

Table 1: MeerKAT final system properties

Number of dishes <sup>a</sup>	80 (central array) + 7 (spur)
Dish diameter	12 m
Aperture efficiency	0.7
System temperature	30 K
Low frequency range <sup>a</sup>	0.58–2.5 GHz
High frequency range <sup>a</sup>	8–14.5 GHz
Field of view	1 deg <sup>2</sup> at 1.4 GHz 6 deg <sup>2</sup> at 580 MHz 0.5 deg <sup>2</sup> at 2 GHz
$A_e/T_{sys}$	200 m <sup>2</sup> /K
Continuum imaging dynamic range <sup>b</sup>	1:10 <sup>5</sup>
Spectral dynamic range <sup>b</sup>	1:10 <sup>5</sup>
Instrumental linear polarisation purity	–25 dB across field
Minimum and maximum bandwidth per polarization <sup>a</sup>	8 MHz–4 GHz
Number of channels	16384
Minimum sample time	0.1 ms
Minimum baseline	20 m
Maximum baseline	8 km (without spur) 60 km (with spur)

Notes: *a*: Final values. See Table 2 for roll-out schedule.

*b*: Dynamic range defined as rms/maximum.

Table 2: MeerKAT Phasing Schedule

	KAT-7 2010	Phase 1 2013	Phase 2 2014	Phase 3 2015	Phase 4 2016
Number of dishes	7	80	80	87	87
Low freq. range (GHz)	1.2–1.95	0.9–1.75	0.9–1.75	0.9–1.75	0.58–2.5
High freq. range (GHz)	—	—	8–14.5	8–14.5	8–14.5
Maximum processed bandwidth (GHz)	0.256	0.850	2	2	4
Min. baseline (m)	20	20	20	20	20
Max. baseline (km)	0.2	8	8	60	60