



TELESCOPE FOR SPACE APPLICATIONS

Honeywell

TELESCOPE FOR SPACE APPLICATIONS

The Honeywell Telescope for space applications is an optimized solution for optical communications, Quantum Key Distribution and earth observation missions.

It is designed for volume production and can equally be customized to meet higher requirements for lower production volumes.

The telescopes are available in on-axis and off-axis variants with reflective or Catadioptric configurations and functional over multi-wavelengths and able to provide two-way optical path for transmit and receive signals for any OISL Terminal. All telescopes incorporate high performance all-aluminum mirrors, optimized to for mass, athermal, and thermal stability and alignment under launch and on-orbit environments. A proven assembly and alignment approach allows for low WFE telescopes to be produced in high volumes up to 100 units/Month



TELESCOPE SPECIFICATIONS

	On-axis	Off-axis (3 and 4 mirror options)
Aperture/magnification	140-250mm/14x	80-140mm/10x-13.3x
Spectral band	980nm/1555nm	Multi wavelength/All reflective
WFE (FOV +/-3mrad)	<120nm	<100nm RMS (FOV +/-3 to 5 arcmin)
Transmission	>90%	>92%
Backscattering	<-40db	<-40db
Temperature range (op/survival)	+75°/-5°C operation +75°/-25°C survival	+75°/ -30°C operation +75° to - 50°C survival
Radiation (TID)	200kRad	200kRad
Vibration/Shock	QSL >150G / random >28Grms/ peak shock >1800g	QSL 60G / random >28Grms/ shock >1120g
Lifetime (storage/in-orbit)	10 years storage/ 12 years in-orbit	10 years storage/ 12 years in-orbit
Size/mass	Ø199mm x 182mm / 1200g max	<2U/<2000g

MAIN FEATURES

- Off-axis or on-axis design custom solution
- Design capability includes flexures and interface design that will allow strain-free assembly and integration of telescope and management of a variety of variable interfaces and challenging applications
- Volume production, 5 to 20 units per day
- ITAR free

For More Information

To find out more about our offering, visit aerospace.honeywell.com/en/product-listing/space or contact us at aero.marketing@honeywell.com

Honeywell Aerospace

1944 E. Sky Harbor Circle
Phoenix, AZ 85034
aerospace.honeywell.com

N61-2549-000-000 | 09/2020
© 2020 Honeywell International Inc.

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell