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Licensee Exempt from CUI Handling and Dissemination Restrictions

NOAA License to Operate a Private Remote Sensing Space System



The National Oceanic and Atmospheric Administration (NOAA), an agency of the U.S. Department of Commerce, hereby grants this Tier 1 license authorizing GITAI USA Inc. to operate SC1, a private remote-sensing space system comprised of 1 satellite with the following capabilities and described completely in Part D of this license:

Longwave Infrared (LWIR) (5,500 – 15,000 nm) at 83.18 m Ground Sample Distance (GSD)

Multispectral (MSI) (380 – 720 nm) at 268.57 m Ground Sample Distance (GSD)

Multispectral (MSI) (380 – 720 nm) at 116.38 m Ground Sample Distance (GSD)

Please submit any communications, including all communications required by the regulations at 15 CFR Part 960 and this license to:

Commercial Remote Sensing Regulatory Affairs (CRSRA)
1401 Constitution Avenue, NW, Room 31027
Washington, DC 20230
Email: crsra@noaa.gov

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Part A: Determination and License Grant

The National Oceanic and Atmospheric Administration, an agency of the U.S. Department of Commerce, acting pursuant to authority delegated by the Secretary of Commerce (the Secretary), determines that GITAI USA Inc., as described in Part C of this license, will comply with the requirements of the Land Remote Sensing Policy Act of 1992, as amended, codified at 51 U.S.C. 60101 et seq., (hereinafter “Act”), the regulations promulgated thereunder, 15 CFR Part 960 (“the regulations”); and the conditions in this license.

Accordingly, NOAA hereby grants GITAI USA Inc. (hereinafter “Licensee”), as described in Part C of this license, this license to operate SC1 (hereinafter “the System”), as described in Part D of this license, subject to the terms and conditions of this license. This license is valid until its term ends in accordance with the regulations. The Licensee must request and receive approval for a license modification before taking any action that would contradict a material fact listed in Part C or D of this license.

NOAA makes this determination, and grants this license, under the authority delegated to him by the Secretary of Commerce. The Secretary's authority is found in the Act and the regulations. This license does not authorize the System's use of spectrum for radio communications or the conduct of any non-remote sensing operations that are proposed to be undertaken by the Licensee. This license is not alienable and creates no property right in the Licensee.

IN WITNESS THEREOF, I hereby grant this License:

Sarah C. Brothers, Ph. D.
Director, Commercial Remote
Sensing Regulatory Affairs

Date

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Part B: Tier 1 License Conditions

The Licensee must, at all times:

1. Comply with the Act, the Regulations, this license, applicable domestic legal obligations, and the international obligations of the United States.
2. Operate the system in such manner as to preserve the national security of the United States and to observe international obligations and policies, as articulated in conditions included in this license.
3. Upon request, offer to the government of any country (including the United States) unenhanced data collected by the system concerning the territory under the jurisdiction of such government without delay and on reasonable terms and conditions, unless doing so would be prohibited by law or license conditions.
4. Upon termination of operations under the license, make disposition of any satellites in space in a manner satisfactory to the President.
5. Notify the Secretary in writing of each of the following events, no later than seven days after the event:
 - i. The launch and deployment of each system component, to include confirmation that the component matches the orbital parameters and data collection characteristics of the system, as described in Part D of the license;
 - ii. Each disposal of an on-orbit component of the system;
 - iii. The detection of an anomaly; and
 - iv. The licensee's financial insolvency or dissolution;
6. Request and receive approval for a license modification before taking any action that would change a material fact in the license.
7. Certify that all material facts in the license remain accurate pursuant to the procedures in § 960.14 no later than October 15th of each year.
8. Cooperate with compliance, monitoring, and enforcement authorities described in the Act and this part, and permit the Secretary to access, at all reasonable times and with no shorter notice than 48 hours, any component of the system for the purpose of ensuring compliance with the Act, this part, and the license.
9. Refrain from disseminating unenhanced data, or processed data or products derived from the licensee's system, of the State of Israel at a resolution finer than the resolution most recently specified by the Secretary in the Federal Register as being available from commercial sources.
 - i. The most recent resolution specified by the Secretary is 0.4 m GSD, please see FR Doc.2020-15770, publish date: July 21, 2020.

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Part C: Description of Licensee

Every term below constitutes a material fact. You must request and receive approval of a license modification before taking any action that would contradict a material fact.

1. General Licensee Information:

a. Name of Licensee:

GITAI USA Inc.

b. Location and address of Licensee:

2255 Dominguez Way

Torrance, CA 90501

c. Licensee contact information:

info@gitai.tech, 424-587-1787

d. Contact information for a specific individual to serve as the point of contact with Commerce:

Nicolas "Cole" Garda, Project Manager - Space Systems

GITAI USA Inc.

2255 Dominguez Way

Torrance, CA 90501

cole.g@gitai.tech, 504-444-9707

e. Place of incorporation and, if incorporated outside the United States, confirmation that the Licensee acknowledged as part of the application that the Licensee will operate its system within the United States and is therefore subject to the Secretary's jurisdiction under 15 CFR Part 960:

GITAI USA Inc. is incorporated in Delaware

2. Identity of any subsidiaries and affiliates playing a role in the operation of the System, including a brief description of that role:

N/A - no subsidiary or affiliate will play a role in the operation of the system. Operation will be entirely the responsibility of GITAI USA Inc.

