

Electronic equipment includes:

1. sighting equipment;
2. avionics;
3. radio equipment;
4. means of defense aircraft;
5. registration and control equipment.

Sighting equipment of the aircraft provides the solution of problems use of weapons against ground and air targets in terms of their visual appearance.

The composition sighting equipment includes:

1. Aviation Shooting bombsight TSA-17BTS providing aiming at shooting, bombing and missile launches day and night to visually see ground and air targets;
2. illumination and laser rangefinder station (Maple-PS (9, 17), which provides a measure of the slant range to the target for solving aiming and issuing it in sight, as well as guidance for SD and laser head guidance;
3. block matching devices;
4. forming apparatus control signals, provides the formation of electrical signals for deflecting mirror illumination range finding station and mobile brand sight proportional to manage impacts of the pilot.

Avionics.

The basis of navigation equipment and navigation system is a KH-23-1, which is designed to identify and issue a sighting and computing devices and indicator instruments navigation and piloting parameters necessary for flight and combat missions.

Navigation system provides:

1. continuous automatic reckoning coordinates aircraft according to autonomous vehicles;
2. perform shuttle flight to yield the intended target area, return to the aerodrome of landing, reduced to a height of pre maneuver, another approach;
3. definition and delivery of basic navigation and flight parameters.

Navigation system consists of:

1. inertial vertical line of SCR-1;
2. adiotekhnicheskoy system range navigation and landing (RSBN);
3. Doppler ground speed and the angle of the bevel. Besides the navigation system in the navigation equipment of the aircraft include:
4. vtomaticheskoy finder that provides driving the aircraft on the drive and broadcast stations, as well as the approach in the absence of ground-based system RSBN or failure of the system board;
5. air data system, providing consumers and for the issuance of true airspeed indicator, absolute and relative pressure altitude and Mach number of the flight;
6. altimeter low altitude;
7. marker radio receiver. Provides definitions of the time of flight of the aircraft over mareknym beacon;
8. sensors and slip angles ROV-3;
9. pitot pressure: basic - HP-18G-3M and reserve - LDPE - 7;
10. autonomous flight control and navigation devices in the cockpit.

Radio equipment.

Aircraft radio equipment provides radio communication with ground objects, and with the aircraft at all altitudes and radii of the aircraft.

The structure of the radio equipment includes:

- Connected radio R-862 is designed for radio telephone in the VHF and UHF frequency ranges between aircraft and ground facilities;

1. radio communication with the ground forces P-828, which provides radio telephone communication with control centers and individual troops moving objects. P-828 - compact multichannel VHF radio, which allows for bezpoiskovuyu bezpodstrochnuyu radio and within line of sight;
2. aircraft radar transponder system gosopoznovaniya;
3. aircraft responder SB-69, designed to meet the challenges of air traffic control on highways and in areas of airfields and radar systems operating with planting, detection and guidance;
4. antenna-feeder system; - Aircraft STC-intercom.

5. Aircraft defenses.
6. Aircraft defenses include:
 7. radar detection equipment operating;
 8. active jamming station;
 9. automatic setting of passive infra-red jammers and chaff.

Provide means of defense aircraft pilot warning about irradiation aircraft ground radar air defense missiles and enemy fighters. direction finding radar in different modes of radiation forecasting launches missiles [air-■ ■ and air-to-surface ■, creating jamming radar weapons control, creating interference missiles with infrared heat seekers.

Recording equipment and control.

Recording and monitoring equipment installed on the aircraft, comprising:

1. recording system parameters and modes of flight onboard systems [Tester-US ■;
2. fotokontrolny device NL-45;
3. Aviation Filming machine AKS-5;
4. aircraft MS-61M recorder.

[board system tester-US ■ designed for registering and maintaining flight data recorded flight information and save the recorded information in case of a flight coming. Post-flight deciphering recorded information allows us to estimate the work systems, and the trajectory of the aircraft's position in space. actions of the crew in flight.

The system is based registration parameters is magnetic recorder, which produces measurement.

To save the recorded information in the event of a flight accident, flight broaching mechanism with magnetic storage of information is placed in a special container.

