

Mikoyan MiG-29S (9.13)
57 White
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Ivano-Frankivsk International Airport
2016

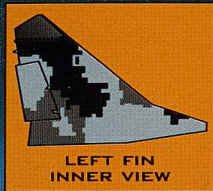
APPROXIMATE COLORS FOR UKRAINIAN MiG-29

FS 36495	Light Gray & Underside
FS 27885	White 506
FS 26295 / 26357	
FS 26099	Gray
FS 36463	Radome & Fins' Tip
Matt Black	Anti-Glare

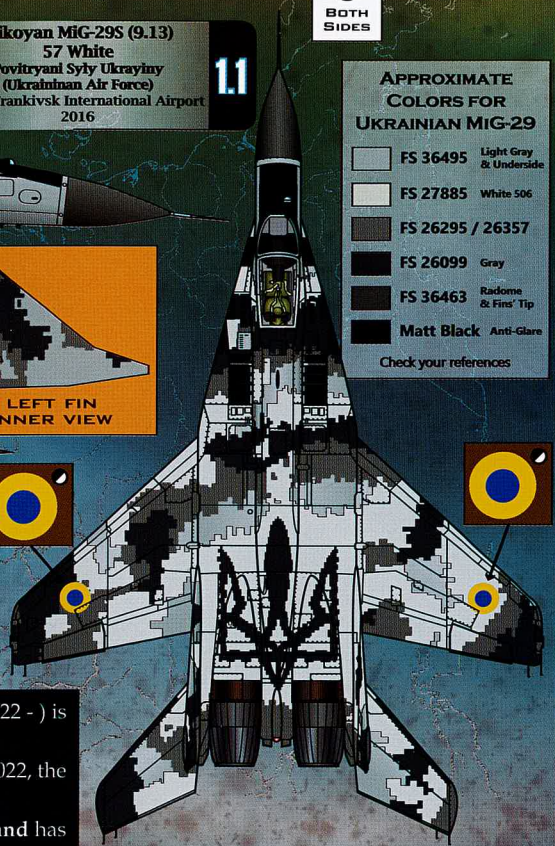
Check your references



12 Mikoyan MiG-29S (9.13)
57 White
Povitryani Syly Ukrainy
(Ukrainian Air Force)
April 30th, 2015

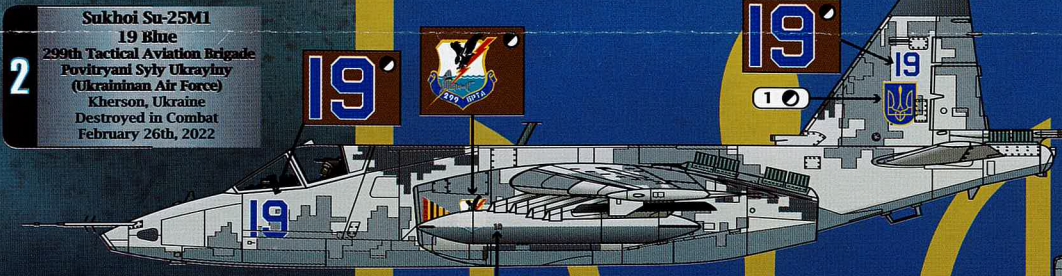


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At the moment of the production of this project, the Russian Invasion to Ukraine (February 24th, 2022 -) is still in progress.

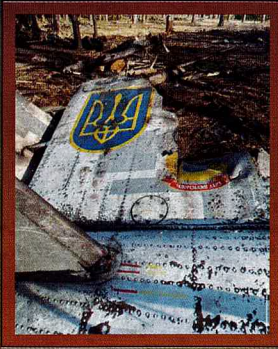
- During the Russian Invasion to Ukraine, a total of 13 Ukrainian MiG-29 have been lost up to May 2022, the serial number (s/n) of them has not been made public during the production of this project.
- MiG-29 "57 White" has been associated with the "Ghost of Kyiv", but the Ukraine Air Force Command has confirmed that such pilot doesn't exist (more details in the addendum of the instructive).



2 Sukhoi Su-25M1
19 Blue
299th Tactical Aviation Brigade
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Kherson, Ukraine
Destroyed in Combat
February 26th, 2022



3 Sukhoi Su-25M1
39 Blue
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Pilot Gennady Matulyak
Hlibivka Vyshgorod, Ukraine
Destroyed in Combat
February 27th, 2022



APPROXIMATE COLORS FOR UKRAINIAN SU-25M1 19 BLUE & 39 BLUE

FS 27885	White 506	FS 36495	Light Gray
FS 36251	Gray	FS 35630	Underside
FS 36293	Radome & panels		

Check your references



During the Russian Invasion to Ukraine, a total of 9 Ukrainian Su-25 have been lost up to May 2022

- On February 26th, 2022, while flying over Kherson, 19 Blue, along Su-25M1 30 Blue, were destroyed.
- On February 27th, 2022, 39 Blue, piloted by Gennady Matulyak, was damaged after completing an attack to the Russian forces, flew to the district of Hlibivka Vyshgorod, Kiyv, but the pilot could direct its damaged aircraft (a/c) towards the forest. Apparently the lost a/c was found until March 17th, 2022.



Sukhoi Su-27P1M
58 Blue
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Starokostiantyniv AB
October 12, 2018

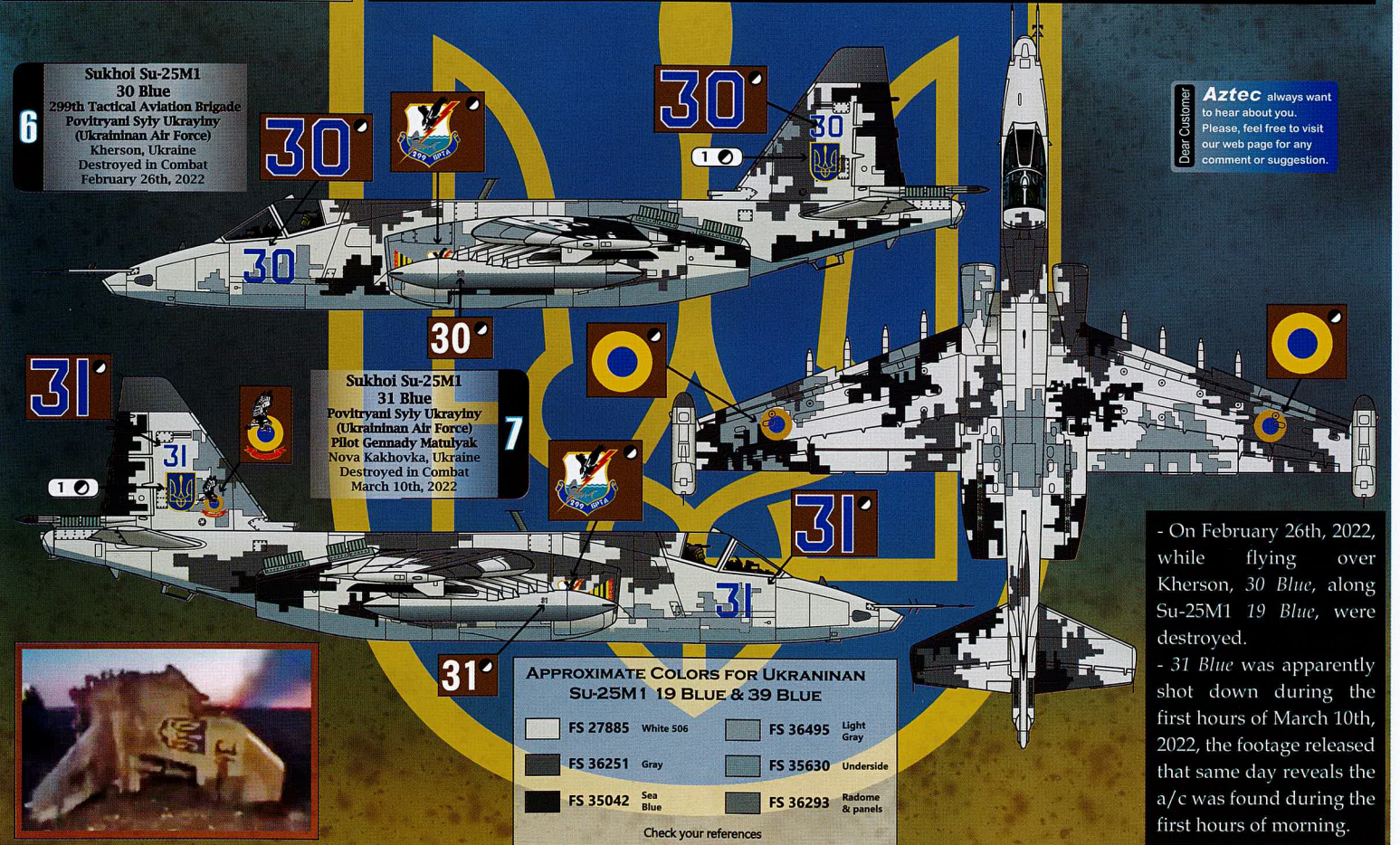
5
Sukhoi Su-27P1M
59 Blue
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Starokostiantyniv AB
October 12, 2018

APPROXIMATE COLORS FOR UKRAINIAN SU-27

FS 35180 Blue	FS 35250 UN Flag Blue
FS 35630 Blue	FS 35466 Underside
FS 36595 Radome & panels	Check your references

- A total of 4 Ukrainian Su-27 has been lost up to May 2022, the serial number (s/n) of them has not been made public during the production of this project.
 - The Ukrainian Su-27P1M *58 Blue* has been associated with the late *Col. Oleksandr Yakovych Oksanchenko "Grey Wolf"* (April 26th 1968 - February 25th 2022), who piloted *58 Blue* during the *Royal International Air Tattoo 2017*, receiving the trophy "*As the Crow Flies*" for the best performance during the show. *Col. Oksanchenko* was shot down piloting a Su-27 during the Russian Invasion (February 24th, 2022 - still in progress during the production of this project).

6
Sukhoi Su-25M1
30 Blue
299th Tactical Aviation Brigade
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Kherson, Ukraine
Destroyed in Combat
February 26th, 2022



7
Sukhoi Su-25M1
31 Blue
Povitryani Syly Ukrainy
(Ukrainian Air Force)
Pilot Gennady Matulyak
Nova Kakhovka, Ukraine
Destroyed in Combat
March 10th, 2022

APPROXIMATE COLORS FOR UKRAINIAN SU-25M1 19 BLUE & 39 BLUE

FS 27885 White 506	FS 36495 Light Gray
FS 36251 Gray	FS 35630 Underside
FS 35042 Sea Blue	FS 36293 Radome & panels

Check your references

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- On February 26th, 2022, while flying over Kherson, *30 Blue*, along Su-25M1 *19 Blue*, were destroyed.
 - *31 Blue* was apparently shot down during the first hours of March 10th, 2022, the footage released that same day reveals the a/c was found during the first hours of morning.



