



Satellite TV
with automatic
pointing



KZ220 - Complete kit powered by 220V voltage

KZ12 - Complete kit with including an inverter 12V/220V

Ready to use kit

Selfpointing motorized Kit for TV receiving via satellite. The motor, the dish, and the LNB are pre-cabled, it's sufficient to mount the motor on top of the tripod, connect the cables and will start the automatic satellite pointing.

Mobile installations

This Kit is designed for mobile installations, it includes a dish with folding feedarm and a tripod easy to transport. Ideal wherever there is a need to watch TV in different places each time, for example:

- Camping
- Hiking
- Temporary installations in residential resort
- Camper



For use on camper, the advantage of using the tripod than installing on the roof is the freedom to place the antenna in a place free of obstacles, with the 20 meter cable included you can leave the antenna in a free zone, to always have the maximum signal.

The kit is also available in versions with 12V/220V inverter to power the receiver by connecting to the cigarette lighter of any vehicle.

Fixed installations

The kit is also useful for fixed installations, because you can set the motor bracket on any pole, wall or balcony available on the market, rather than use a tripod adapter. This will greatly reduce installation costs due to the intervention of a professional installer, the kit is selfpointing.



Automatic Pointing

The system is selfpointing, This means that the satellite tracking is automatic and with maximum precision. To do this, two simple steps:

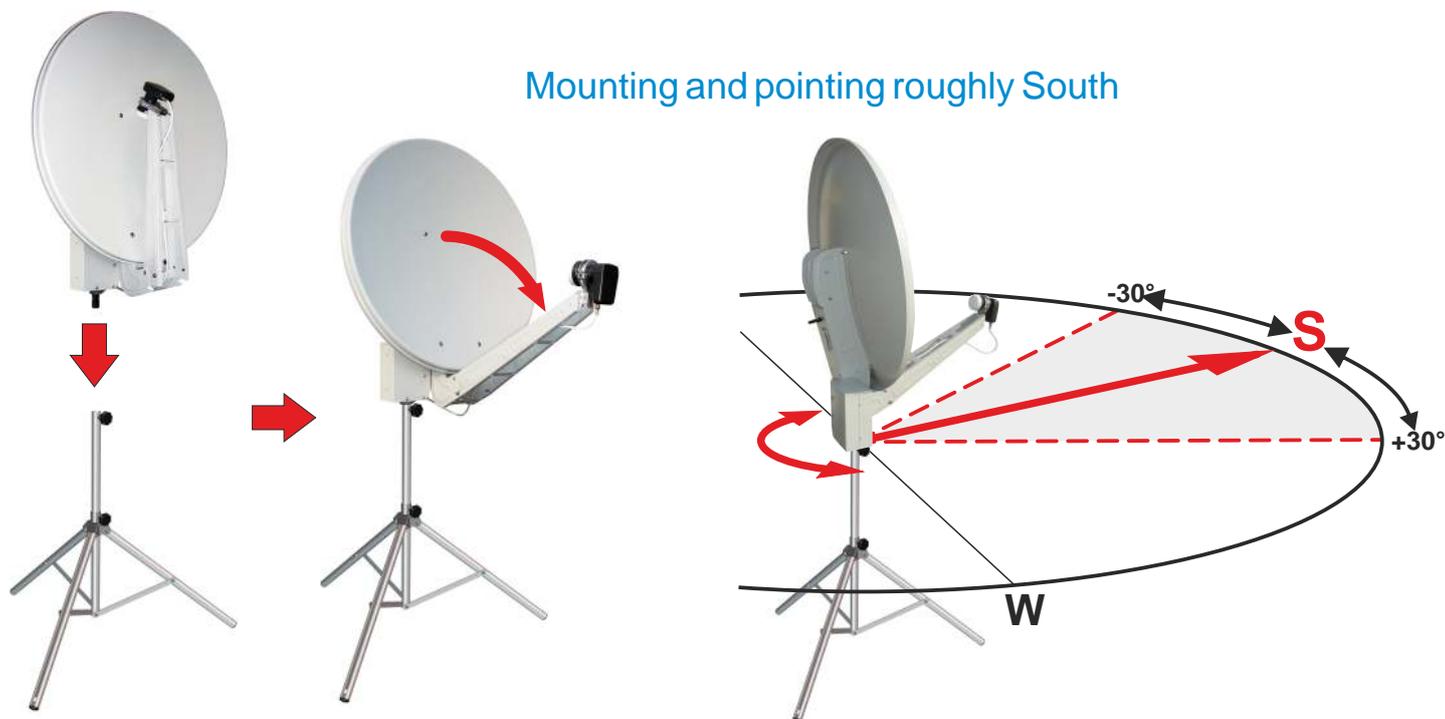
- Point roughly the south ($\pm 30^\circ$ precision).
- Put in the receiver the installation place coordinates.

