


					
Airborne threat	Highest Priority threat	Newest threat	Launch warning	Missile launch	Sea based threat

Basic symbology overview


Symbology Overview

Here is a list of symbology that can be found on most modern (Western) fighters: note that the Russian planes may make use of a different RWR system that does not use these symbols. Note that the symbols denote critical differences between various threats: an American F-15C jet aircraft will have the same symbol ('15') as a Russian SA-15 Tor SAM system: the ^ HAT symbol differentiates between airborne or not airborne threat.

Threat Overview

Ground Threat Guide	Threat	NATO Code	RWR IDENT	Type	Gun Ammo	Missile Amount	Speed (mach)	Range (nm)		Radar (nm)	Acquire Time (sec.)	Altitude (ft)		Danger (1~10)
								Min	Max	Max		Min	Max	
AAA	2K22M Tunguska	SA-19 Grison		OP, RAD, LSR	1936	8x SACLOS		0	2/4	6	4	0 / 100	16000	5
	Flk. Pnz. Gepard		A	RAD	660			0	2	8	4	0	9500	4
	M163 VADS			OP	2280			0	1.4		6	0	4500	3
	ZPU-1/2/4			OP	50 - 4800			0	0.7		3.5	0	4500	1
	ZSU-23-4 Shilka		A	RAD	2000			0	1.3	12	8	0	6500	3
	ZSU-57-2 Sparka			OP	254			0	2		5	0	14000	2
	Zu-23-3 Sergey			OP	100			0	1.3		4	0	6500	1
MANPADS	3K38 Igla	SA-18 Grouse		IR		3x IR		0.25	2.5		6	0	12000	3
	9K338 Igla-S	SA-24		IR		3x IR		0.25	2.5		6	0	12000	3
	FIM-92 Stinger			IR		3x IR		0.1	2		6	0	11000	3

SHORAD	9A33 Osa	SA-8 Gecko		RAD		6x RAD	0.8	7.5	16	26	50	21000	7
	Strela-1 9P31	SA-9 Gaskin		IR		4x IR	0.4	2.5		2.5	100	12000	6
	9K35 Strela-10	SA-13 Gopher		IR		4x IR	0.4	2.8		2.5	75	15000	6
	9K331 Tor	SA-15 Gauntlet		RAD		8x RAD	0.8	6.5	16	9	60	26000	7
	Jeep Avenger ADS			OP, IR	180	8x IR	0.1	3.7		2.5	0	11000	4
	M6 Linebacker			OP, IR	1500	4x IR	0.1	2		2.5	0	11000	4
	MIM-115 Roland		RO	RAD		10x RAD	0.5	3.4	5.1	11	30	19500	6
	MIM-72G Chaparral			IR		4x IR	0.1	3		2.5	150	9500	5
MERAD	S-75 Devina	SA-2	02	RAD			?	?	25	?	?	?	
	S-125 Pechora	SA-3 Goa		RAD		4x RAD	13.5	40	21	?	700	65600	5
	2K12 Kub	SA-6 Gainful		RAD		3x RAD	0.5	19.2	47	28	100	33000	7
	9K37 Buk	SA-11 Gadfly	 	OP, RAD		4x RAD	?	20.2	90	26	450	45000	8
	MIM-23 Hawk		HA, HK	RAD		3x RAD	1	25.6	?	12	450	45000	7
LORAD	S-300PS	SA-10 Grumble	  	OP, RAD		4x RAD	3	40	160	3	50	150000	10
	MIM-104 Patriot			RAD		4x RAD	1.6	86	92	?	200	80000	10

