

# CASSIS LIST OF ACRONYMS

**Doc.No: EXM-CA-LIS-UBE-00001**

**Issue: 1**

**Revision: 3**

**Date: 27. Jun. 2019**

<b>Instrument name:</b>	Colour and Stereo Surface Imaging System (CaSSIS)
<b>Origin Name:</b>	Physikalisches Institut, Universität Bern
<b>WBS code:</b>	N/A
<b>Package code:</b>	N/A
<b>Restrictions:</b>	N/A

	<b>Name</b>	<b>Signature</b>	<b>Date</b>
<b>Checked by</b>	Ruth Ziethe Project Manager		
<b>Approved by</b>	Nicolas Thomas Principal Investigator		



## Table of Contents

Document Change Record .....	2
List of documents .....	4
Scope of the Document .....	5
1 List of Acronyms .....	6

## List of documents

Applicable documents		
AD01	EXM-PL-IRD-ESA-00003 Issue 2 Rev 0 TGO E-IRD (JCCB - Signed)	Experiment Interface Requirements Document

## Scope of the Document

This document provides an extensive list of acronyms that will/can be used in documents referencing this list.

## 1 LIST OF ACRONYMS

Acronym	Meaning
ABCL	As-Built Configuration List
AC	Alternating Current
ADP	Acceptance Data Package
AIT	Assembly, Integration and Test
AIV	Assembly, Integration and Verification
AL	Acceptance Load
AM	Applicability Matrix
AME	Absolute Measurement Error
AO	Announcement of Opportunity
APE	Absolute Pointing Error
ATB	Avionics Test Bench
ATR	Acceptance Test Review
AU	Astronomical Unit (150'000'000 km = average Earth-Sun-Distance)
BoL	Beginning of Life
CAD	Computer Aided Design
CCC	Cleanliness and Contamination Control
CCD	Charge Coupled Device
CDMU	Command and Data Management Unit
CDR	Critical Design Review
CFRP	Carbon Fiber Reinforced Polymer
CIL	Critical Item List
CMD	Command
COA	Certificate of Acceptance
COC	Certificate of Conformity
CoG	Centre of Gravity
Co-I	Co Investigator
Co-PI	Co Principal Investigator
CPU	Central Processing Unit
DCL	Declared Components List
DH	Data Handling
DHS	Data Handling System
DLF	Design Load Factor

Acronym	Meaning
DLL	Design Limit Load
DML	Declared Materials List
DP	Development Plan
DPL	Declared Processes List
DR	Design Report
DRB	Delivery Review Board
DSM	Deep Space Manoeuvre
DTMM	Detailed Thermal Mathematical Model
ECR	Engineering Change Request
ECSS	European Cooperation for Space Standardisation
EDL	Entry, Descent and Landing
EDM	EDL Demonstrator Module
EEE	Electronic, Electrical and Electro-mechanical
EGSE	Electrical Ground Support Equipment
E-ICD	Experiment Interface Control Document
EIDP	End Item Data Package
EIM	Electrical Interface Model
EIP	Experiment Implementation Plan
E-IRD	Experiment – Instrument Requirements Document
E-IRD	Experiment Interface Requirements Document
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interface
EMTGO	ExoMars Trace Gas Orbiter
EN	European Norm
ENV	Environment
EoL	End of Life
EoM	End of Mission
EOP	Experiment Operations Plan
EPPL	ESA preferred Parts List
EPSA	Electrical Parts Stress Analysis
ERD	Environmental Requirements Document
ESA	European Space Agency
ESAC	ESA data Archiving Centre
ESOC	ESA Space Operations Centre
ESTEC	European Space Research and Technology Centre
ESTRACK	European Space Tracking Stations (ESA)

Acronym	Meaning
ESW	EGSE Software
ESWT	ExMars Science Working Team
ETB	Engineering Test Bed
ETM	Electrical Test Model
ETRR	Environmental Test Readiness Review
FBD	Functional Block Diagram
FDD	Functional Design Description Document
FDIR	Failure Detection Isolation and Recovery
FDIS	Failure Detection Isolation and Safing
FEM	Finite Element Model
FFT	Full Funtional Test
FFTr	Fast Fourier Transform
FM	Flight Model
FMEA	Failure Modes and Effects Analysis
FMECA	Failure Modes and Effects and Citalcity Analysis
FO	Flight Operations
FOP	Flight Operations Plan
FOS	Factor of Safety
FOSU	Ultimate Factor of Safety
FoV	Field of View
FOV	Field of View
FPA	Focal Plane Assembly
FRD	Funtional Requirements Document
FS	Flight System
FSA	Filter Strip Assembly
FSp	Flight Spare
FTA	Fault Tree Analysis
GD	Ground Design
GDIR	General Design and Interface Requirement
GDS	Ground Data System
GEN	General
GMM	Geometrical Mathematical Model
GNC	Guidance, Navigation and Control
GND	Ground
GP	Gate Product
GS	Ground Segment