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Part D: Description of System**

Name of System: SC1

1. Brief mission description:

SC1 is a single 16U spacecraft in low Earth orbit that will carry a total of one IR camera, and two wide field of view RGB cameras for the purpose of SC1 system monitoring, specifically monitoring the 1U tethered target cube.

The SC1 will be deployed from an XTERRA XCD 16U Cubesat Deployer on a SpaceX Falcon 9 launch vehicle, as part of the Bandwagon-2 Rideshare Mission, to its maximum orbit of 510km, at approximately 45 degree inclination.

No imaging will be performed until SC1 is deployed into its final orbit. The final orbit will be achieved no later than 2 hours after launch. No orbit-raising will be performed.

SC1 will only image the SC1 tethered target (which is tethered to the main spacecraft by a polyester cord). It will not image any other artificial resident space objects. The IR camera, and two wide field of view RGB cameras will all be used to image the target.

The purpose of imaging the 1U tethered target with all of the instruments noted above, is to demonstrate that GITAI can determine the orientation and distance of the target. GITAI will turn on and calibrate the sensors prior to deployment of the tethered target. Aside from this calibration, no other images will be collected. The entire calibration and imaging activity will take place over a period of several days.

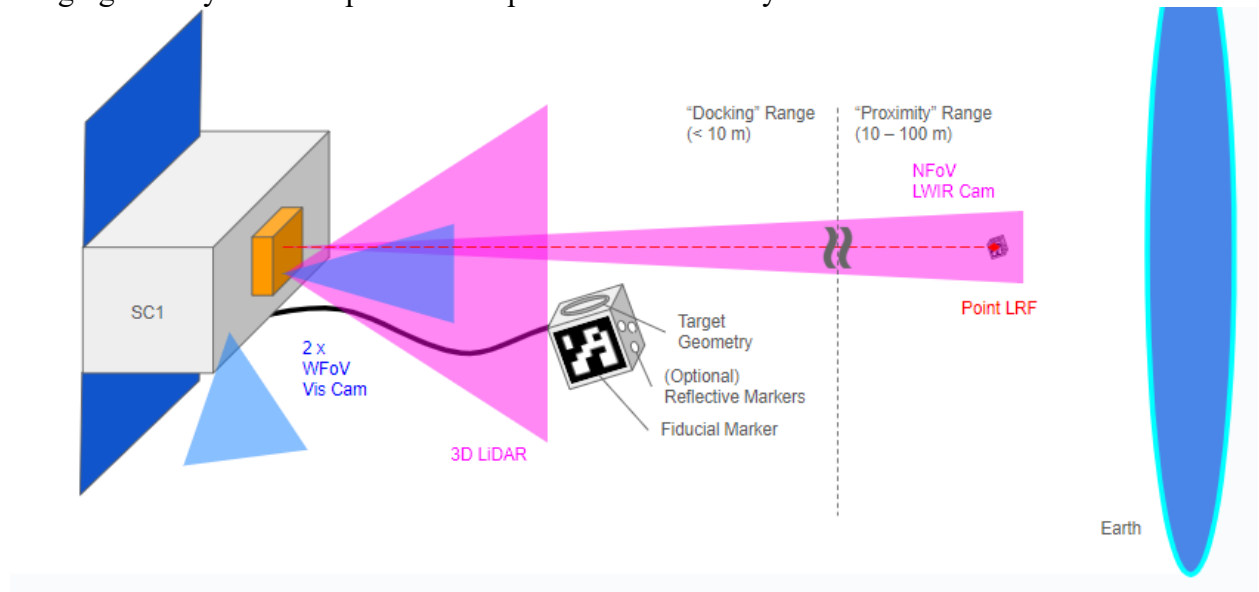


Figure 1 SC1 Concept of Operations

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2. Remote Sensing Instrument(s) parameters (for each sensor):

Sensor type	Imaging/frame rate (FPS)	Spatial resolution (m)	Spectral range (nm)	Collection volume (km ² /unit of time)
LWIR	8.6	83.18	5,500 – 15,000	22,634
MSI 1	53	268.57	380 – 720	219,244
MSI 2	53	116.38	380 – 720	95,006

- a. Ability of the remote sensing instrument to slew, point, or digitally look off-axis from the x, y, and z axes of travel:
All instruments are fixed in place on the spacecraft

3. If any entity or individual other than the Licensee will own, control, or manage any *remote sensing instrument* in the System:

Name	Address	Number	Relationship
N/A	N/A	N/A	N/A

4. Spacecraft Upon Which the Remote Sensing Instrument(s) is (are) carried

a. Description:

- i. The SC1 spacecraft, shown in figure 2, is a single unit 16U cubesat (an overall dimension of 20 cm X 20 cm X 40 cm.) The total mass will be 19.68 ± 1 kg., with an embedded deployable 1U tethered target (shown in Figure 1).
- ii. The SC1 spacecraft includes an on-board Dawn .8U cubedrive with Green Bipropellant (N₂O+Propylene) and a self-pressurizing tank. The propulsion system is on board to gain flight heritage, on orbit testing and calibration. No significant orbit changing is planned.

