

SolsticeCam™

Wireless Solar Powered Camera Systems

SS-FIC-20MILE-P Series



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SolsticeCam Fixed Network IP Camera System:

This complete and fully integrated solar power surveillance unit provides safe and reliable wireless camera surveillance by transmitting video up to 20 miles for 24 hours a day where it can be recorded and viewed live via internet from a location convenient for you. The unit provides power generation by converting the energy of the sun without the need and expense of trenching for utility power. The sealed, deep-cycle batteries enclosed provides extended life for solar applications. The schedule 40, 20 ft. 4.5 in. diameter aluminum pole structure (not included in KIT Series) is easily setup and is corrosion resistant for the most severe weather conditions. This unit is practically maintenance-free and comes pre-wired for minimum setup time and installation. All SolsticeCam units come with a one year guaranteed warranty with an optional two or three year extended warranty.

SPECIFICATIONS

Model SS-FIC-20MILE-KP	
Construction	Weatherproof Structure with Sunshield Protection
Pole	4.5 in. diameter schedule 40 aluminum pole at 20 ft
Enclosure	NEMA rated aluminum weatherproof enclosure
Solar Requirement	2.0 solar rating or higher
Solar Output	12V DC with 5 day no-sun backup

Camera Sony SNC-CS50N	
Image Device	1/3 type Exwave HAD CCD
Effective Pixel	380,000
Lens Type	CS-mount x 2.7 Varifocal auto iris lens
Day/Night Functions	Yes
Activity Detection	Yes
Minimum Illumination	0.4 lx (color) / 0.035 lx (B/W) (F10, AGC ON, 50IRE)
Composite Video Output	BNC x 1, 10 Bp-p, 75 unbalanced, sync negative
Horizontal Resolution	540 TVL
Image Size	640x480, 320x240, 160x120
Compression	JPEG/MPEG4/H.264
Maximum Frame Rate	30 fps JPEG/MPEG4, 10FPS H.264 at VGA
Audio G.726, G7.11	
Ethernet	10 Base-T/100 Base-TX (RJ-45)
Sensor Output	Sensor input x 2
Alarm Output	Alarm output x 2
Card Slot	PC Card x 1

900MHz Transceiver (Frequency options include 900MHz, 2.4GHz, 4.9GHz, 5.8GHz)	
RF transmission	rate 1.536 Mb/s
Ethernet throughput	935 Kb/s
Output power +	21 dBm (4 Watts EIRP with 15dBi antenna)
Receiver sensitivity	-97dBm at 10e-4 BER (-112dBm with 15 dBi antenna)
Radio link budget	148dB with 15dBi antenna
Range	up to 50 miles Line of Sight with 15 dBi antenna
Radio channels/bandwidth	12 Non-overlapping with 2.0833MHz spacing and 1.75MHz occupied bandwidth
Automatic frequency select	Yes - radio channel automatically selected and adaptively optimized
Connector types	RF RPSMA Female / Ethernet RJ45 10BaseT / Power Jack P5-2.1mm ID
Status LEDs	Power, RF Link, Ethernet Link, Traffic, RF RX, RF TX, 4/Channel and 6/Link Quality
Error correction technique	Sub-block error detection and retransmission
Adjacent-band rejection	SAW receiver filter attenuates cellular and pager interference
Regulation type	Switching Regulator

WECU Surveillance.com

P.O. Box 158

Carstairs, Alberta, Canada T0M0N0

Ph: 403.668.4758

Fax: 403.668.4790

Email: info@wecusurveillance.com

Website: <http://www.wecusurveillance.com>