Acronym	Meaning
GSE	Ground Support Equipment
H/W	Hardware
HA	Hazard Analysis
HGA	High Gain Antenna
HK	Housekeeping
HR	High Resolution (imaging)
I/F	Interface
I2R2	Instrument Integration Readiness Review
ICD	Instrument Control Document
I-CDR	Instrument Critical Design Review
ICE	Interface Support Electronic
ICR	Instrument Confirmation Review
IDB	Instrument Data Base
IDR	Instrument Delivery Review
IDS	Instrument Data Sheet, Interdisciplinary Scientist
IFM	Instrument Front End Model
I-IRR	Instrument Integration Readiness Review
I-ORR	Instrument Organization Readiness Review
IP	In Plane (wrt mounting plane)
I-PDR	Instrument Preliminary Design Review
I-QR	Instrument Qualification Review
IR	Informative Reference
IRD	Interface Requirement Document
ISM	Instrument Software Model
ISO	International Standard Organization
ISW	Instrument Software
ITAR	International Trade In Arms Regulation
ITMM	Interfance Thermal Mathematical Model
LEOP	Launch and Early Operations Phase
LGA	Low Gain Antenna
MA	Mission Assurance
MCI	Mass, Centre of gravity, inertia
MCS	Mission Control System
MF	Maturity Factor
MGSE	Mechanical Ground Support Equipment
MLI	Multi-Layer Insulation

Acronym	Meaning
MLI	Multi Layer Insulation
MMM	Maturity Mass Margin
MOC	Mission Operation Centre
Mol	Moment of Inertia
MOI	Mars Orbit Insertion
MoS	Margin of Safety
MOS	Mission Operations System
MPS	Mission Planning System
MRC	(Spacecraft) Master Reference Cube
MRO	Mars Reconnaissance Orbiter
MTF	Modulation Transfer Function
NCR	Non-conformance Report
NR	Normative Reference
NRB	Non conformance Review Board
OBSW	On Board Software
OM	Orbiter Module
OMB	Orbiter Module Bus
ORR	Operational Readiness Review
P/L	Payload
PA	Product Assurance
PCDU	Power Control and Distribution Unit
PDHU	Power and Data Handling Unit
PDR	Preliminary Design Review
PDS	Planetary Data System
PDU	Power Distribution Unit
PFM	Proto Flight Model
PI	Principal Investigator
PM	Project Manager
PMM	Power Maturity Margin
POW	Power and Electrical
PP	Planetary Protection
PIIP	Planetary Protection Implementation Plan
PPL	Preferred Parts List
PPP	Platform Pointing Performances
PRD	Payload Requirements Document
PS	Project Scientist

Acronym	Meaning
PSA	Parts Stress Analysis
PSD	Power Spectral Density
PT	Product Tree
PTFE	Poly-Tetra-Flouro-Ethylene
PTR	Pointing Request
PUS	Packet Utilisation Standard
QA	Quality Assurance
QL	Qualification Load
QM	Qualification Model
QR	Qualification Review
QSL	Quasi Static Load
RFA	Request for Approval
RID	Review Item Discrepancy
RMP	Risk Management Plan
RPE	Relative Pointing Error
RSR	Rotation Support Ring
RTMM	Reduced Thermal Mathematical Model
S/C	Spacecraft
SA	Solar Array
SAA	Sun Aspect Angle
SAM	Sun Aquisition Mode
SCC	Spacecraft Composite
SDP	Software Development Plan
SGSE	Special Ground Support Equipment
SIRP	System Interface Reference Point
SMA	Safety and Mission Assurance
SMAR	Safety and Mission Assurance Requirements
SMM	Structural Mathematical Model
SMU	System Management Unit, Spacecraft Management Unit
SO	Solar Occultation
SOC	Science Operations Centre
SOM	Spacecraft Operations Manager
SoW	Statement of Work
SPA	Software Product Assurance
SRD	Software Requirements Document
STIM	Stimulation Lamps Interface

Acronym	Meaning
STM	Structural and Thermal Model
STR	Star Tracker
SW	Software
SWT	Science Working Team
TAA	Technical Assistance Agreements
TAS-F	Thales Alenia Space, France
TAS-I	Thales Alenia Space, Italy
TBC	To be confirmed
TBD	To be Determined
TBW	To be written
TC	Telecommand Channel
TEB	Tender Evaluation Board
TGO	Trace Gas Orbiter
TIF	Technological Interface
TLM	Telemetry
TLS	The Telescope Line of Sight
TM	Telemetry Channel
TMM	Thermal Mathematical Model
TRL	Technical Readiness Level
TRP	Thermal Reference Point
TV	Thermal Vacuum
UBE	University of Bern
URF	Unit Reference Frame
V&V	Verification and Validation
VCD	Verification Control Document
WBS	Work Breakdown Structure
WCA	Worst Case Analysis
WG	Working Group