TGT RAD*	P-19 Flat Face	SA-3	FF	Often part of SA-3, but can also guide others	85	?	?	
	SNR-125 Low Blow	SA-3	?	SA-3 Missile guidance radar	22	?	?	
	1S91 Straight Flush	SA-6	?	SA-6 Target acquisition and tracking radar	?	?	?	
	9S80M1 Dog Ear	SA-9	DE	SA-9, SA-13, ZSU-23-4 support radar	20	?	100000	
	5N66M Clam Shell	SA-10		SA-10 TGT RDR	64	?	?	
	64H6E Big Bird	SA-10		SA-10 TGT RDR	160	?	?	
	30N6E Flap Lid	SA-10		SA-10 Target tracking radar	?	?	?	
	9S18M1 Snow Drift	SA-11		SA-11 TGT RDR	86	?	?	
	Roland Radar		RO	Roland TGT RDR	16	?	?	
	AN/MPQ-46 HPIR		HA	MIM-23 Hawk Target tracking radar	?	?	?	
AN/MPQ-53		HK	MIM-104 Patriot acquisition and tracking radar	?	?	?		
EWR / ACQR	1L13 Box Spring		S	Early Warning / Surveillance Radar	160	?	130000	
	55G6 Tall Rack		S	Early Warning / Surveillance Radar	215	?	130000	
	P-37 Bar Lock		S		210	?	?	
	PRW-11 Side Net		S		100	?	100000	
	RSP-7 Two Spot		S		20	?	?	
Types: OP = optical, RAD = radar, LSR = laser,								
Missile reload time for units supplied with logistical facilities (supply trucks, friendly bases) is approx. 10 minutes								
Target radars (often) boost (radar) range and reaction time of the default vehicle: you could still be locked with the launchers own radar / optics								
Vehicles that do not use radar for guidance may still use it for ranging and target detection (SA-13, SA-19)								

Anti Aircraft Artillery (AAA)

Note: NATO reporting names are italicized.

Threat	NATO Designation	RWR Symbology	Range (NMI)		Altitude (Feet)		Acquire Time (Seconds)	Guidance Type	Ammunition
			Min	Max	Min	Max			
ZU-23-3 Sergey	-	-	0	1.3	0	6500	4	Optical	100 rounds
ZSU-23-4 Shilka	-	A	0	1.3	0	6500	8	RADAR	2000 rounds
ZSU-57-2 Sparka	-	-	0	2	0	14000	5	Optical	254 rounds
ZPU-1/2/4	-	-	0	0.7	0	4500	3.5	Optical	4800 rounds
Flakpanzer Gepard	-	A	0	2	0	9500	4	RADAR	660 rounds
M163 Vulcan	-	-	0	1.4	0	4500	6	Optical	2280 rounds

Man Portable Air Defense Systems (MANPADS)

Note: NATO reporting names are italicized.

Threat	NATO Designation	RWR Symbology	Range (NMI)		Altitude (Feet)		Acquire Time (Seconds)	Guidance Type	Ammunition
			Min	Max	Min	Max			
3K39 Igla	SA-18 Grouse	-	0.25	2.5	0	12000	6	IR	3 (1 per launcher)
9K338 Igla-S	SA-24 Grinch	-	0.25	2.5	0	12000	6	IR	3 (1 per launcher)
FIM-92 Stinger	-	-	0.1	2	0	6500	6	IR	3 (1 per launcher)

Surface to Air Missile (SAM) Systems

Note: The S-200 / SA-5 is yet to be added into DCS, and is coming soon™. NATO reporting names are italicized.

