mm French or Rh-105 LR Gun, MAG	45x105mm, 2800x7.62mm

MOWAG Spy

This is basically a greatly scaled-down version of the MOWAG Piranha wheeled armored personnel carrier. It is a small, light, quick vehicle without a great deal of armor protection, but a lot of agility. Armament is also very light. The driver has a hatch on the front left deck; a windshield may be fitted in front of this that also gives splash protection when fording. The hull roof may be fitted with a cupola that allows a light machinegun to be aimed and fired from within the vehicle, or turrets may be mounted that have a hatch in the roof.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Cupola	\$24,948	D, A	400 kg	7.15 tons	3	2	Image Intensification	Enclosed
V 042 Turret	\$46,344	D, A	400 kg	7.7 tons	3	3	Image Intensification	Enclosed
V 041 Turret	\$43,294	D, A	400 kg	7.4 tons	3	3	Image Intensification	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Cupola	210/84	53/21	200	78	Stnd	W(3)	HF8 HS4 HR3
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V 042 Turret	198/80	50/20	200	78	Trtd	W(3)	TF6 TS5 TR4 HF8 HS4 HR3
V 041 Turret	204/82	51/21	200	78	CiH	W(3)	TF3 TS3 TR2 HF8 HS4 HR3

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Cupola	+1	None	MAG	4000x7.62mm
V 042 Turret	+2	Fair	M-2HB, MAG	3000x.50, 2000x7.62mm
V 041 Turret	+2	Basic	M-2HB, MAG	2500x.50, 1650x7.62mm

<u>Akrep</u>

Notes: The Akrep (Scorpion) is a Turkish armored car used by that country's internal security and military police forces, and also by Morocco and Pakistan. It is basically an armored version of the Land Rover Defender (see British Unarmored Vehicles). The Akrep uses a cupola armed with twin or single MAG machineguns, which can be aimed and fired from under armor protection. Most versions of this vehicle have night vision devices. Standard equipment includes air conditioning for the crew, a heater, and run-flat tires. A special feature is the fuel tank; a fuel tank fire will not catch fire to the rest of the vehicle unless 100% fuel tank damage is taken. A winch is mounted in the front bumper with a 3.6-ton capacity. Note that though normal armament is MAG machineguns, the twin MAGs may be removed and a single M-2HB or ATGM launcher may be mounted in its place.

The MGSS is an Akrep chassis fitted with a ground surveillance/air surveillance radar system. (MGSS stands for Mobile Ground Surveillance System.) The radar has a range of up to 38 km against vehicle convoys, 30 km against single vehicles and aircraft, and 15 km against personnel. The vehicle is equipped with a 1.5kW generator to power the radar when the engine is off and has a computerized communications system to gather the data and send it to higher headquarters.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
Patrol (Gas)	\$25,160	G, A	1 ton	3.6 tons	3	2	Passive IR	Enclosed
Patrol (Diesel)	\$25,103	D, A	1 ton	3.52 tons	3	2	Passive IR	Enclosed
MGSS (Gas)	\$40,740	G, A	400 kg	3.6 tons	3	4	Passive IR, Radar	Enclosed
MGSS (Diesel)	\$40,655	D, A	400 kg	3.53 tons	3	4	Passive IR, Radar	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
Patrol (Gas)	250/100	63/25	110	79	CiH	W(2)	TF2 TS2 TR1 HF4 HS2 HR2
Patrol (Diesel)	220/88	55/22	110	29	CiH	W(2)	TF2 TS2 TR1 HF4 HS2 HR2
MGSS (Gas)	230/92	58/23	110	81	CiH	W(2)	TF1 TS1 TR1 HF4 HS2 HR2
MGSS (Diesel)	200/80	50/20	110	33	CiH	W(2)	TF1 TS1 TR1 HF4 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
Patrol (Both)	None None		2xMAG or 1xM-2HB	3200x7.62mm or 1950x.50
MGSS (Both)	None	None	MAG (C)	2000x7.62mm

Cobra (Reconnaissance Variants)

Notes: The Cobra LRSU Vehicle is a variant of the Cobra armored personnel carrier designed for use by LRSUs (Long-Range Surveillance Units). The Cobra LRSU is more lightly armed, but has a 2-meter elevating pod carrying a FLIR sensor, ground surveillance radar, an image intensifier, a shotgun microphone, and a TV camera. Inside the vehicle are the controls for the pod and extra radios.