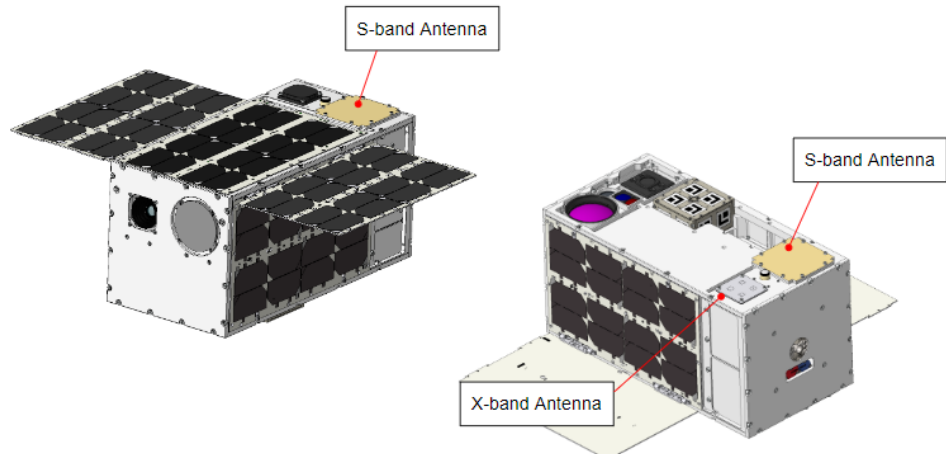


Figure 1 SC1 16U Spacecraft

- b. Estimated launch date(s) in calendar quarter:
Manifested for launch in Q4 2024

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c. Number of spacecraft (system total and maximum in-orbit at one time):

1

d. For each spacecraft, provide the following (or if an entire constellation will have substantially the same orbital characteristics, provide these values for the entire constellation and note whether or not all spacecraft will be evenly spaced):

Spacecraft or Constellation Characteristics			
Altitude (km)	Inclination (°)	Orbital Period (min)	Longitude (°)
506-510	43.9-46.1	95	TBD
Eccentricity	Argument of perigee (°)	Propulsion	
<0.004	TBD	Yes	

e. Ability of the spacecraft to slew, point, or digitally look off-axis from the x, y, and z axes of travel:

Yes, SC1 has three-axis stabilization and can rotate 360° about all axes

5. If any entity or individual other than the Licensee will own, control, or manage any *spacecraft* in the System

Name	Address	Number	Relationship	Citizenship Status
N/A	N/A	N/A	N/A	N/A

6. Ground Components: See Ground Station Appendix

7. If any entity or individual other than the Licensee will own, control, or manage any *mission control center(s)* with the ability to operate the System

Name	Address	Number	Relationship
N/A	N/A	N/A	N/A

8. Information Applicable to Multi-Spectral Imaging (MSI) and/or Hyper-Spectral Imaging (HSI).

Number of spectral bands	Individual spectral bandwidths
MSI 1: 3	380-700, 380-720, 380-720
MSI 2: 3	380-700, 380-720, 380-720

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Ground Station Appendix

NOAA must approve any Ground Station prior to the commencement of operations.

Type	Location	Coordinates
MCC	GITAI USA Inc. 2255 Dominguez Way Torrance, CA 90501	
Domestic		
	N/A	
Foreign		
RGT	Leaf Space Azercosmos OJSCO Primary Ground Control Station Shamakhi Highway 38th km. Baku Absheron, Azerbaijan	
RGT	Leaf Space Address NA. Still under development. La Paz, Mexico	
RGT	Leaf Space SupremeSAT (PVT) LTD, Kandy Industrial Park BOI Zone, Kengalle, Pallekele, Kandy Teleport, Sri Lanka	
RGT	Leaf Space 282 Sangdae-ri, Hallim-eup Jeju, South Korea	
RGT	Leaf Space 781 Colyer Road Invercargil, Awarua, New Zealand	
RGT	Leaf Space Santa Maria Ground Station, Rua Assomada - Monte das Flores, 9580-471 Vila do Porto, Santa Maria, Azores, Portugal	
RGT	Leaf Space Teleport "Plana", ul. "Stambolova reka", 1475 Plana, Bulgaria	
RGT	Leaf Space Portion 293, 369-JR Boschkop Rd, Pretoria, 0040, Sudafrica, Pretoria, South Africa	
RGT	Leaf Space Depot Hill Rd, West Casuarinas WA 6522, Australia Nangetty, Western Australia	
RGT	Leaf Space Sector Río Seco, kilómetro quince Ruta Nueve Norte de la Comuna de Punta Arenas, Punta Arenas, Región de Magallanes y la Antártica Chilena Punta Arenas, Chile	

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Administrative Record Appendix

<u>Date</u>	<u>Description of Administrative Action Taken</u>
1. 5/17/24	Issuance of License