Threat	NATO Designation	RWR Symbology	Track RADAR	Search RADAR	Range (NMI)		Altitude (Feet)		Acquire Time (Seconds)	Missile Guidance	Ammunition
					Min	Max	Min	Max			
S-75 Devina	SA-2 <i>Guideline</i>	2	SNR-75 <i>Fan Song</i>	P-12 <i>Spoon Rest</i>	TBC	TBC	TBC	TBC	TBC	RADAR Command Guidance	1 per launcher
S-125 Neva/Pechora	SA-3 <i>Goa</i>	3	SNR-125 <i>Low Blow</i>	P-19 <i>Flat Face</i>	3.2	13.5	700	65600	TBC	RADAR Command Guidance	4 per launcher
S-200	SA-5 <i>Gammorn</i>	5	5N26 <i>Square Pair</i>	P-14 <i>Tall King</i>	TBC	TBC	TBC	TBC	TBC	SARH	1 per launcher
2K12 Kub	SA-6 <i>Gainful</i>	6	1S91 <i>Straight Flush</i>	P-12 <i>Spoon Rest</i>	0.5	19.2	100	33000	28	Command Guidance, SARH Terminal	3 per TEL
9K33 Osa	SA-8 <i>Gecko</i>	8	Integrated <i>Land Roll</i>	-	0.8	7.5	50	21000	26	RADAR Command Guidance	6 per vehicle
9K31 Strela-1	SA-9 <i>Gaskin</i>	-	-	-	0.4	2.5	100	12000	2.5	IR	4 per vehicle
S-300PS	SA-10 <i>Grumble</i>	10, BB, CS	30N6E <i>Flap Lid</i> , 76N6 <i>Clam Shell</i>	64H6E <i>Big Bird</i>	3	40	50	150000	3	SARH	4 per TEL

9K37 Buk	SA-11 <i>Gadfly</i>	11, SD	Integrated Fire Dome	9S18M1 <i>Sn ow Drift</i>	TB C	19.2	450	45000	28	SARH	4 per TEL
9K35 Strela-10	SA-13 <i>Gopher</i>	13	Integrated <i>Sn ap Shot</i>	-	0.4	2.8	75	15000	2.5	IR	4 per vehicle
9K331 Tor	SA-15 <i>Gauntlet</i>	15	Integrated <i>Scrum Half</i>	-	0.8	6.5	60	26000	9	EO and RADA R Command Guidance	7 per vehicle
2K22M Tunguska	SA-19 <i>Grison</i>	S6	-	-	0	4	0	16000	4	SACLOS	1936 rounds gun, 8 missiles
Avenger ADS	-	-	-	-	0.1	3.7	0	11000	2.5	IR	180 rounds gun, 8 FIM-92
M6 Linebacker	-	-	-	-	0.1	2	0	11000	2.5	IR	4 FIM-92 per vehicle
Rapier	-	RT	Blindfire	-	TB C	TB C	TB C	TBC	TBC	EO and RADA R guided SACLOS	4 per launcher
MIM-115 Roland	-	RO	Integrated	Roland EWR	0.5	3.4	30	19500	11	Command Guidance	10 per vehicle
MIM-72G Chapparral	-	-	-	-	0.1	3	150	9500	2.5	IR	4 per vehicle
MIM-23 Hawk	-	HK	AN/MPQ-46 HPIR, AN/MPQ-55 CWAR	AN/MPQ-50 PAR	1	25.6	450	45000	12	SARH	3 per launcher
MIM-104 Patriot	-	PT	AN/MPQ-53/65 STR		1.6	86	200	80000	TBC	TVM	4 per TEL

RADARS

Note: NATO reporting names are italicized.

RADAR	NATO Designation	RWR Symbology	Role	Associated SAM	Range (NMI)	Notes
1L13	<i>Box Spring</i>	S	EWR	-	TBC	
55G6	<i>Tall Rack</i>	S	EWR	-	TBC	
P-37	<i>Bar Lock</i>	S	EWR	-	TBC	
PRW-11	<i>Side Net</i>	S	EWR	-	TBC	
RSP-7	<i>Two Spot</i>	S	EWR	-	TBC	
SNR-75	<i>Fan Song</i>	2	TR	S-75 / SA-2	TBC	
P-12	<i>Spoon Rest</i>	S	SR	S-75 / SA-2	TBC	
SNR-125	<i>Low Blow</i>	3	TR	S-125 / SA-3	TBC	
P-19	<i>Flat Face</i>	S	SR	S-125 / SA-3	TBC	
5N26	<i>Square Pair</i>	5	TR	S-200 / SA-5	TBC	Yet to be added to DCS
P-14	<i>Tall King</i>	S	SR	S-200 / SA-5	TBC	Yet to be added to DCS
1S91	<i>Straight Flush</i>	6	STR	2K12 / SA-6	TBC	
9S80M1	<i>Dog Ear</i>	DE	SR	9K33 / SA-8	TBC	
30N6E	<i>Flap Lid</i>	10	TR	S-300 / SA-10	TBC	
64H6E	<i>Big Bird</i>	BB	TR	S-300 / SA-10	160	
76N6	<i>Clam Shell</i>	CS	SR	S-300 / SA-10	64	

9S18M1	<i>Snow Drift</i>	SD	SR	9K37 / SA-11	TBC	
Roland EWR	-	S	SR	Roland	TBC	
AN/MPQ-46 HPIR	-	HK	TR	Hawk	TBC	
AN/MPQ-50 PAR	-	S	SR	Hawk	TBC	
AN/MPQ-55 CWAR	-	HK	TR	Hawk	TBC	
AN/MPQ-53/65	-	PT	STR	Patriot	TBC	

Missiles

Non-NATO

Russian Designation	NATO Designation	Platform	Min Range (nm)	Max range (nm)	Speed (Mach)	Guidance type	Armament	Threat Level
<u>R-24R</u>	AA-7 Apex	link	0.25	10.8	3	SARH	High Explosive	Moderate
<u>R-24T</u>	AA-7 Apex	link	0.25	10.8	3	IR	High Explosive	Moderate
<u>R-27ER</u>	AA-10C Alamo	link	0.25	37.8	3	SARH	High Explosive	High
<u>R-27ET</u>	AA-10D Alamo	link	0.25	37.8	3	IR	High Explosive	High
<u>R-27R</u>	AA-10A Alamo	link	0.25	27	3	SARH	High Explosive	Moderate
<u>R-27T</u>	AA-10B Alamo	link	0.25	21.6	2.5	IR	High Explosive	Moderate
<u>R-60</u>	AA-8 Aphid	link	0.25	2.7	2	IR	High Explosive	Moderate
<u>R-73</u>	AA-11 Archer	link	0.25	8.09	2.5	IR	High Explosive	Very High
<u>R-77</u>	AA-12 Adder	link	0.25	31.07	3	ARH	High Explosive	Very High
<u>R-33</u>	AA-9 Amos	link	0.25	TBC	4.5	INS and SARH	High Explosive	Very High

NATO

NATO Designation	Platform	RWR Symbol(s)	Min Range (nm)	Max range (nm)	Speed (Mach)	Guidance	Armament (Warhead Type)	Threat Level
<u>AIM-120B</u>	link	N/A	0.25	29.71	4	ARH	Blast-Fragmentation	Very High
<u>AIM-120C</u>	link	N/A	0.25	29.71	4	ARH	Blast-Fragmentation	Very High
<u>AIM-7M</u>	link	N/A	0.25	24.31	3	SARH	Blast-Fragmentation	Very High
<u>AIM-9M</u>	link	N/A	0.25	9.71	2.5	IR	Blast-Fragmentation	Very High




Aircraft

Non-NATO

NATO Designation	Platform	RWR Symbol(s)	Min Range	Max range	Min Altitude	Max Altitude	Speed	Armament
<u>shell</u>	link		UNK	UNK	UNK	UNK	UNK	UNK

Airspace Surveillance

Non-NATO

NATO Designation	Platform	RWR Symbol(s)	Flexibility	Max detection range	Min Altitude	Max Altitude
<u>Dog Ear</u>	1S80 "Sboraka" PPRU		self-propelled	80 km	UNK	UNK
<u>Tall Rack</u>	55G6-1 NEBO		stationary deployable	500 km	UNK	40 km
<u>Box Spring</u>	1L13-3 NEBO- SV		stationary deployable	500 km	UNK	40 km