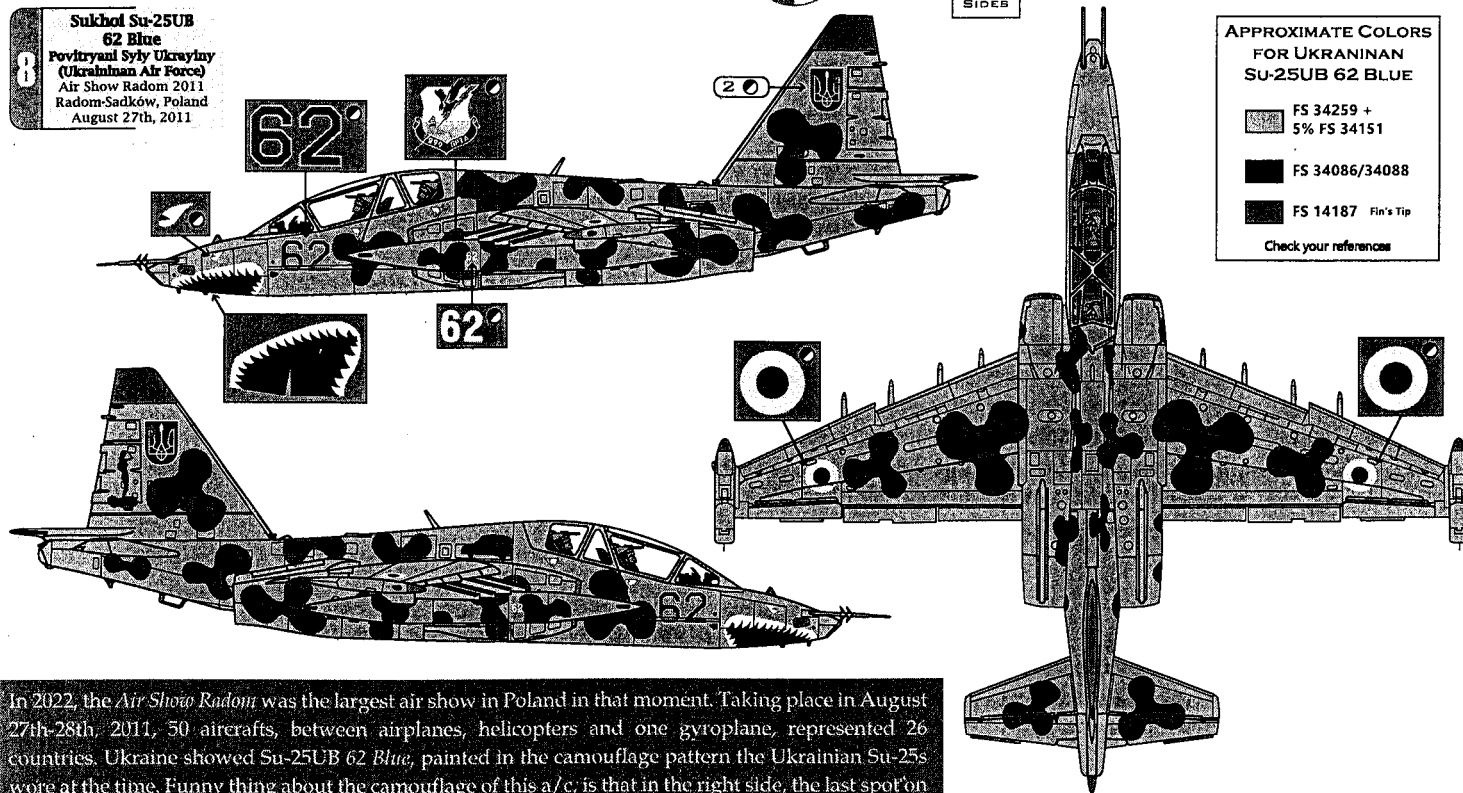


8 Sukhoi Su-25UB
62 Blue
Povitryani Syby Ukrainy
(Ukrainian Air Force)
Air Show Radom 2011
Radom-Sadków, Poland
August 27th, 2011

APPROXIMATE COLORS
FOR UKRANIAN
SU-25UB 62 BLUE

- FS 34259 +
5% FS 34151
- FS 34086/34088
- FS 14187 Fin's Tip

Check your references



In 2022, the *Air Show Radom* was the largest air show in Poland in that moment. Taking place in August 27th-28th, 2011, 50 aircrafts, between airplanes, helicopters and one gyroplane, represented 26 countries. Ukraine showed Su-25UB 62 Blue, painted in the camouflage pattern the Ukrainian Su-25s wore at the time. Funny thing about the camouflage of this a/c, is that in the right side, the last spot on fin is the figure of a woman, and the spot right behind the cockpit, is a Van.

The Ghost of Kyiv

In February 24th, 2022, during the Russian invasion to Ukraine (February 24th, 2022 - still in progress at the moment of the production of this project), it appeared "reports" of a mysterious Ukrainian MiG-29, who shot down six Russian aircrafts, becoming in the first *Flying Ace of the 21st century* in Ukraine. The mysterious pilot of that MiG-29 was nicknamed "*The Ghost of Kyiv*". During the first two weeks of March 2022, more air victories were attributed to the *Ghost of Kyiv*, saying it shot down 40 a/cs. The Ministry of Defense of Ukraine feed the myth when released "footage" of a MiG-29 shooting down a Russian MiG-35 in a dogfight, but it was later reveal that the footage was created using a flight simulator program. The legend of the *Ghost of Kyiv* spreaded quickly as modeling brands began to release products related to the "*Ghost of Kyiv*", suggesting that MiG-29 "57 White" was the a/c of the pilot, giving credibility to the existence of such the legendary pilot.