These operations are extremely simple in that for the research of the South is sufficient a map or a compass. The coordinates can be obtained rather easily from the maps included in the instructions, a map or a GPS, but no great accuracy is required as the motor will find the satellite.

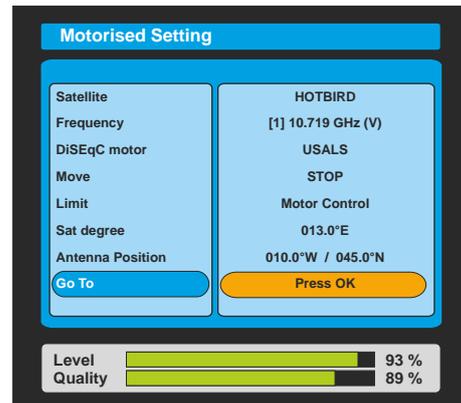
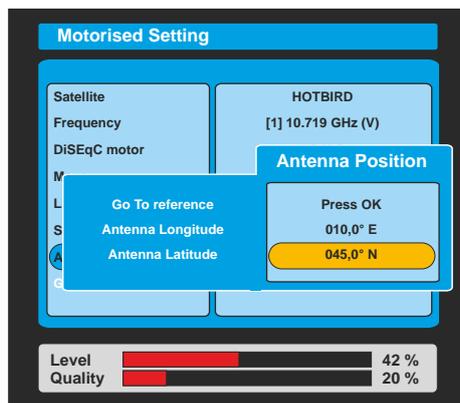
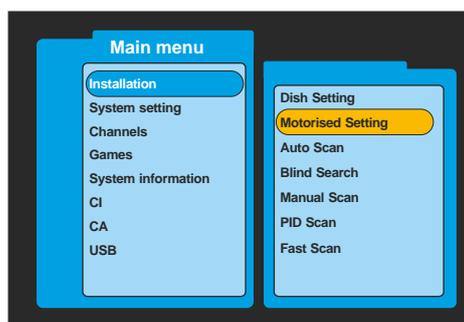
Depending on the precision with which these two operations will be performed, the motor will point the satellite automatically in an average time of 4 minutes.

Easy installation

The installation of the system is extremely simple, this is the sequence of operations to be performed:



Entering geographic coordinates in the menu (maps included)



**End of pointing
Enjoy!**

Items included

- 1 Motor STAB AZ90 two axis
- 1 Receiver Clarke-tech - CI, Conax, USB
- 1 Dish Gibertini 75 cm aluminium with folding feedarm
- 1 Universal LNB
- 20 m sat coaxial cable
- 1 Tripod with camping stakes holes
- 1 Inverter 12Vdc/220Vac - 30VA (only kit KZ12)



Technical data

Motor AZ90

Motor type	2 HH90 interblocked
Rotation angle	130°
Elevation angle	90°
Power supply	13/18 V
Azimuth speed	2.4°/s (18V) - 1.5°/s (13V)
Elevation speed	2.4°/s (18V) - 1.5°/s (13V)
Azimuth precision	0.3°
Elevation precision	0.3°
Dimensions	175x240x85 mm
Weight	3.3 kg

Antenna

Diameter	75 cm
Weight	4,8 kg
Material	varnished aluminium
Notes	folding feedarm

Tripod

Close height	74 cm
Max height	89 cm
Max angle	110°
Close diameter	105 mm
Weight	630 g
Notes	Holes for camping stakes

Receiver Clarke-tech 3100 Plus

System	full DVB compliant
LNB connector	IEC 169-24, female
Frequency	950MHz ~ 2150MHz
Signal level	-65dBm ~ 25dBm
LNB power supply	DC 13/18V, max 400 mA
LNB switch control	22 kHz
DiSEqC	1.0/1.1/1.2/USALS
Processor	32bit (150MHz)
SDRAM	16Mbyte
FLASH	2Mbyte
Resolution	720x576, 750x480
Video	NTSC, PAL
Aspect ration	4:3, 16:9
Remote control	NEC-IR, up to 7 meters
USB	DC 5V max 500mA
Consumption	max 25W
Power supply	90V ~ 250V / 50Hz ~ 60Hz
Dimensions (WxHxD)	260x54x232 mm
Weight	1.8 kg

Inverter (only kit KZ12)

Input	12VDC
Output	220VAC
Power	30VA