Miltech Simulations U-2

Sensors

Everything the U-2S collects comes from the equipment you fit to it. There are five places to put it: the nose, the Q-bay behind the cockpit, the wing pods, the spine and the belly. You choose the fit on the EFB Aircraft tab, and this chapter tells you what each item is on the real aircraft and what it does in ours.



Where everything sits, drawn here with all of it fitted at once: ASARS-2 nose, Senior Ruby pods with Senior Spear, SPAN and the dorsal and belly sensors.

1. **Nose** - ASARS-2 radar, SYERS-2A camera or the Standard nose, which carries no sensor.
2. **Q-bay** - The optical bar camera (OBC), behind the cockpit. Standard nose only.
3. **Superpods** - Senior Ruby, Standard or none.
4. **Senior Spear** - An attachment on the left Senior Ruby pod.
5. **SPAN dorsal** - The satellite antenna fairing on the spine.
6. **Dorsal sensors 1-3** - Three small fairings behind the canopy.
7. **Belly sensor 4** - A fairing under the fuselage.

Note
Three sensors make pictures. The ASARS-2 radar, the SYERS-2A camera and the OBC are the working sensors, and you carry one at a time. Everything else on this page changes how the aircraft looks and what it weighs, and nothing more: signals intelligence is not simulated.
With the Standard nose and an empty Q-bay there is no imaging sensor at all, so the Mark IV panel is replaced by a blank plate.

NoseASARS-2 RadarSynthetic aperture radar: radar map, search and spot. The long nose with the intake on top. MFD RDR and ASR pages.Open the page →NoseSYERS-2A CameraElectro-optical and infrared camera, five bands. The nose with the window on its side. MFD CAM and SYR pages.Open the page →Q-bay, Standard noseOptical Bar Camera (OBC)Panoramic film camera behind the cockpit. It flies with the Standard nose, which has no sensor. MFD CAM and OBC pages.Open the page →

The Imaging Sensors Compared

	ASARS-2	SYERS-2A	OBC
What it is	Synthetic aperture radar	Electro-optical / infrared camera	Panoramic film camera
Where	Nose	Nose	Q-bay, with the Standard nose
Weight	1,000 lb	650 lb	1,050 lb + 300 lb nose
MFD pages (PME)	RDR, ASR	CAM, SYR	CAM, OBC
Picture	Radar map, search and spot	Five bands, color or black and white	Black-and-white film look
Range or zoom	SRCH 10 - 320 NM, SPOT 0.1 - 40 NM	0.5× - 73×, 90× in SWIR and MWIR	Up to 15×
Power	MODE STBY	MK IV MASTER, then MODE STBY	DRIFTSIGHT, then MK IV MASTER
Warm-up (Short / Realistic)	30 s / 12 min	30 s / 4 min	30 s / 90 s
Operate	MODE 1-5, once airborne	MODE 1-5	MODE OFF for the self-test, then 1-5
Lowest height	5,000 ft above the ground	1,000 ft above the ground	5,000 ft
Attitude limit	20° of bank, 10° of pitch	90° from the wings, 15° of pitch	None
Hand control	Moves the cursor or the patch	Aims it, 85° to the side, 15° fore / aft	Looks left and right, 45°
Darkness	No effect	Picture darkens, street lighting at night	Exposure follows the sun
Sim clouds and weather	No effect	No effect	No effect

All three work with targeting points, and all three build their pictures from online map data - see Mission Equipment (PME) if a picture stays black.

Related pages: Mission Equipment (PME) · Mark IV Camera Panel · Variants · Electronic Flight Bag (EFB)

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