As there were no official reports of who the mysterious pilot was, the media finally gave a face to the mythical pilot, Major Stepan Ivanovych Tarabalk (January 9th, 1993 - March 13th, 2022) who died in defense the Ukrainian air space from the Russian forces. Finally, the Ukrainian Air Force Command had to clear that the *Ghost of Kyiv* doesn't exist, and no pilot in their forces has reached the shot downs the legend claims.

The legend of the *Ghost of Kyiv* was nothing more than a propaganda to raise the morale of the people of Ukraine, a common practice used in times of war. Other factor that made more credible the myth among the people, is that, despite differences of power and technology between the Ukrainian forces and the Russian forces, the Ukrainian forces have avoided Russia can take total air control of the Ukrainian airspace.

About the reason why MiG-29 57 White was chosen to be the airplane of the *Ghost of Kyiv*, it could have been for the next factors:

- 1.- The MiG-29 is the multirole/attack aircraft the Ukrainian Air Force has the most in service, making the legend more credible if the mysterious pilot, piloted the most available aircraft in the Ukrainian Air Force
- 2.- MiG-29 57 White is, as far as our research has showed, the only Ukrainian a/c that has as part of its camouflage paint, the Emblem of the Royal State of Volodymyr the Great, also known as the tryzub, coat of arms of Ukraine. This insignia derived from the seal-trident of Vladimir I Sviatoslavich (aka Vladimir the Great/Volodymyr, June 11th, 980 - July 15th, 1015), who consolidated the realm of Rus (modern-day Belarus, Russia and Ukraine), becoming the first Grand Prince of Kiev, and Christianized the Kievan Rus. This detail made 57 White the perfect war horse that should have such legendary figure.

11 MiG-29S 57 White

Ukrainian Air Force

Colors: FS 27885 for pale digital spots; FS 36495 for light gray digital spots; FS 26295 / 26357 for medium gray digital spots; FS 26099 for dark gray digital spots; FS 36463 for radome and fins' tip; Matt Black for anti-glare.

Decals for ver. 1.1: Small Coat of Arms on two positions; M 57 decal on two positions (on fin over coat of arms); 57 white with blue edges on two positions;

12 Roundels on four positions.

Decals for ver 1.2: Big Coat of Arms on two positions; S 57 decal on two positions (on fins' tip); 57 white with yellow edges on two positions; Roundels on four positions.