The Reconnaissance Car version is a Cobra armored personnel carrier with heavier armament, a smaller crew, better night vision, and extra radios. The autocannon is externally mounted and aimed and fired from inside the vehicle.

V	/ehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological

LRSU	\$153,537	D, A	1 ton	6.05 tons	4	5	FLIR, Radar, Image Intensification, WL Spotlight	Enclosed
Recon Car	\$124,126	D, A	1 ton	6 tons	4	4	FLIR, Image Intensification, WL Spotlight	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
LRSU	178/72	45/18/5	110	47	CiH	W(3)	TF1 TS1 TR1 HF4 HS2 HR2
Recon Car	216/86	54/22/6	110	56	CiH	W(3)	TF3 TS3 TR3 HF4 HS2 HR2

Vehicle	Vehicle Fire Control Stabilization LRSU None None		Armament	Ammunition
LRSU			MAG	850x7.62mm
Recon Car None		None	25mm M-242 Bushmaster	500x25mm

Commando Scout

Notes: The American firm of Cadillac Gage manufactures a number of vehicles for export, some of which have been picked up for US service. The 4x4 Commando Scout is not one of the latter, but is in service with a number of military and constabulary units throughout the world. The vehicle has a driver's hatch on the front deck, a commander's hatch on the turret deck, and an exit hatch on the rear of the vehicle. The vehicle can be armed with a machinegun or 20mm autocannon. In some models, a single remotely fired TOW II ATGM is also mounted on the turret, or a Mk19 grenade launcher may be fitted in place of the main armament. The command variant does not have turret-mounted weapons, but does have a pintle-mounted weapon on the turret, and has a firing port on the front, rear, and both sides of the turret, as well as three radios in the hull.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
7.62mm Turret	\$22,037	D, A	200 kg	6.58 tons	2+1	2	Headlights	Enclosed
M-2HB Turret	\$31,348	D, A	200 kg	6.66 tons	2+1	2	Headlights	Enclosed
M-2HB/MAG Turret	\$29,443	D, A	200 kg	6.69 tons	2+1	2	Headlights	Enclosed
20mm Turret	\$31,028	D, A	200 kg	6.63 tons	2+1	2	Headlights	Enclosed
Mk-19 Turret	\$39,201	D, A	200 kg	6.66 tons	2+1	2	Headlights	Enclosed
ATGM Carrier	\$35,336	D, A	200 kg	6.56 tons	3	3	Headlights	Enclosed
Recoilless Rifle Carrier	\$44,508	D, A	200 kg	7.13 tons	3	2	Headlights	Enclosed
Command Vehicle	\$24,633	D, A	200 kg	6.54 tons	3	4	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
7.62mm, M-2HB, M-2HB/MAG Turrets	186/74	47/19	208	55	Trtd	W(2)	TF6 TS4 TR3 HF7 HS3 HR2
20mm, Mk-19 Turrets	184/74	46/19	208	55	Trtd	W(2)	TF6 TS4 TR3 HF7 HS3 HR2
ATGM Carrier	186/74	47/19	208	55	Stnd	W(2)	HF7 HS3 HR2
Recoilless Rifle Carrier	176/70	44/18	208	55	Stnd	W(2)	HF7 HS3 HR2

Vehicle	icle Fire Stabilization Armament Control		Armament	Ammunition	
7.62mm Turret	7.62mm Turret +2 None 2xMAG M-2HB Turret +2 None 2xM-2HB M-2HB/MAG Turret +2 None M-2HB, MAG		2xMAG	2600x7.62mm	
M-2HB Turret			2xM-2HB	2200x.50	
			M-2HB, MAG	1100x.50, 2400x7.62mm	
20mm Turret	20mm Turret +2 Basic 2 Mk-19 Turret +2 Basic 2		20mm Rh-202 Autocannon, MAG	200x20mm, 2600x7.62mm	
Mk-19 Turret			Mk-19 AGL, MAG	200x40mm Grenades,	

