

SAC Video Imaging System (SVIS)

Space Applications Centre of Indian Space Research Organisation has designed and developed a state of the art Video Imaging System called as “SVIS”. It is a space grade certified system that provides high resolution color images with higher frame rates.

SVIS consists of a CMOS based sensor, Camera, Digital card, DC-DC card along with Solid State Recorder. Solid State Recorder (SSR) is NAND flash based which is used to process high resolution image data transfer with higher frame rates. At present, this system is being used in the launch vehicles for capturing high resolution images with higher frame rates as and when required.

Salient Features

S/n	Parameters	Description
1.	Detector	1600 x 1200 (2M) CMOS sensor
2.	FOV & depth of field	50 deg; 600 mm minimum
3.	Frame Size/ resolution	1600 x 1200 (Maximum)
4.	Frame Size	~30 Mb (Before compression) ~1.5 Mb (After compression)
5.	On-board Storage capacity	~ 2 - 4 Gb
6.	Output data rate	Commensurate with DROPS Protocol (400-500 Kbps)
7.	Power	< 7 W
8.	Frame Rate	

Applications

- High resolution image data capture
- High frame rate data capture

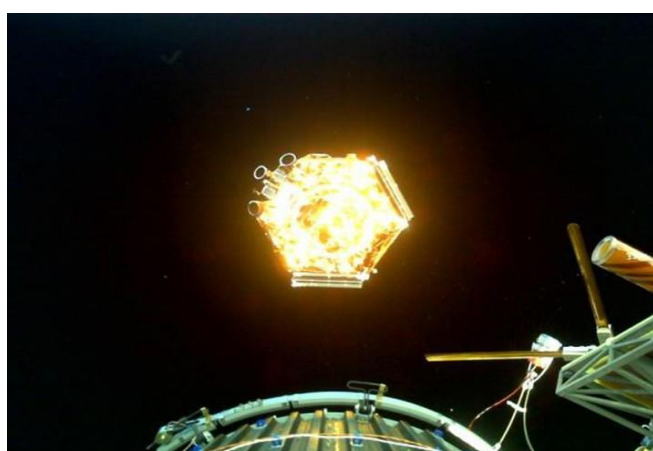
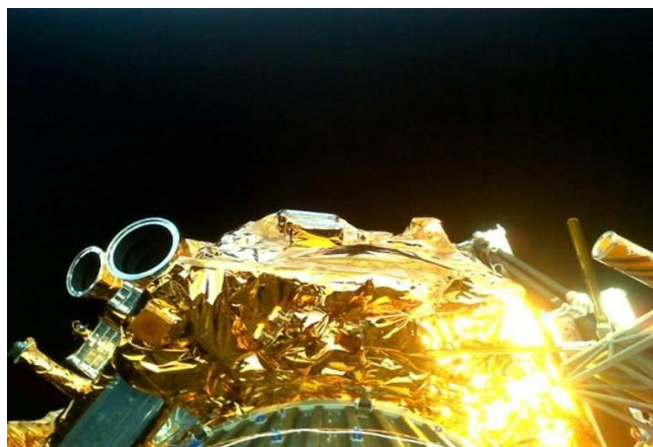


Image capture by onboard camera during payload separation

Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: