

## *Video Powered by Nature*

### **SOLAR/WIND POWERED WIRELESS VIDEO SOLAR-LINK™**

System designed by *INFRATECH™*



**Sample Applications Include:**  
DAMS-RESEVOIRS-LAKES-PARKS-  
BRIDGES POWER PLANTS-SUBSTATIONS-  
TRAFFIC CONTROL  
AIRPORTS-OIL PIPELINES-EMERGENCY  
DEPLOYMENT-CONSTRUCTION SITES.



“Need to install a camera in a remote location for security reasons? No public power source, no transmission lines and no telephone landlines. Need to have this camera up and transmitting video today.

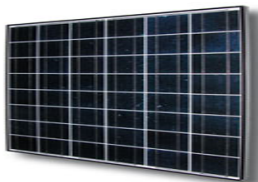
The above request may have never been a thought only a few years ago. However, as more security becomes part our daily lives, it presents new challenges for today’s technology. We find ourselves in an environment more aware of security than ever before. The need for more reliable secure versatile turnkey systems and faster deployment has never been greater.

The MULTI-MEDIA SOLAR-LINK™ combines multiple technologies working together to produce a video surveillance system like no other previously available. The fastest way to secure and monitor an area without construction delays.



***SOLAR+ WIND+ WIRELESS =  
VIDEO POWERED BY NATURE***

**OPERATIONAL  
POWER**



**DUAL SOLAR ARRAY  
HIGHLIGHTS AND SPECIFICATIONS**

These cells are encapsulated between a tempered glass cover and an EVA pottant with back sheet to provide maximum protection from the most severe environmental conditions. The entire laminate is installed in an anodized aluminum frame to provide maximum structural strength.

Maximum Power	85 Watts
Maximum Power Voltage	36.8 Volts
Maximum Power Current	4.74 Amps
Open Circuit Current	43.6 Volts
Short Circuit Current	5.15 Amps
Mechanical Dimensions	51.5" x 39.5" x 2.2"
Weight	36.6 lbs (16.6kg)
Conversion Efficiency Of Solar Cell	18%



**AIR WIND TURBINE  
HIGHLIGHTS AND  
SPECIFICATIONS**

The AIR WIND incorporates a microprocessor based controller which provides voltage regulation, peak tracking and quiet stall control in high winds. The unit also incorporates a voltage boosting function which allows the turbine to reach charging voltage at a much lower RPM. It also features a new more efficient alternator designed to compliment the peak power tracking ability of the control electronics. The body is made from precision castings that also acts as a heat sink and transfers heat from the electronics into the wind flowing past the turbine. Weighing only 12lbs. with a rotor diameter of 36 inches and a low wind start of 7mph. This unit can produce 400 watts at 28mph.

**The wind generator is an option that will complement the solar charging system. It can act as a back-up when sun light is not available or the conditions create unreliable sun exposure. The combination of both charging systems will reduce the size of the solar panel and allow higher powered equipment to be used.**

## CHARGING HIGHLIGHTS AND SPECIFICATIONS



Series Design (not shunt) \* True 0  
to 100% PWM Duty Cycle. \*  
Marine Rated Terminals \* Anodized  
Case \* Temperature Compensation  
\* Approved for hazardous locations  
Class 1 Division 2 Group A, B, C, D

## **BATTERY POWER HIGHLIGHTS AND SPECIFICATIONS**

Advanced American Technology  
and the use of the most modern  
computer-aided design and  
manufacturing techniques  
combine to make the MK Sealed  
Gel Batteries the best power  
source for this application.  
Maintenance free. Sealed  
construction eliminates periodic  
watering as well as corrosive  
fumes. The actual model includes  
two 12 volt batteries providing a  
total of 100 amp hours at 24 V.



## **THE EYES OF THE SYSTEM**

Microprocessor based Linux OS camera  
MIOD Mega pixel IP Camera System  
with Integrated Recording. The M10D-  
Night has two integrated image sensors  
and two lenses depending on the current  
illumination. The camera automatically  
selects the color image sensor with  
daylight lens or the more light sensitive  
B/W image sensor with IR lens to record  
the images.

The resolution of 1280 x 960 pixels is  
about twelve times as high as the CIF  
images from an analog camera. In VGA  
(640 x 480) and CIF (320 x 240) mode.  
The M10D-Night provides up to 4x  
zoom while creating minimal network  
load. Bi-directional audio, video motion  
detection in the image and passive IR  
sensor are also part of the standard  
delivery. The integrated Ethernet, ISDN  
and RS232 interfaces provide access to  
all current IT standards, including  
GSM/GPRS/UMTS (3G).

Digital zoom, digital panning, video  
motion detection, event-controlled frame  
rates and freely selectable image  
sections reduce the storage requirements  
of the M10 to a minimum. The camera  
software features integrated alarm  
management including pre and post  
alarm images. FTP, e-mail, external ring  
buffer storage on windows does not  
require additional heating. Power can be  
supplied via network or ISDN cabling.

## MOTOROLA CANOPY WIRELESS BROADBAND RADIO LINK



Motorola's Canopy platform offers security with over the air encryption that scrambles data bits and helps prevent interception, so data delivery with the Canopy solution is very reliable and can accommodate applications of more than 20 miles. The throughput bandwidth exceeds the capacity of five (5) T1 lines and is not affected by distance. The wireless link has the ability to operate multiple cameras with full motion video. Optional capacity up to 300 Mb/s bandwidth and 40 mile near line of sight range wireless link available

## SYSTEM WIDE FEATURES:

- ❖ Fully assembled turnkey systems
- ❖ Eliminate the need of installing utility power and control.
- ❖ High quality solar panels.
- ❖ Complete self contained battery power.
- ❖ Solar and optional wind turbine powered.
- ❖ Immediate deployment, no installation.
- ❖ Additional monitoring features, such as door, telemetry, SCADA, card reader access, motion, etc. (customer provided equipment)
- ❖ Multiple cameras can be operated simultaneously on one system.
- ❖ Smart/ Intelligent Cameras
- ❖ Operates for over 6 days on battery only without charging.
- ❖ Very low power consumption
- ❖ No heaters or blowers necessary
- ❖ Very High Security, closed network. AES encryption



Shown without optional wind generator and Canopy Link with one camera mounted above link. Camera mount supplied can hold up to three cameras in a 360 degree pattern

*For more information contact our distributor or call the number below:*

**190 Adams Ave, Hauppauge NY 11788**

631-669-2100; fax 631-669-6455 [www.mmc.net](http://www.mmc.net)