

Turnkey

Solar FM Transmission System

Deliver your FM Program to isolated communities with our **standalone** solar retransmission solution.



POWERFUL PERFORMANCE

- Up to 10 km / 6.2 miles coverage
- Versatile audio sources
- Hybrid Solar/AC power



POWERFUL CONTROL

- Smart energy management
- Control via dedicated mobile App

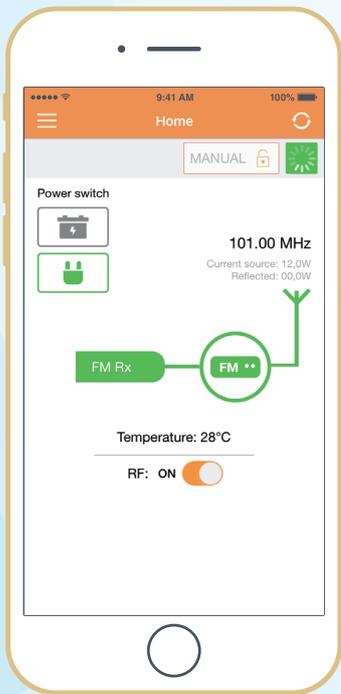


POWERFUL SAVINGS

- Renewable energy
- Easy to install
- Zero operational cost



Key features



SOLAR FM application



HYBRID ENERGY SOURCES

Power the system with AC, Solar, Wind power or any DC sources



VERSATILE AUDIO RECEPTION

Receive signal from satellite, FM or analog & digital audio inputs



OUTDOOR OPERATION

Rest assured your SOLAR FM is protected against water and environmental damage (IP66 certification)



TURNKEY SOLUTION

Tailor your own SOLAR FM system or ask WorldCast Systems to provide you with a customized solution ideally suited to your requirements.



MULTIPLE APPLICATIONS

Operate the transmitter as a gap-filler, an FM retransmitter, a standalone transmitter or as a system for emergency communications



CENTRALIZED MOBILE APPLICATION

Control the equipment locally via a dedicated Android & iOS mobile App

Discover the new autonomous FM transmitter

The SOLAR FM is a unique FM transmission solution designed to operate in isolated areas with limited electrical infrastructure, covering up to 10 km areas.

Capable of receiving audio from FM and satellite as well as analog and/or AES inputs, the system comes complete with appropriate antennas and a dedicated smartphone application for control.

The standard system utilizes solar power with AC power back-up and wind power capability is available as an option.

Designed to operate in harsh environmental conditions, the SOLAR FM can be easily deployed in mountainous areas, forests and deserts. Once securely fastened to a mast, the user simply needs to connect the energy input and audio sources and they are ready to broadcast!

Applications

CHOOSE YOUR ENERGY SOURCE

The SOLAR FM benefits from a selection of three separate energy sources. Using the mobile App, you can configure the use of these sources to optimize your operation and up-time.



SOLAR ENERGY
The SOLAR FM can be configured to obtain maximum use of available solar energy in its location.

AC POWER
AC Power, when available, can provide both scheduled and unscheduled back-up to the main energy source.

WIND ENERGY
A wind turbine can be connected to supplement or replace SOLAR Power as the main energy source.

SELECT PREFERRED AUDIO INPUT

Based on the highly-respected ECRESO range of FM transmitters, the SOLAR FM provides standard Analog and Digital audio inputs as well as retansmission signals input.



RUN YOUR SOLAR FM AS...

- STANDALONE TRANSMITTER
- EMERGENCY COMMUNICATION RADIO
- FM RETRANSMITTER
- MOBILE FM TRANSMITTER
- GAP FILLER



Find out more

Technical Specification

Technical specification

FM TRANSMITTER	
Frequency range :	87.5 - 108MHz
Power range :	2 - 25W
Configurable pre-emphasis :	0 - 50 - 75 µs
Mono or Stereo mode	
Provided with Cable and N connector	
SATELLITE RECEIVER	
Receive tuner frequency :	950-2150 MHz
Compatible with DVB-S & DVB-S2 standards	
Demodulation :	QPSK, 8PSK
F connector	
FM RECEIVER	
Frequency range :	87.5 - 108MHz
N Connector	

AUDIO INPUTS	
2 Analog inputs (waterproof connectors) with cables	
1 AES input (waterproof connectors) with cables	
SOLAR PANEL & BATTERY	
Solar panels	
1 NiMH battery	
1 Battery Management System	
COMMUNICATION	
WiFi connectivity	
Internet compatible	
Configuration via ANDROID & iOS Apps	
WARRANTY	
3 years as standard (Battery : 2 years warranty)	

PHYSICAL SPECIFICATION	
Temperature	-20 - 60°C
Humidity	5 - 95% non-condensing relative humidity
Marking	IP66, CE, RoHS
Standards	Safety : NF EN IEC 60950-1, NF EN 60065, CEI 60215:2016 CEM : EN 301 489-1 V1.9.2 (2011) & EN 301489-11 V2.1.1 (2017-04)

Technical Specifications subject to change without notice - 03/2018

Order information

SOLAR FM	
REF	DESCRIPTION
TF01212-FULL-VERSION	SOLAR FM including FM transmission and reception antenna, satellite dish, solar panels and fixings, smartphone, and all the cables
TF01212-BASIC-VERSION	SOLAR FM alone
SP02445	Wind turbine compatible with SOLAR FM
SP02444	Energy pack including additional battery and management system
SY01770	High performance battery

ADDITIONAL SERVICES	
REF	DESCRIPTION
CRM06963	Coverage study
SCE-SOLAR-01	Radiance study
FORM-ECRESO	1-day training or technical assistance on SOLAR FM installation

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