				2600x7.62mm	
ATGM Carrier	ATGM Carrier None None		TOW II Launcher, MAG (C)	6xTOW II ATGM, 2000x7.62mm	
Recoilless Rifle None None Carrier		None	M-40A2 106mm Recoilless Rifle Carrier, MAG (C)	15x106mm Rockets, 2000x7.62mm	
Command Vehicle	ommand Vehicle None None		MAG (C)	2000x7.62mm	

<u>Dragoon Light Combat Vehicles</u>

Notes: The LFV (Light Forces Vehicle)-90 is designed around a 90mm gun in a two-man turret. The turret is constructed from a hard steel ballistic design that is resistant to 7.62N armor-piercing rounds. The LFV-90 is equipped with a fire control system that is also coupled with a secondary backup in case of damage or power loss (the rangefinder requires two damaging results to knock it out). The US Air Force adopted the LFV-90 in late 1996; they required a lightweight armored vehicle that was capable of defending Air Force installations around the globe. The Air Force contracted with AV Technology for 125 LFV-90s, but specified that they must also be equipped with ERA (the LFV-90 has lugs for ERA on the HF, HS, TF, and TS).

The MEWS (Mobile Electronic Warfare System) is a Dragoon basic APC with modifications to allow it to conduct electronic warfare. The passenger compartment is largely filled with radios, multiband radio jammers, radar jammers, radio and radar direction finders, and electronic listening devices to intercept and analyze enemy radio broadcasts. Radius of jamming is 1 kilometer, and it makes radar use two levels harder and radio use three levels harder. Externally, the MEWS can be distinguished by its many antennas and large retractable jamming antenna mast.

The VOSV (Video Optical Surveillance Vehicle) version of the Dragoon basic APC contains advanced surveillance devices coupled with a radio datalink to higher headquarters. The sensors are contained on a 3-meter mast, and include TV, video, night vision, shotgun microphone, and radio direction finders. The purpose is to provide a scout vehicle that can provide the commander with a real-time picture of a remote area. This requires an equivalent datalink and equipment at the higher headquarters, and is included in the cost of the vehicle. The VOSV is equipped with no less than three radios, one dedicated to the datalink.

Twilight 2000 Notes: It is believed that all LFV-90s were delivered by November of 1997; they were distributed across the European theater, Korean theater, and Middle Eastern theater.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
LFV-90	\$263,103	D, A	500 kg	12.7 tons	4	5	Passive IR, Thermal Imaging	Enclosed
MEWS	\$103,695	D, A	500 kg	11.5 tons	4	8	Passive IR	Enclosed
VOSV	\$64,180	D, A	500 kg	11.5 tons	5	6	FLIR, Image Intensification	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
LFV-90	176/70	44/18/5	341	109	Trtd	W(4)	TF4 TS4 TR3 HF5 HS3 HR2
MEWS	164/66	41/17/4 341		99	Trtd	W(4)	HF5 HS3 HR2
VOSV	174/70	44/18/5	341	98	Trtd	W(4)	HF5 HS3 HR2

Vehicle	icle Fire Stab Control		Armament	Ammunition
LFV-90	+2	Fair	90mm Cockerill or Mecar Gun, MAG, MAG (C)	50x90mm, 4000x7.62mm

N	MEWS/VOSV	None	None	MAG (C)	1000x7.62mm
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HMMWV Light Combat Vehicles

Notes: The M-1118 HMMWV FSV (Fire Support Vehicle) was an experimental version of the armored HMMWV. Production was greatly hastened in the latter stages of the war, with many conversions made from existing HMMWVs. The FSV is a standard M-1114 model armored HMMWV fitted with a casemate-mounted M-242 25mm ChainGun of the same type that is mounted on the Bradley. The gunner controls the gun via a downlinked television monitor connected to a sight on the gun. The rear area of the vehicle is largely taken up with the turret mechanism and ammunition for the gun.

The M-1109 is an armored HMMWV version focusing on crew survivability. Though lacking in payload, the "Oh Niner" has been retained for its protection. Though not issued with a winch, many were back fitted in theater. The M-1109 has a NHT mount (C), or it may carry a TOW II ATGM. Damage to crew from mines or HE blast is halved due to extensive installed measures (blast shields. collapsible seats, etc.).

The M-1114 is an armored HMMWV version focusing on crew survivability, restoring the favorable payload lost in the M-1109. Though not issued with a winch, many were retrofitted with one in theater. The M-1114 has a NHT mount (C), or may be fitted with a TOW II launcher. Damage to the crew from mines or HE blast is halved due to extensive installed measures (blast shields, collapsible seats, etc.).

The M-1116 is an armored HMMWV version focusing on crew survivability. It was specifically designed for the US Air Force with provisions for crew comfort (better heat and air circulation), and has an armored cupola with an NHT mount (C). Many were retained when air base security needs faded. Though not issued with a winch, many were retrofitted with one in theater. Damage to the crew from mines or HE blast is halved due to extensive installed countermeasures (blast shields, collapsible seats, etc.).

Twilight 2000 Notes: The HMMWV FSV was produced by the thousands for use by Light Infantry Divisions.

Vehicle	Price	Fuel Type	e Load	Veh Wt	Crew	Mnt	Night V	/ision	Radiological
M-1118	\$35,602	2 D, G, A	500 kg	4.85 tons	2	2	Passiv	e IR	Enclosed
M-1109	\$17,68	5 D, G, A	570 kg	4.53 tons	2+2	1	Headli	ghts	Enclosed
M-1114	\$17,70	B D, G, A	1.04 tons	4.56 tons	2+4	1	Headli	ghts	Enclosed
M-1116	\$18,95	3 D, G, A	545 kg	5.1 tons	2+4	1	Headli	ghts	Enclosed
Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp		Armor	
M-1118	222/88	56/22	95	47	CiH	W(4)	TF2	TS2 TR2	HF4 HS4 HR4
M-1109	222/88	56/22	95	44	Stnd	W(4)		HF4 H	S4 HR4
M-1114	232/92	58/23	95	47	Stnd	W(4)		HF4 H	S4 HR4
M-1116	212/86	53/22	95	47	CiH	W(4)	TF2	TF2 TS2 TR2 HF4 HS4 HR4	
Vehic	le	Fire Control	Sta	Stabilization		Armamen		Ar	nmunition
M-1118		+2		Basic	251	mm Chain	Gun	2	297x25mm

Lancer

Notes: Looking very much like an armored SUV, the Lancer APV was developed in response to a US Air Force request for a new airbase patrol vehicle to replace the Ranger armored cars in use until recently. It was not chosen by the Air Force, but sales were made to undisclosed recipients. The vehicle is protected by a low-weight synthetic armor known as ArmaCore. There are doors on either side of the cab and another in the rear. On the roof, at the rear, is a ring mount for a weapon. The vehicle is usually equipped with flashing lights and a siren.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$10,220	G, A	300 kg	2.82 tons	2+2	1	Headlights	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
344/138	86/35	70	110	Stnd	W(2)	HF4 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition
None	None	M-60 (Rear)	1000x7.62mm

LAV-300CS

Notes: The LAV-300 series is a 6x6 wheeled armored vehicle manufactured by Cadillac Gage and used by Kuwait and Panama, but it was not adopted by the US Army. The CS (Combat Support) version is a type with a 90mm gun turret. The V-300 is fully amphibious. The vehicle has one small side door on its left side and a rear exit ramp, plus a commander's atop the turret.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$186,697	D, A	400 kg	12 tons	4	4	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
170/68	43/17/5	265	101	Trtd	W(3)	TF5 TS6 TR6 HF8 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition	
+1	Good	90mm gun, MAG, MAG (C)	44x90mm, 2400x7.62mm	

LAV-600

Notes: The LAV-600 was begun by Cadillac Gage as a private venture. The LAV-600 features better armor and vision devices than the LAV-300 and LAV-AG, as well as heavier armament, and has the complete turret of a Stingray tank mounted on it. The driver sits on the front left, and at the rear of the hull are two large doors, each of which has a firing port. The LAV-600 has a very efficient Halon fire suppression system and CARC (Chemical Agent Resistant Coating) paint. Run-flat tires are standard. This vehicle is also in the service of the Thai Army.

Twilight 2000 Notes: When the Twilight War began in earnest, the LAV-600 was picked up for service by the US Marines as a tank destroyer.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$253,783	D, A	700 kg	18.5 tons	4	6	Passive IR	Shielded

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
120/48	30/12	460	81	Trtd	W(4)	TF8 TS7 TR7 HF10 HS5 HR5

Fire Control	Stabilization	Armament	Ammunition

105mm M-68 gun, MAG, M-2HB (C)	34x105mm, 2400x7.62mm, 400x.50
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4	God

M-3A1 (White) Scout Car

Notes: This is a 4x4 light scout car produced during World War 2 for US forces. It was replaced in US service during World War 2 by the M-8 and M-20, but some copies remain in service with Columbia, Guatemala, Liberia, Madagascar, Mexico, Paraguay, Uruguay, and the former Yugoslavia. It is a simple vehicle with light armor. The driver and commander have bullet resistant windshields to the front and sides. The vehicle is open-topped. The weapons are mounted on a track around the troop compartment, and can be moved to fire in any direction.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$38,337	G, A	600 kg	5.62 tons	2+6	2	Headlights	Open

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
128/52	32/13	113	51	Stnd	W(2)	HF2 HS2 HR2

Fire Control	Stabilization	Armament	Ammunition	
None	None	M-2HB, M-1919A4	750x.50, 8000x.30-06	

M-8/M-20 Greyhound

Notes: The M-8 version of the Greyhound was used as a light scout car. It has a turret with a 37mm manually fed cannon and a coaxial machinegun. Turret traverse is slow, as it is done with a manual crank. The commander and gunner sit in the turret, while the driver has a hatch on the front deck.

The M-20 is an unturreted version of the World War II M-8 Greyhound reconnaissance vehicle, still used in a number of foreign countries. Its armor is inferior compared to other vehicles, but it is cheap and mechanically reliable.

Vehicle	Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
M-8	\$52,421	G, A	300 kg	7.89 tons	3	3	Headlights	Enclosed
M-20	\$17,393	G, A	300 kg	6.58 tons	2+4	2	Headlights	Enclosed

Vehicle	Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
M-8	118/48	30/12	212	64	Trtd	W(3)	TF2 TS2 TR2 HF3 HS2 HR2
M-20	132/52	33/13	212	64	Stnd	W(3)	HF3 HS2 HR2

Vehicle	Fire Control	Stabilization	Armament	Ammunition
M-8	None	None	37mm gun, M-1919A4, M-2HB (C)	80x37mm, 1500x.30-06, 400x.50
M-20	None	None	M-2HB (C)	1260x.50

M-750 (Cadillac Gage LAV-350)

Notes: Unlike most Cadillac Gage armored cars, the LAV-350 was type standardized in the US Army and Air Force as the M-750.

It was primarily used for airfield security, to patrol perimeters of large compounds in hostile areas. The M-750 is a variant of the company's LAV-300 series; in this variant, the vehicle has a small turret mounted on the front deck armed with two machineguns. A heavier weapon is mounted on the rear deck behind a set of hatches. There is a hatch on the sloping part of the front deck for the driver, and another hatch on the turret deck. The M-750 has a front-mounted winch with a capacity of 9.07 tons, and optionally, air conditioning.

Price	Fuel Type	Load	Veh Wt	Crew	Mnt	Night Vision	Radiological
\$36,406	D, A	1 ton	10 tons	4	3	Passive IR	Enclosed

Tr Mov	Com Mov	Fuel Cap	Fuel Cons	Config	Susp	Armor
194/78	49/20/5	265	101	Trtd	W(3)	TF3 HS3 TR3 HF8 HS5 HR4

Fire Control	Stabilization	Armament	Ammunition	
None	None	2xMAG, M-2HB (R)	1120x7.62mm, 525x.50	