- 2** **Su-25M1 19 Blue** **Destroyed in Combat during the Russian Invasion of Ukraine, 2022** **Ukrainian Air Force**
 Colors: FS 27885 for pale digital spots; FS 36495 for light gray digital spots; FS 36251 for medium gray digital spots; FS 35630 for underside; FS 36293 for radome; fins' tips; tips of wingtip; round triangle panel on nose.
 Note: You can use the right view of *a/c 3* (Su-25M1 39 Blue) to complete the camouflage of this a/c.
 Decals: **Coat of Arms 1** on two positions; **Small 19 blue** on two positions; **Eagle emblem** on right side only; **Squadron's badge** on two positions (on air intakes behind danger's triangle stencil); **Big 19 blue** on two positions; **Roundels** on four positions; **Small 19 white decal** on wings' tanks.
 Note: You can use the right view of *a/c 3* (Su-25M1 39 Blue) to see how the rest of decals are placed.
- 3** **Su-25M1 39 Blue** **Destroyed in Combat during the Russian Invasion of Ukraine, 2022** **Ukrainian Air Force**
 Colors: FS 27885 for pale digital spots; FS 36495 for light gray digital spots; FS 36251 for medium gray digital spots; FS 35630 for underside; FS 36293 for radome; fins' tips; tips of wingtip; round triangle panel on nose.
 Note: You can use the right view of *a/c 2* (Su-25M1 19 Blue) to complete the camouflage of this a/c.
 Decals: **Coat of Arms 1** on two positions; **Small 39 blue** on two positions; **Eagle emblem** on right side only; **Squadron's badge** on two positions (on air intakes behind danger's triangle stencil); **Big 39 blue** on two positions; **Roundels** on four positions; **Small 39 white decal** on wings' tanks.
 Note: You can use the right view of *a/c 2* (Su-25M1 19 Blue) to see how the rest of decals are placed.
- 4** **Su-27P1M 58 Blue** **Ukrainian Air Force**
 Colors: FS 35630 for pale digital spots; FS 35250 for medium blue digital spots; FS 35180 for dark blue digital spots; FS 35466 for underside; FS 36595 for radome; hexagon panels on sweep wing; fins' tips and panels on nose.
 Decals: **Coat of Arms** on two positions; **Small 58 blue** on two positions; **Eagle emblem** on right fin only, **Wing with Blue Soldier** on left fin only; **Big 58 blue** on two positions; **Roundels** on four positions.
- 5** **Su-27P1M 59 Blue** **Ukrainian Air Force**
 Colors: FS 35630 for pale digital spots; FS 35250 for medium blue digital spots; FS 35180 for dark blue digital spots; FS 35466 for underside; FS 36595 for radome; hexagon panels on sweep wing; fins' tips and panels on nose.
 Note: You can use the right view of *a/c 4* (Su-27P1M 58 Blue) to complete the camouflage of this a/c, but take in count that despite the similarities of the spots of the camouflage, it can have slight differences.
 Decals: **Coat of Arms** on two positions; **Small 59 blue** on two positions; **Eagle emblem** on right fin only, **White wing** on left fin only; **Big 59 blue** on two positions; **Roundels** on four positions; **Ukraine emblem** on left side only.
 Note: You can use the right view of *a/c 4* (Su-27P1M 58 Blue) to see how the rest of decals are placed.
- 6** **Su-25M1 30 Blue** **Destroyed in Combat during the Russian Invasion of Ukraine, 2022** **Ukrainian Air Force**
 Colors: FS 27885 for pale digital spots; FS 36495 for light gray digital spots; FS 36251 for medium gray digital spots; FS 35042 for dark gray digital spots; FS 35630 for underside; FS 36293 for radome; fins' tips; tips of wingtip; round triangle panel on nose; **Matt Black** for anti-glare.
 Note: You can use the right view of *a/c 7* (Su-25M1 31 Blue) to complete the camouflage of this a/c.
 Decals: **Coat of Arms 1** on two positions; **Small 30 blue** on two positions; **Eagle emblem** on right side only; **Squadron's badge** on two positions (on air intakes behind danger's triangle stencil); **Big 30 blue** on two positions; **Roundels** on four positions; **Small 30 white decal** on wings' tanks.
 Note: You can use the right view of *a/c 7* (Su-25M1 31 Blue) to see how the rest of decals are placed.
- 7** **Su-25M1 31 Blue** **Destroyed in Combat during the Russian Invasion of Ukraine, 2022** **Ukrainian Air Force**
 Colors: FS 27885 for pale digital spots; FS 36495 for light gray digital spots; FS 36251 for medium gray digital spots; FS 35042 for dark gray digital spots; FS 35630 for underside; FS 36293 for radome; fins' tips; tips of wingtip; round triangle panel on nose.
 Note: You can use the right view of *a/c 6* (Su-25M1 30 Blue) to complete the camouflage of this a/c.
 Decals: **Coat of Arms 1** on two positions; **Small 31 blue** on two positions; **Eagle emblem** on right side only; **Squadron's badge** on two positions (on air intakes behind danger's triangle stencil); **Big 31 blue** on two positions; **Roundels** on four positions; **Small 31 white decal** on wings' tanks.
 Note: You can use the right view of *a/c 6* (Su-25M1 30 Blue) to see how the rest of decals are placed.
- 8** **Su-25SUB 62 Blue** **Air Show Radom 2011** **Ukrainian Air Force**
 Colors: FS 34259 + 5% FS 34151 Overall; FS 34086/34088 for spots; FS 14187 for fins' tips; tips of wingtip; round triangle panel on nose and edge of air intakes.
 Decals: **Coat of Arms 2** on two positions; **Eagle emblem** on right side only; **Squadron's badge** on two positions (on air intakes behind danger's triangle stencil); **Big 62 blue** on two positions; **Roundels** on four positions; **Small 62 white decal** on wings' tanks; **Shark Mouth** on two positions; **Eyes** on two positions.



