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## HBK-2: S-and Ext C-band antenna

• Slew rate: 10°/sec

• Dish diameter: 12m

• Tracking mode: Program and Autotrack

Polarisation: LCP and RCP

#### Receive

• Frequency range: 2.2–2.4 GHz

• G/T: 22.4 dB/°K

#### Transmit 1

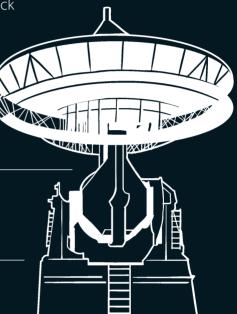
• Frequency range: 6.8–7.2 GHz

• EIRP: 88dBW

#### Transmit 2

• Frequency range: 2.025–2.12 GHz

EIRP: 71dBW

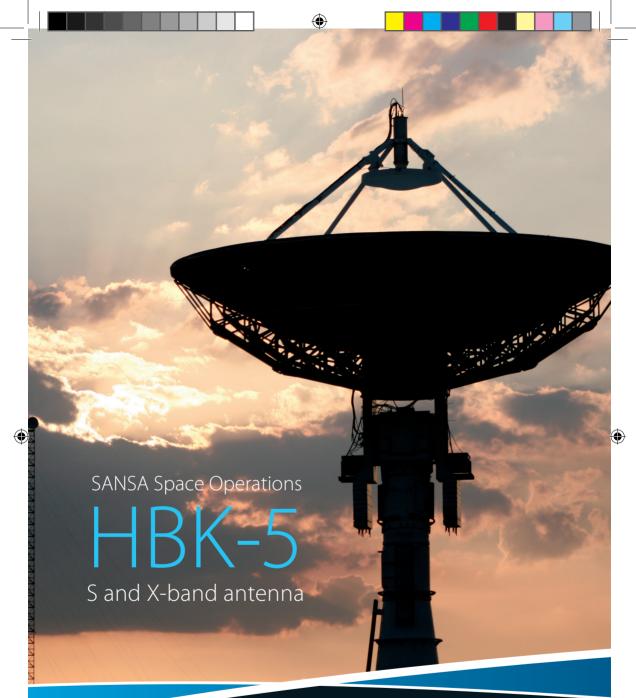


SANSA Space Operations manages more than 22 antennas and a number of ground stations at its facility at Hartebeesthoek, South Africa. This includes the full-motion TT&C antennas and five remote sensing systems across all frequency bands and mobile support in S-band.

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## HBK-5: S, X-band antenna

- Slew rate: 10°/sec
- Dish diameter: 10m
- Tracking mode: Program and Autotrack
- Polarisation: LCP and RCP



- Frequency range:
  - Rx1: 2.2–2.4 GHz [G/T: 22.4 dB/°K]
  - Rx2: 8.0–8.4 GHz [G/T: 31.0 dB/°K]



- Frequency range: 2.025–2.10 GHz
- EIRP: 65dBW

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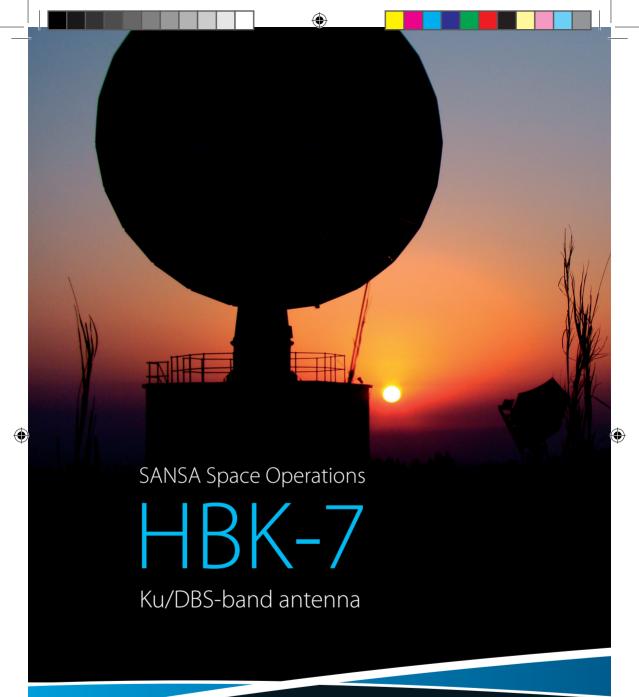




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## HBK-7: Ku/DBS-band antenna

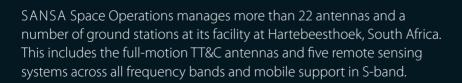
- Slew rate: 2°/sec
- Dish diameter: 13.2m
- Tracking mode: Program and Autotrack
- Polarisation: Circular and Linear

#### Receive

- Frequency range: 10.95–12.75 GHz
- G/T: 38.25 dB/°K (@12.75 GHz)



- Frequency range:
  - Tx1: 12.75–14.5 GHz EIRP: 91dBW
  - Tx2: 17.3-18.1 GHz EIRP: 92.6dB

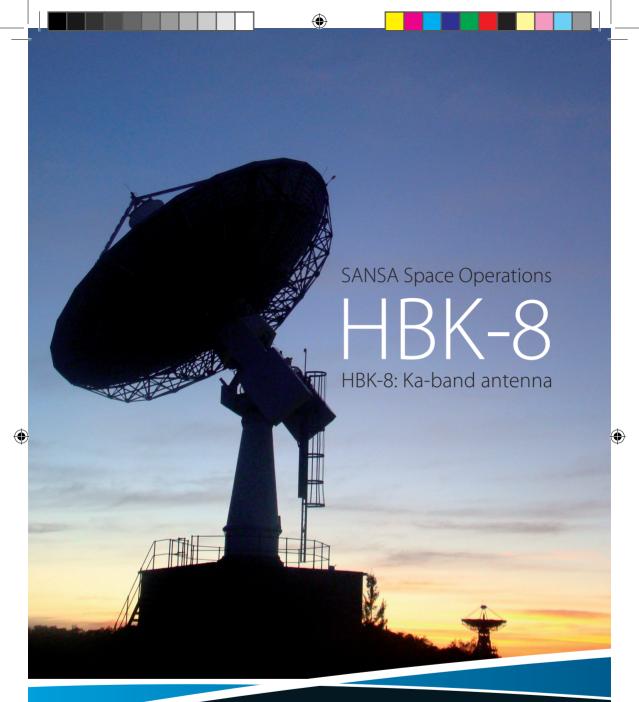




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## HBK-8: Ka-band antenna

• Slew rate: 2°/sec

Dish diameter: 13.2m

Polarisation: Circular and Linear

• Tracking mode: Program and Autotrack

#### Receive

• Frequency range: 17.7–21.2 GHz

• G/T: 41.8 dB/°K

• Tracking frequency: 18.3 – 21.2 GHz

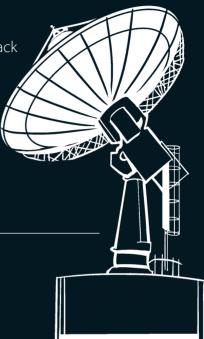
#### **Transmit**

• Frequency range:

• Tx1: 27.5 – 30 GHz

EIRP: 93dBW

• Tx2: 27.5 – 31 GHz FIRP: 87dBW

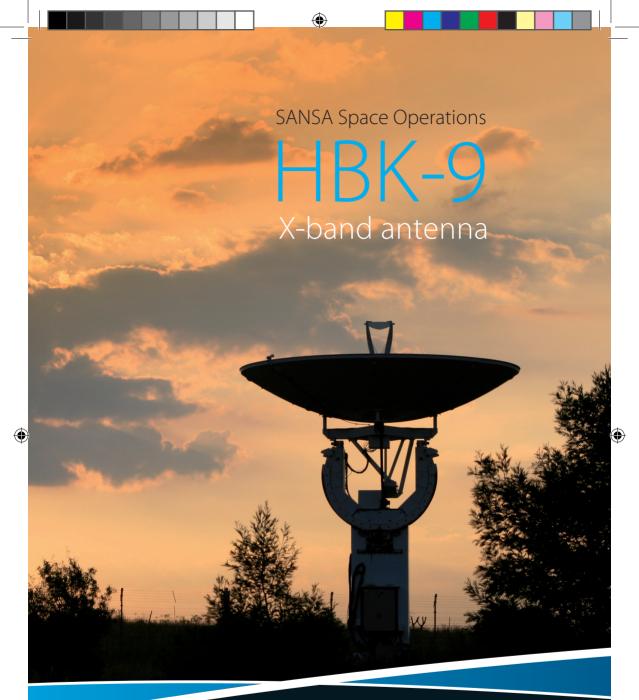


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## HBK-9: X-band antenna

• Slew rate: 3°/sec

Dish diameter: 5.4m

Tracking mode: Program and Autotrack

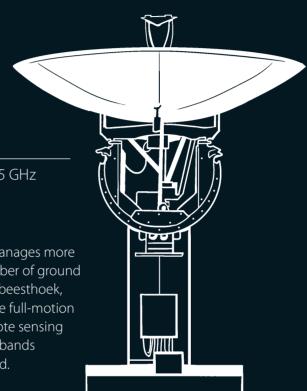
Polarisation: RCP

#### Docoivo

• Frequency range: 8.0–8.5 GHz

• G/T: 30.5 dB/°K

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## HBK-10: C-band antenna (designated Pre-15T by Intelsat)

• Slew rate: 5°/sec Azimuth, 1.4°/sec Elevation

Dish diameter: 11m

Tracking mode: Program and Autotrack

Polarisation: Circular

#### Receive

- Frequency range: 3.625–4.2 GHz
- G/T: 31.7 dB/°K

#### **Transmit**

- Frequency range: 5.85 6.425 GHz
- EIRP: 89.5dBW



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# HBK-16

X-band antenna

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## HBK-16: X-band antenna

Slew rate: 3°/sec

Dish diameter: 7.3m

 Tracking mode: Program and Autotrack

Polarisation: LCP and RCP

#### Receive

• Frequency range: 8.0–8.5 GHz

• G/T: 32.2 dB/°K

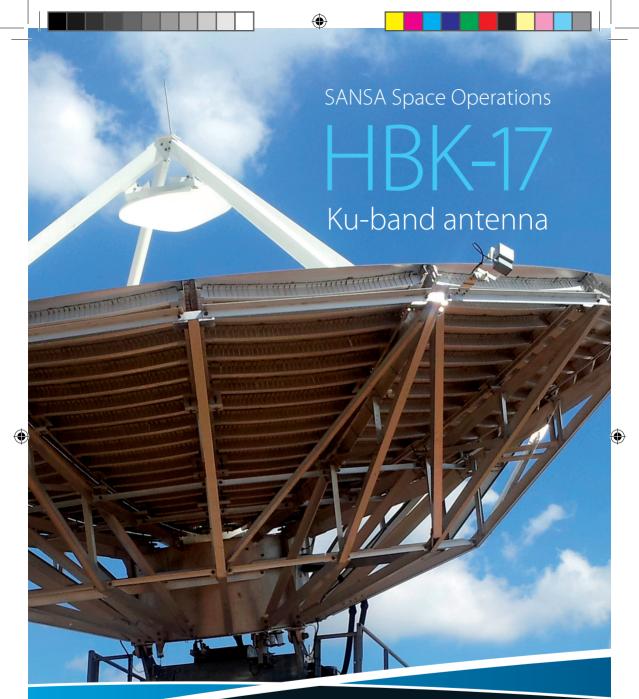
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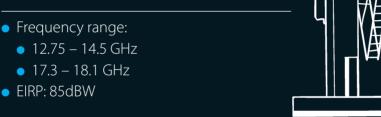


## HBK-17: Ku-band antenna

- Slew rate: 2°/sec
- Dish diameter: 9m
- Tracking mode: Program and Autotrack
- Polarisation: Linear and Circular

- Frequency range: 10.95–12.75 GHz
- G/T: 35 dB/°K

- Frequency range:



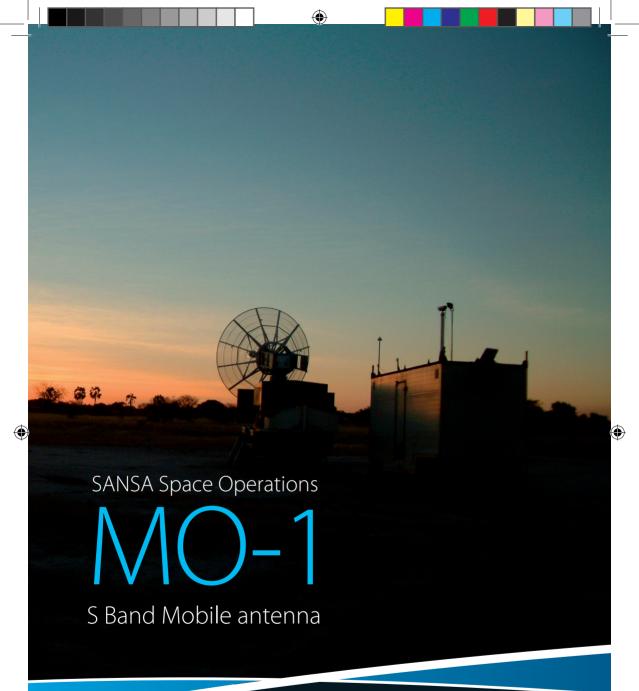
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manages more than 22 antennas and a number of ground stations at its facility at Hartebeesthoek, South Africa. This includes the full-motion TT&C antennas and five remote sensing systems across all frequency bands and mobile support in S-band.

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## MO-1: S Band Mobile antenna

- Slew rate: 20°/sec
- Dish diameter: 15ft
- Tracking mode: Program and Autotrack
- Polarisation: LCP and RCP

#### Receive

- Frequency range: 2.2 2.4 GHz
- G/T: 11.6 dB/°K



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