



" FAIR ACCESS TO SPACE "

SMART EYES IN THE SPACE
KOMPSAT

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 **SI IMAGING SERVICES**




Online catalogue search
<http://ksatdb.kari.re.kr/airang>



SI Imaging Services

Exclusive representative of KOMPSAT image.
Also distributor of TelEOS-1 and Deimos-2 image.

VHR Satellite images




With the resolution up to 40cm, KOMPSAT constellation spots small features clearly and detects changes over sites.

Operations



We run KOMPSAT operation by our own including imaging plan, image processing, calibration, validation and so on.

Direct Receiving System



It is a flexible and modular system for acquisition, archiving, processing, analysis and distribution of KOMPSAT image.

SI Group
SI Group creates synergy and provides customized services with the collaboration.

SI (Sateco Initiative)



Satellite manufacturer
Satellite platform
Payload
Ground station

SIS (SI Imaging Services)



Satellite imagery provider
KOMPSAT representative
VHR optical and SAR
KOMPSAT operation

SIA (SI Analytics)



Geospatial analytics provider
Artificial intelligence
Dataset building
Analytic platform



KOMPSAT (Korea Multi-Purpose Satellite) Program

National space development program
Developed and operated by KARI

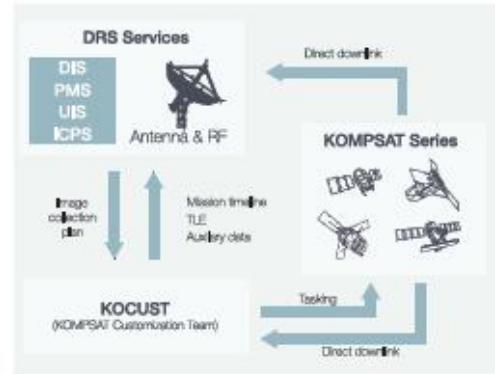
KOMPSAT Constellation operation



EO	KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A, KOMPSAT-7
SAR	KOMPSAT-5, KOMPSAT-6

Direct Receiving System

KOMPSAT Direct Receiving Station(DRS) is a full ground station with antenna system and ground station terminal.



KOMPSAT DRS provides
Planning for KOMPSAT series image acquisition
Direct reception & archiving of KOMPSAT satellite downlink
Standard product and catalog generation



To be launched

KOMPSAT-6 (SAR)
Resolution Sub-meter class
Launch Scheduled for 2020



KOMPSAT-7 (EO)
Resolution PAN 0.3m, MS 1.2m
Launch Scheduled for 2021



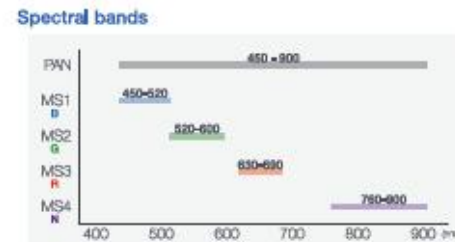
KOMPSAT-3A

VHR EO

Product resolution
PAN : 0.4 m MS : 1.6 m
@ altitude 528 km (nadir)

Orbit
Sun synchronous orbit

Location accuracy
6.20 m RMSE, < 9.40 m CE 90 with POD/PAD



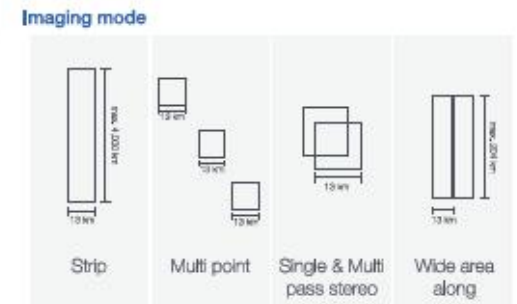
Data quantization
14 bits / pixel

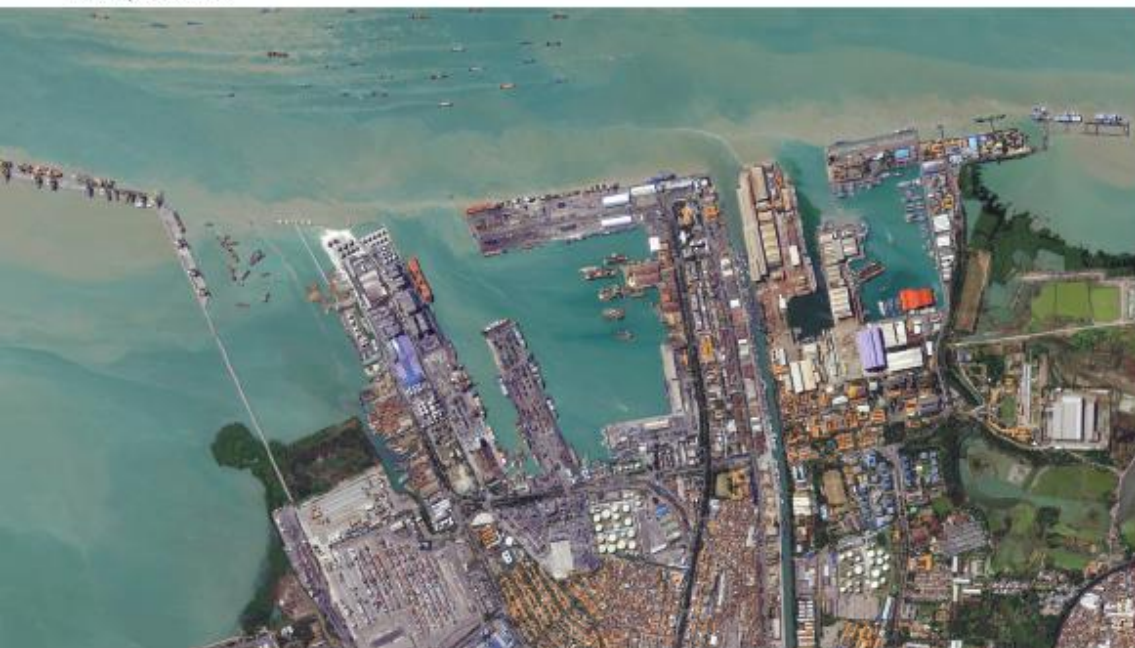
File format
GeoTIFF

Map projection / Datum
UTM / WGS84

MLTAN
13:30 (local time)

Swath width
13 km (nadir)





KOMPSAT-3

VHR EO

Product resolution

PAN : 0,5 m MS : 2,0 m
 @ Altitude 685.13 km (nadir)

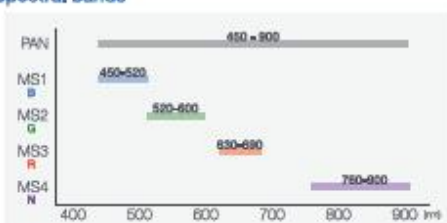
Orbit

Sun synchronous orbit

Location accuracy

19.9 m RMSE, < 30,19 m CE 90 with POD/PAD

Spectral bands



Data quantization

14 bits / pixel

File format

GeoTIFF

Map projection / Datum

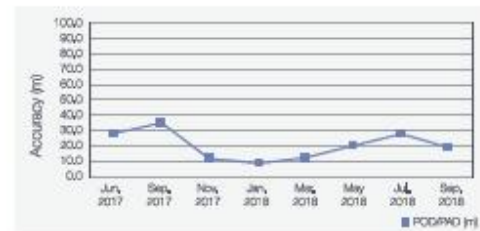
UTM / WGS84

MLTAN

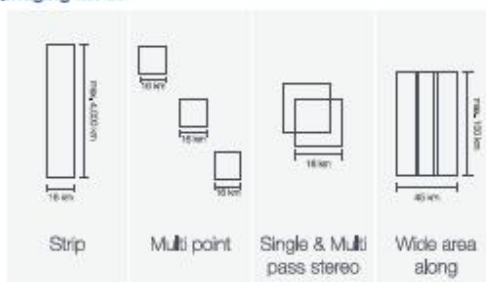
13:30 (local time)

