

YFR-01 is a pulsed Doppler system tricoordinate radar with azimuth sweep + pitch frequency sweep, which is mainly used to detect and locate low-altitude aircraft.

qualification		YFR-01B	YFR-01C
Radar band		Ku	Ku
Technical system		chirp	chirp
scanning mode		Azimuth machine sweep + pitch frequency sweep	Azimuth machine sweep + pitch frequency sweep
detection range	Typical Target (DJI Genie 4)	≥3km	≥5km
Pitch cover		0° ~ 40°	0° ~ 40°
Detection accuracy	distance	≤8m	≤8m
	position	≤0.6°	≤0.6°
	cabrage	≤0.6°	≤0.6°
data transfer rate		6s	6s
target capacity		Admidia 500 batches	Admidia 500 batches
weight		≤27 kg	≤27 kg
size		≤610×270×440 (mm)	≤610×270×440 (mm)
power dissipation		≤120W	≤160W
Set up the way		Fixed, on-board, portable	Fixed, on-board, portable



YFR-02 is a pulsed Doppler system three-coordinate radar with azimuth sweep + pitch sweep, which is mainly used to detect and locate low-altitude aircraft.

qualification		YFR-02A	YFR-02B	YFR-02C
Radar band		X	X	X
Technical system		chirp	chirp	chirp
scanning mode		Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
surve y distance	Typical Target (DJI Genie 4)	≥4km	≥5km	≥8km
cove rage area	position	0° ~ 30°	0° ~ 30°	0° ~ 30°
	cabrage	0° ~ 360°	0° ~ 360°	0° ~ 360°
surve y accur acy	distance	≤8m	≤8m	≤8m
	position	≤0.8°	≤0.6°	≤0.5°
	cabrage	≤1°	≤0.6°	≤0.5°
data transfer rate		6s	6s	3s
target capacity		Admidia 500 batches	Admidia 500 batches	Admidia 500 batches
weight		≤26kg	≤30kg	≤66kg
size		≤800×270×370 (mm)	≤850×330×440 (mm)	≤980×450×650 (mm)
power dissipation		≤160W	≤220W	≤400W
		Fixed on board	Fixed on board	Fixed type, vehicle-



YFR-02 is a pulsed Doppler system three-coordinate radar with azimuth sweep + pitch sweep, which is mainly used to detect and locate low-altitude aircraft.

qualification		YFR-02C-ku	YFR-02D	YFR-02D-ku
Radar band		ku	X	ku
Technical system		chirp	chirp	chirp
scanning mode		Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
detection range	Typical Target (DJI Genie 4)	≥6km	≥10km	≥10km
coverage area	position	0° ~ 360°	0° ~ 360°	0° ~ 360°
	cabrage	0° ~ 30°	0° ~ 30°	0° ~ 30°
Detection accuracy	distance	≤8m	≤8m	≤8m
	position	≤0.5°	≤0.4°	≤0.3°
	cabrage	≤0.5°	≤0.3°	≤0.3°
data transfer rate		3s	3s	6s
target capacity		Admidia 500 batches	Admidia 500 batches	Admidia 500 batches
weight		≤85kg	≤100kg	≤100kg
size		≤750×400×780 (mm)	≤900×450×960 (mm)	≤1140×370×900 (mm)
power dissipation		≤980W	≤1200W	≤800W



YFR-03 is a pulsed Doppler system tri-frame radar with azimuth aircraft scanning + pitch DBF system, which can detect and locate low-altitude aircraft.

qualification		YFR-03B	YFR-03B-Ku
Radar band		X	Ku
Technical system		DBF	DBF
scanning mode		Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
survey distance	Typical Target (DJI Genie 4)	≥5km	5km
coverage scope	position	0° ~ 360°	0° ~ 360°
	cabrage	0° ~ 30°	0° ~ 30°
survey accuracy	distance	≤8m	≤8m
	position	≤0.5°	≤0.5°
	cabrage	≤0.5°	≤0.5°
data transfer rate		2s	2s
target capacity		Admidia 500 batches	Admidia 500 batches
weight		≤60kg	≤50kg
size		≤1000×380×600 (mm)	≤900×400×532 (mm)
power dissipation		≤800W	≤800W
Set up the way		Fixed type, vehicle-type	Fixed type, vehicle-type



YFR-03 is a pulsed Doppler system triframe radar with azimuth aircraft scanning + pitch DBF system, which can detect and locate low-altitude aircraft.

qualification		YFR-03D	YFR-03E	YFR-03F (under development)
Radar band		ku	X	ku
Technical system		DBF	DBF	DBF
scanning mode		Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
survey distance	Typical Target (DJI Genie 4)	≥10km	≥12km	≥15km
coverage scope	position	0° ~ 360°	0° ~ 360°	0° ~ 360°
	cabrage	0° ~ 30°	0° ~ 30°	0° ~ 30°
survey accuracy	distance	≤8m	≤8m	≤8m
	position	≤0.3°	≤0.3°	≤0.25°
	cabrage	≤0.3°	≤0.3°	≤0.25°
data transfer rate		2s	2s	2s
target capacity		Admidia 500 batches	Admidia 500 batches	Admidia 500 batches
weight		≤95kg	≤100kg	≤100kg
size		≤760×450×870 (mm)	≤1050×430×950 (mm)	≤1140×400×900 (mm)
power dissipation		≤800W	≤1500W	≤2000W
Structure		Fixed type, vehicle-	Fixed type, vehicle-	Fixed type, vehicle-



YFR-04 is a two-dimensional pulse Doppler system. It is mainly used for complex urban environment detection, and individual battlefield monitoring.

qualification		YFR-04A	YFR-04B	YFR-04C
Radar band		K a	X	X
Technical system		chirp	chirp	chirp
scanning mode		Azimuth phase sweep + pitch phase sweep	Azimuth phase sweep + pitch phase sweep	Azimuth phase sweep + pitch phase sweep
surve y distance	Typical Target (DJI Genie 4)	≥2 km	≥3km	≥6 km
cover age scop e	position	±45°	±45°	±45°
	cabrage	0° ~ 30°	0° ~ 50°	0° ~ 50°
surve y accur acy	distance	≤8m	≤8m	≤8m
	position	≤0.3°	≤0.5°	≤0.5°
	cabrage	≤0.3°	≤0.5°	≤0.5°
Data Rate (TAS)		0.5s	0.5s	0.5s
target capacity		Admidia 500 batches	Admidia 500 batches	Admidia 500 batches
Weight (single face)		≤15kg	≤12 kg	≤25kg
size		≤450×350×135 (mm)	≤350×350×155 (mm)	≤450×450×150 (mm)
power dissipation		≤500 W	≤400W	≤600W
		Fixed airborne on-	Fixed, vehicle-	Fixed on-board



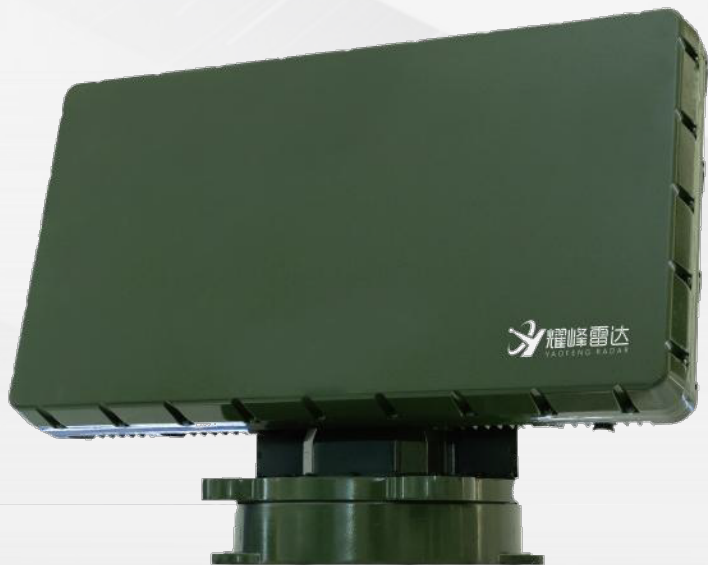
YFR-04 is a two-dimensional pulse Doppler system. It is mainly used for complex urban environment detection, and individual battlefield monitoring.

qualification		YFR-04C-Ku	YFR-04D
Radar band		Ku	Ku
Technical system		chirp	chirp
scanning mode		Azimuth phase sweep + pitch phase sweep	Azimuth phase sweep + pitch phase sweep
survey distance	Typical Target (DJI Genie 4)	≥5 km	≥8 km
coverage scope	position	±45°	±45°
	coverage	0° ~ 50°	0° ~ 30°
survey accuracy	distance	≤8m	≤8m
	position	≤0.5°	≤0.3°
	coverage	≤0.5°	≤0.4°
Data Rate (TAS)		0.5s	0.5s
target capacity		Admidia 500 batches	Admidia 500 batches
Weight (single face)		≤22 kg	≤40 kg
size		≤350×350×150 (mm)	≤550×400×150 (mm)
power dissipation		≤600 W	≤1500W
Set up the way		Fixed, on-board, portable	Fixed, on-board, portable



The YFR-05 is a two-dimensional electric minesper that can detect and locate targets such as subsonic, supersonic drones or projectiles.

qualification		YFR-05D
Radar band		Ku
Technical system		chirp
scanning mode		Azimuth phase sweep + pitch frequency sweep
detection range	Typical Target (RCS=0.01m ²)	≥3km
Target speed		10~940m/s
Pitch cover		≥0~10°
Azimuth coverage		±45°
Detection accuracy	distance	≤8 m
	position	≤0.3°
	cabrage	≤0.3°
TAS target capacity		Five batches of oneself
data transfer rate		0.2S
weight		≤100kg
size		≤1140×370×900 (mm)
power dissipation		≤800W



The YFR-06 type radar can detect and locate the vehicles and personnel on the ground. Mainly used for the border, the coastline of the security protection.

qualification		YFR-06A
Radar band		Ku
Technical system		chirp
scanning mode		Azimuth machine sweep / frequency sweep
Detection distance (electrosweep mode)	personnel	≥5km
	vehicle	≥10km
coverage area	Electric sweep	±45°
	Machine sweep	0° ~ 360°
Detection accuracy	distance	≤8m
	position	≤0.4°
data transfer rate		10S
target capacity		Admidia 500 batches
weight		≤30kg
size		≤700×290×450 (mm)
power dissipation		≤160W



YFR-11 radar is a pulsed Doppler system three-coordinate radar with azimuth sweep + pitch sweep, which is mainly used to detect and locate low-altitude aircraft and ground mobile vehicles and personnel.

qualification			YFR-11B	YFR-11C
Radar band			X	X
Technical system			chirp	chirp
scanning mode			Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
detection range	Open-ground integrated surveillance mode	Typical Target (DJI Genie 4)	≥5km	≥8km
		personnel	≥7km	≥10km
		vehicle	≥15km	≥20km
Pitch cover			0° ~ 30°	0° ~ 30°
Detection accuracy	distance		≤8m	≤8m
	position		≤0.6°	≤0.5°
	cabrage		≤0.6°	≤0.5°
data transfer rate			6S	6S
target capacity			Admidia 500 batches	Admidia 500 batches
weight			≤30kg	≤66kg
size			≤850×330×440 (mm)	≤980×450×650 (mm)
power dissipation			≤220W	≤400W
Set up the way			Fixed, on-board, portable	Fixed type, vehicle-type



YFR-12 is a pulse Doppler system radar that can detect and locate the UAV and surface ships at the same time, mainly used for the safety protection of the coastline.

qualification		YFR-12B
Radar band		X
Technical system		chirp
scanning mode		Azimuth machine sweep + pitch phase sweep
	DJI Spirit 4 drone	≥5km
detection range	RCS=2m ²	≥15km
	RCS=10m ²	≥23km
	RCS=100m ²	≥40km
coverage area	position	0° ~ 360°
Detection accuracy	distance	≤8m
	position	≤0.3°
data transfer rate		3s
target capacity		Admidia 500 batches
weight		≤70kg
size		≤1800×435×475 (mm)
power dissipation		≤400W
Set up the way		Fixed type, vehicle-type



YFR-13 three-coordinate radar of pulsed Doppler system with azimuth sweep + pitch phase sweep system can detect and locate low-altitude flying objects (unmanned aerial vehicles and birds), which is mainly used in the field of bird sentiment prevention and control in airports.

qualification		YFR-13C	YFR-13D	YFR-13E
Radar band		X	ku	X
Technical system		/	DBF	DBF
scanning mode		Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep	Azimuth machine sweep + pitch phase sweep
surve y dista nce	Typical target (500g pigeon)	≥5km	≥7km	≥8km
cover age scop e	position	0° ~ 360°	0° ~ 360°	0° ~ 360°
	cabrage	0° ~ 30°	0° ~ 30°	0° ~ 30°
surve y accur acy	position	≤0.5°	≤0.3°	≤0.3°
	cabrage	≤0.5°	≤0.3°	≤0.3°
data transfer rate		3s	2s	2s
target capacity		Admidia 500 batches	Admidia 500 batches	Admidia 500 batches
weight		≤66kg	≤85kg	≤100kg
size		≤980×450×650 (mm)	≤760×450×870 (mm)	≤1050×430×950 (mm)
power dissipation		≤400W	≤1000W	≤1200W
Set up the way		Fixed type, vehicle-type	Fixed type, vehicle-type	Fixed type, vehicle-type