Fotokontrolny device NL-45 is designed to verify the correctness of sight when working with an eye as in the combat use of weapons, and training purposes. Appliance is installed directly on the radar, which allows simultaneous recording goals and sight reticle.

Aviation Filming machine AKS-5 is in the forward fuselage and is designed to monitor the results firing cannons and missile launches.

MS-61M recorder designed for documenting crew talks with other parties, as well as records of call and special beacon signals.

Due assigned to attack duties he carries a powerful offensive weapon. During the development of the machine, as well as during its further modernization by the customer on the plane were installed more new weapons systems for enhancing the capabilities of Su-25.V embodiment avant-project LSSH plane had 6 underwing suspension points on which hung bombs, unguided rocket, suspended cannon installation and heating tanks, as well as one podfizyulyazhny suspension assembly, which placed or suspended cannon, or auxiliary fuel tank with a total mass kg.V 2500 version of the draft LVSSH plane already had almost similar to the characteristics of serial machines 10 hardpoints, powerful weapons with a total mass of 300 kg.

Weapons serial army attack aircraft consists of weapons ground and air targets and weapons control systems (LMS), which provides reliable engagement in various ways their conditions of visibility.

The aircraft has 10 nodes located under the wing of the suspension, eight of them are designed to load 500 kg, it carries various arms of the following types:

1. bombard;
2. guided missile;
3. unguided rocket;
4. cannon (artillery), and two others - guided missiles (SD) [air-■ melee. Bomber weapons placed on the beam holders CDD-25 or mnogozamkovyh beam holders MDB-2-67U.

Modifications :

Su-25	The first production version of gunship.
Su-25UB	Double training and combat aircraft
Su-25UT, Su-28	double training version
Su-25UBK	export version of the Su-25UB
Su-25UTG	Double plane landing technique for testing using ground and decked aerobatsplanes
Su-25BM	plane towing targets
Su-25K	export version of the Su-25.
Su-25T	anti-attack with new avionics and weapons

Su-25TK	export version of the Su-25T
Su-25T M, Su-39	Weatherproof anti Forward

LTH:

Modification	Su-25
Wingspan, m	14.36
Length, m	15.36
Height, m	4.80
Wing area, m2	33.70
Weight, kg	
Empty	9500
normal takeoff	14600
maximum take-off	17600
Fuel	
inner fuel kg	5000
PTB	2
Engine Type	2 THD R-195 (at first - R95SH)
Thrust, kN	2 x 44.13 (40.20)
Maximum speed, km / h	
at the ground	975
on high	M = 0.82
Range, km	1850
Combat radius, km	
on high	1250
at the ground	750
Ceiling, m	7000-10000
Max. Height combat use	5000
Max. operation overload	6.5
Crew	1
Armament:	one two-barrel 30mm GSh-30-2 at the bottom of the bow with 250 cartridges. Warload - 4340 kg for 8 (10) pylons, normal load - 1340 kg bomb load: Up to 8 laser-guided bombs, 8-10 500 - ,250-pound bombs, 32 100-pound bombs, armor-piercing bombs, napalm tanks NUR: 8-10 PU UB-32-57 (320 (252) x 57 mm) or 8-10 240-mm blocks NAR C-5 (57 mm) C-8 (80 mm) C-24 (240 mm) C-25 (340 mm). UR: air-P-3 (AA-2), or P-60 (AA-8) air-to-surface Kh-25ML, Kh-29L and S-25L containers SPPU dvuhstvolnoy-22 23-mm cannon GSH-23L with 260 rounds.

Extras. Information:

- [➔ Drawing "Dry Su-25 \(1\) "](#)
- [➔ Drawing "Sukhoi Su-25 \(2\) "](#)
- [➔ Drawing "Sukhoi Su-25 \(3\) "](#)
- [➔ Drawing "Sukhoi Su-25 \(4\) "](#)
- [➔ Article "Su-25 in Afghanistan,"](#)
- [➔ Article " Su-25 in Angola "](#)
- [➔ Article " Su-25 in the world "](#)
- [➔ Photos:](#)

	Layout LSSH
	LSVSH (T8)
	T8-1