Swath width

16 km (nadir)



Imaging mode



KOMPSAT-5

X-band SAR

Map projection / Datum

UTM / WGS84

Altitude

550 km

File format

HDF5 / GeoTIFF

MLTAN

06:00 / 18:00 (local time)

Location accuracy

Location (Geometric)	Ground resolution		
	ES	BH	UH
6,22 m CE 90	< 2,5 m	< 1 m	< 0,85 m

Orbit

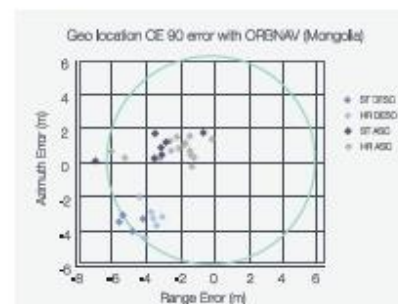
Dawn-dusk orbit

Orbit cycle

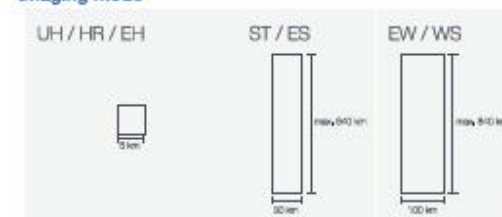
28 days

Imaging mode		GSD *	Swath *	Polarization
Spotlight	LH Ultra HR	0,85 m	5 km	Single Polarization (HH, HV, VH, WW)
	EH Enhanced HR	1 m		
	HR High Resolution			
Strip	ES Enhanced Strip	2.5 m	30 km	
	ST Strip	3 m		
Wide swath	EW Enhanced WS	20 m	100 km	
	WS Wide Swath			

* @ nominal incidence angle of 45°



Imaging mode





KOMPSAT-2

VHR EO

Product resolution

PAN : 1.0 m MS : 4.0 m
 © Altitude 685 km (nadir)

Orbit

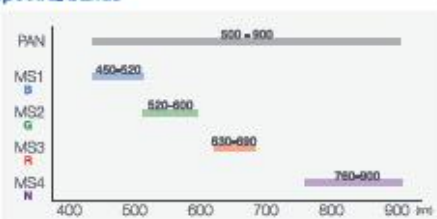
Sun synchronous orbit

KOMPSAT-2 Archive coverage

Since July 28, 2006



Spectral bands



Data quantization

10 bits / pixel

File format

GeoTIFF

Map projection / Datum

UTM / WGS84

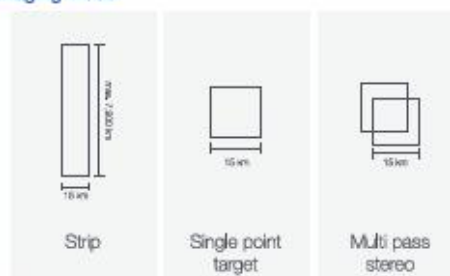
MLTAN

10:50 (local time)

Swath width

15 km (nadir)

Imaging mode



Our resellers



- Argentina** Imagenes Geograficas
- Austria** GeoVista Group
- Azerbaijan** Azercosmos
- Bangladesh** Bridge Computer Technologies
- Bahrain** AEROMAP TECHNOLOGY SYSTEMS
- Belgium** GIM nv
- Bolivia** CMS S.R.L
- Brazil** EngeSat, Globalgeo Geotecnologias Ltda., Novatera Sensoria mento Ramoto, TECTERRA GEOTECNOLOGIAS, Terragraph, VisaoGeo, Visoia Tecnologia Espacial
- Bulgaria** Remote Sensing Application Center (ReSAC)
- Canada** Effigis Geo Solutions, MDA corporation., PhotoSat, SkyWatch
- Chile** GeoSolution, Imagenes Satelitales Globales Ltda (Imagen-Sat), OrionData
- China** BEIJING SPACE EYE INNOVATION TECHNOLOGY CO., LTD, Beijing Space View Technology Co., Ltd, Beijing Vastitude Technology Co., Ltd
- Colombia** GeoSpatial
- Costa Rica** DIT Space Sociedad De Responsabilidad Limitada
- Czech Republic** GISAT s.r.o
- Denmark** DHI Grass A/S
- Egypt** GeoMAP Consultants
- Ecuador** GeoSpace Solution
- France** Geo4i, Geosys Co.,Ltd, Latitude Geosystems
- Germany** CloudEO AG, GAF AG, German GeoConsultants Group(3G)
- Greece** TotalView
- Hong Kong** Geocarto International Centre Ltd,
- Hungary** GeoData Services Ltd.
- India** Excel Geomatics Pvt. Ltd.
- Indonesia** Barrata Global Technology, PT, Integrasia Utama
- Israel** Imagesat: International NV
- Italy** e-GEOS Sp.a, Sysdeco Italia s.r.l
- Japan** INFOERVE INC, PASCO CORPORATION
- Kazakhstan** Kazakhstan Gharysh Sapary
- Kenya** SPATIALMAPS CONSULTING LIMITED, Orbital Africa
- Lebanon** Fugro Middle East Aerial Photogrammetric Services(M.A.P.S.) sml Part of (Fugro Geospatial Services) Group, GIS/Transport, Ltd.
- Malaysia** Satellite Imaging sdn Bhd
- Mexico** Cloud Mapping Technologies, S.A. de C.V.
- Mongolia** ZOLOTON LLC
- Mozambique** AFOLUTE SIG LDA
- Myanmar** Innayar Geospatial Services Co., Ltd.
- Nepal** B.G General Suppliers
- Netherlands** GEOSERVE B.V.
- Nigeria** Aerial-View Solutions
- Norway** KONGSBERG Satellite Services AS, Terranor
- Pakistan** SANDHU ENGINEERING and TRADING CORPORATION(SETC)
- Peru** Geo Eclax, SPACEDAT PERU S.A.C
- Philippines** SkyMap Global Philippines Inc.
- Poland** ProGeo 4D sp. z o.o.
- Qatar** Ideal Solutions
- Republic of Korea** Gas3D, GEO C&I, HASANKONG, Hojung Solution, INDYWARE
- Russia** Geo-Alliance, INNOTER LTD, Prime Group, R&D Center ScanEx, Racurs JCSC, SOVZOND Company Ltd.
- Saudi Arabia** Orbits Engineering Firm
- Serbia** Advanced Groundwater Technologies
- Singapore** ST Engineering Electronics Ltd, SkyMap Global Pte. Ltd.
- South Africa** Landsat Mapper, SCS GI
- Spain** Daimos Imaging, S.L.U.
- Sri Lanka** Geoplus Solutions pte ltd
- Taiwan** Lotus
- Tajikistan** Design and Research Institute "Fazo"
- Thailand** GISIDA
- Turkey** JEODLITAL BILISIM TEKNOLOJI MADENCILIK INSAAT TAAHUT SANAYI TICARET LIMITED SIRKETI, NIK Insaat Ticaret Ltd, Sii
- United Arab Emirates** Dolphin Air, Gistec, Gulf Geo Information Solutions FZC, Gulf Survey and Engineering Services (GISTEC)
- Ukraine** Earth Observing System, TMS-INFO LTD
- United Kingdom** Brainn Wave Limited, CGG NPA Satellite Mapping, EARTH-H LTD., GeoCento Ltd, Satellite Terrain Engineering Ltd, Terrabotics Ltd.
- United States** AllSource Analysis, APOLLO MAPPING LLC, BlackSky, Digital Globe, East View Geospatial, Inc., LAND INFO Worldwide Mapping, LLC, Map Mart, Orbit Logic Incorporated, Urso Space Systems Inc.
- Venezuela** Mattie Engineers
- Vietnam** GedInfo Vietnam Co. Ltd., GeoViet Consulting Co., Ltd.