



To meet the exacting demands of the DSNG market, SWE-DISH Satellite Systems have developed the SWE-DISH® Fly-Away Series. The FA90K Fly-Away matches the need of high efficiency transportable antennas with easy-of-use.

#### **RUGH DESIGN**

The FA90K Fly-Away system is our smallest fly-away system and consists of only three flight cases. Total weight is 112.6 kg (250 lbs), and it can easily be set up by one person within 10 minutes. The antenna is a two piece carbon fiber antenna. Also the flight cases are made of rugged carbon fiber. It has been widely used both by broadcasters and defence industry thanks to its rugged design, reliability, high performance and quick deployment.

#### **SIMPLE OPERATION**

The FA90K can be hand carried, transported by car, flown by scheduled services or by helicopter, or installed in a light vehicle. Whatever the method you choose to get to location, our systems will cost you less to transport, and less to set up. On site the true elevation meter helps you align towards the chosen satellite.

#### **COST-EFFECTIVE**

The small FA90K is a cost-effective fly-away antenna minimizing transportations and handling cost. The FA90K has a tremendous record of live contributions from all over the world - from Himalayan base camps to the streets of London.

# KEY FEATURES

- High quality and reliability
- Cost-effective and efficient
- Low transportation costs
- Quick set-up time
- Simple, reliable operator interface

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# SPECIFICATIONS: SWE-DISH® FA90K FLY-AWAY

## ANTENNA SYSTEM

Antenna Type	90K 2 piece dual offset
Antenna Aperture	0,9 m
Polarization	Linear
Rx Frequency	10.70 - 12.75 GHz
Rx Gain at mid-band	40,0 dBi
Tx Frequency	14,0 -14.5 GHz
Tx Gain at mid-band	42.2 dBi
Cross-polar Rejection	>35 dB
Standard HPA Size	125 W/ 400 W
Maximum EIRP	61 dBW/66 dBW
Extended KU band	13,75 - 14,50 GHz is optional for 90K

## MODULATION

Transmit mode	SCPC or MCPC
Modulation type	QPSK, or cost saving 8-PSK

All commonly used code types and rates are implemented.

## VIDEO INPUTS AND PROCESSING

PAL/NTSC composite and Component Y/C on BNC connectors  
 Digital D1  
 MPEG-2 Main level/Main profile, DVB compliant

## AUDIO INPUTS AND PROCESSING

Two stereo pairs or four mono analog channels on XLR connectors  
 Two AES/EBU digital stereo pairs (XLR)  
 Audio processing according to MPEG-2 layer I and II (Musicam)

## ANTENNA ALIGNMENT

Azimuth Coarse and precision fine adjustment  
 Elevation Generally 10° - 90° with fine adjustment  
 Polarization 180°, 1° accuracy with precision gear drive  
 Electronic inclinometer with 3 1/2 digit readout  
 Signal analyzer for easy, precise alignment including precise tuning of cross-polar rejection

## OPERATING CONDITIONS

Operating Temperature	-20°C to + 55°C (-4°F o +131°F)
Operating Humidity	95% non-condensing
Survival Range	-40°C to +70°C, 100%
100% Humidity	(-40°F to +158°F)

## EASE OF USE

Fast set-up Less than 10 minutes  
 Easy Control & Monitoring unit (ECM) streamlines operations.  
 The SWE-DISH® System can be remotely controlled via phone modem or by PC.



## FLIGHT CASES

Cases	Three cases
Total weight	112.6 kg (250 lbs)
RF Case Dimension	72x60x35 cm (28.3x23.6x8.5 in)
RF Case Weight	38 kg (83.8 lbs)
HPA Case Dimension	72x60x30.5 cm (28.3x23.6x12.0 in)
HPA Case Weight	28 kg (61.7 lbs)
FA90K Case Dimension	102x66x42 cm (40.2x26.0x16.5 in)
FA90K Case Weight	46.6 kg (102.7 lbs)



Specifications are subject to change without notice