General Notes to build digital camouflage Ukrainian MiG-29

- 1.- All the evidence in our research during the production of this project, shows that the patters of the digital camouflage of Ukrainian MiG-29 is unique for each a/c, **no two of them has the exact same pattern**. Take this in consideration when you built yours.
- 2.- We noticed digital camouflage of Ukrainian MiG-29 who wears the **Small Coat of Arms**, wears **M decal s/n** on fin, as shown in a/c 1.1 of the color instructive. This could not be the case for all the Ukrainian MiG-29 that wears the small coat of arms, but is the pattern we noticed, so check your references. The serial numbers of the Ukrainian MiG-29s with this variant will be shown in the first table below.
- 3.- We noticed digital camouflage of Ukrainian MiG-29 who wears the **Big Coat of Arms**, wears **S decal s/n** on fin, as shown in a/c 1.2 of the color instructive. This could not be the case for all the Ukrainian MiG-29 that wears the big coat of arms, but is the pattern we noticed, so check your references. The serial numbers of the Ukrainian MiG-29s with this variant will be shown in the second table below.
- 4.- In the tables below, consider all MiGs-29 as MiG-29S single-seater, unless the notes says is a MiG-29 UB twin-seater.

Table 1: Digital Camouflage Ukrainian MiG-29 with Small Coat of Arms

s/n	Additional Notes
02 White (blue edges)	
05 White (blue edges)	
06 White (blue edges)	
07 White (blue edges)	
08 White (blue edges)	
10 White (blue edges)	UB twin-seater version; the fin number is rounder in comparison to other a/cs fin numbers
15 White (blue edges)	
14 White (blue edges)	
16 White (blue edges)	
17 White (blue edges)	
19 White (blue edges)	
30 White (blue edges)	UB twin-seater version; the fin number is rounder and slim in comparison to other a/cs fin numbers
33 White (blue edges)	
40 White (blue edges)	UB twin-seater version
71 White (blue edges)	
72 White (blue edges)	
74 White (blue edges)	
77 White (blue edges)	

Table 2: Digital Camouflage Ukrainian MiG-29 with Big Coat of Arms

s/n	Additional Notes
02 Blue	
04 White (blue edges)	
30 White (yellow edges)	UB twin-seater version
30 White (blue edges)	UB twin-seater version; maybe no coat of arms or s/n number on fin
33 White (blue edges)	
41 Blue	
43 Blue	
45 Blue	
57 White (yellow edges)	No coat of arms or s/n number on fin
86 Blue	UB twin-seater version; no coat of arms or s/n number on fin
90 White (blue edges)	
99 White (blue edges)	UB twin-seater version



General Notes to build Ukrainian Su-25

1) Our research shows that, apparently, the Ukrainian Air Force has three color schemes for its Su-25. In the table below, we are indicating which color scheme the a/c wears with the following names to identify them:

- a) **Winter Clear.**- Same as a/cs 2 & 3 of the color instructive.
- b) **Winter Dark.**- Same as a/cs 6 & 7 of the color instructive.
- c) **Shamrock.**- Similar to a/c 8 of the addendum instructive. The colors can be different, check the notes in the table below to see this changes.

2) We noticed all **digital camouflage** Ukrainian Su-25 wears **Coat of Arms 1**, while **Shamrock** Ukrainian Su-25 wears **Coat of Arms 2**. This could not be the case for all the Ukrainian Su-25, but is the pattern we noticed, so check your references. Differences we notice will appear in the notes of the table below

In the table below, consider all Su-25 as single-seaters, unless the notes says is a UB twin-seater. Check your references.

Table 3: Ukrainian Su-25

s/n	Color Sheme	Additional Notes
07 Blue	Winter Dark	No number on fin
08 Blue	Winter Dark	No number on fin
16 Blue	Winter Clear	
20 Blue	Winter Clear	
21 Blue	Winter Dark	
32 Blue	Winter Clear	
37 Blue	Winter Dark	
39 Blue	Winter Dark	Photos of years previous to it shot down, shows this a/c with winter dark camouflage, but the photos of the destroyed a/c shows winter clear
41 Blue	Shamrock	Replace colors by the followings: FS 34138 overall; FS 34108 for spots
45 Blue	Shamrock	Coat of Arms 1; replace colors by the followings: FS 34138 overall; FS 34108 for spots, use slim "4" for s/n
47 Blue	Winter Clear	
62 Blue	Winter Dark	UB twin-seater version
63 Blue	Winter Dark	UB twin-seater version
67 Blue	Winter Dark	UB twin-seater version

General Notes to build Ukrainian Su-27

Our research shows that the camouflage pattern of all digital camouflage Ukrainian Su-27 is the same, with slight differences, so check your references.

In the table below, consider all Su-25 as single-seaters, unless the notes says is a UB twin-seater. Check your references.

Table 4: Ukrainian Su-27

s/n	Additional Notes
21 Blue	No evidence if it wears wing on left fin
37 Blue	No wing on left fin; maybe Ukraine emblem on left side
39 Blue	No wing on left fin
48 Blue	No evidence if it wears wing on left fin
56 Blue	No evidence if it wears wing on left fin
67 Blue	UB twin-seater; no clear evidence of which wing wears on left fin; Ukraine emblem on left side
70 Blue	UB twin-seater; white wing on left fin; Ukraine emblem on left side
71 Blue	UB twin-seater; no clear evidence of which wing wears on left fin; Ukraine emblem on left side
73 Blue	UB twin-seater; wing with blue soldier on left fin; Ukraine emblem on left side
101 Blue	Wing with blue soldier on left fin; Ukraine emblem on left side



Federal Standard Suggested Colors

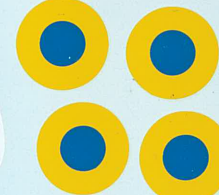
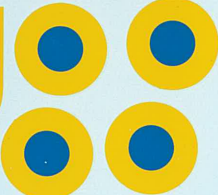
Federal Standard	Name	AK 3Gen Acrylic	Humbrol	AMMO mlg	Mr. Hobby	Revell	Tamiya	Testors	Vallejo
14187	Oxygen Tank Green	AK11140	-	0080	-	-	-	2028 / 1164TT	70.891
26099	Gray	AK11165	123	0235	C331	36174 / 36177	-	-	71.097 / 71.304
26295	Gray 510	-	116	-	-	-	-	-	70.989 / 72.749
26357	Gray	AK11210	129	0241	H82 / C332	-	-	4755	71.103 / 71.121
27885	White 506	-	-	-	-	-	-	-	-
34086	Army Forest Green	AK11021	31 / 241	-	C17 / C121	-	-	4885	71.292 / 70.830
34088	Olive Drab CARC	-	-	-	C22	36146	-	4728	71.043 / 71.015
34108	Dark Green Int.	-	76	-	C129	-	-	-	-
34138	Green	-	-	0080 / 0003	C122	36360	-	1164TT / 4852	70.833
34151	Interior Green	-	226	0220	-	-	-	-	-
34259	Green	-	-	0902 / 0006	-	-	-	-	70.978
35042	Sea Blue	-	243	0907	H68 / C61	-	XF-24 / XF-63	4749 / 1752	71.295 / 70.898
35180	Blue	-	-	-	-	-	-	1110TT / 4658	70.736
35250	UN Flag Blue	-	47	-	-	-	-	1162TT	-
35466	Blue	-	-	0224	-	-	-	-	71.317 / 70.961
35630	Blue	-	196	0119	H8 / C8 / C159	-	-	4765 / 4870	70.997
36251	Gray	-	126	0241 / 0246	C31	36175 / 3617	X-19	4754	71.339
36293	Gray	AK11210	64 / 167 / 129	0211 / 0241	H82 / C31	361766	-	-	71.335 / 71.046
36463	Gray	-	-	0075	-	-	-	1138TT	71.121
36495	Light Gray	-	147	0119	H51 / C90	36371	X-11	4762	70.997
36595	Gray	-	28	0226	-	-	-	4763	70.883



BLUE DEFENDERS



48-084



07

70

68

89

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MiG-29



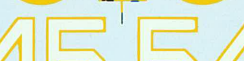
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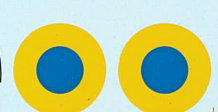
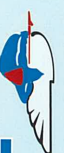
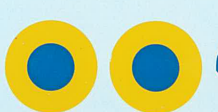
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