



## Technical Specifications

### FutureSentry Model Number F4-U

The FutureSentry is a robotic intruder detection and response device that features a motorized turret, IR motion sensors, LED lights and versatile interfaces for integrating a virtually limitless array of components.

### Construction Specifications

- Industrial grade motor 12 VDC with integrated pinion gear.
- Torque load rated at 12 VDC 1.14 kg/cm (0.0824 lb/ft).
- Current draw at rated load 269 mA.
- Withstands voltage 300 VDC for 1 sec.
- Internal step-down gears and housing made of brass.
- Heavy duty gear drive made in USA from non-corrosive aluminum with an industrial nylon spur gear
- Turret is pre-wired with industrial rated traveling-coiled cable that feeds power to the camera and LED lights and delivers analog CCTV signal to the main control housing. Video Cable terminates inside the turret with BNC (male) connector. Inside main housing, cable terminates with BNC (female) connector. Inside-turret CCTV Camera Power Wires pre-connected to 12 VDC output from the controller. This auxiliary DC output offers up to 750 mA of power for CCTV components. If 24 VAC cameras are selected, the wires feeding 12 VDC can be reallocated to the 24 VAC terminals, allowing AC voltage if required. Available camera power remains at 750 mA whether AC or DC is selected.

### Housing

- Heavy Duty, non-corrosive textured ABS plastic.
- Designed for demanding exterior applications, the housing walls are .764 cm (5/16") thick.
- Housing is UV Stable and designed for all environments.
- Stainless steel hinge and latches.
- Service temperature rated at -40 C to 48.9 C (-40 F to 120 F).

## Camera Mount

- Universal CCTV Camera Mount is made of heavy duty aluminum and will accept load of up to 5.44 kg (12 lbs).
- Independently Adjustable Vertical Pitch
- Unique “Half C” design allows CCTV Cameras equipped with hinged covers to be accessed while the camera remains mounted.

## Universal System Mount

- Universal Mounting bracket 5mm (.196 in) zinc plated steel
- Can be mounted to pole or building with bolts or stainless steel band-clamps. *Band-clamps not included.*

## Field Accessible Auxiliary Connections

- Hardwired Inputs – will accept Dry Contact (NO) inputs for up to 8 zones to allow any device to trigger the system
- Dry Contact Form C Alarm Output set to user programmable thresholds
- Dry Contact Form C Low Battery Alarm Output triggers to notify that a sensor has a low battery.
- Manual Turret Override allows a user to rotate the turret manually while overriding the unit’s inputs. This can be triggered by hardwired switches or outputs from video encoders or video transmitters.
- Aux Power Output maximum available is 13 VDC @ 750mA
- Backup Battery Charger built-in charger for standard 12 VDC battery

## Turret Mounted Lights

- Two sets of LED Array lights, each containing 3 super-bright, high-intensity LEDs  
*Warning: To prevent eye damage, never look directly at the lights at close range.*
- LED Array lights have SAE W-105 approval rating for industrial vehicle use
- High-intensity LED array covers 45° wide area. Distance of effective illumination varies depending upon selected camera. Many light intensifier cameras can see 91.4 meters (300 feet) in otherwise total darkness.
- Effective deterrence range of the LED arrays is greater, extending to 152.4 meters (500 feet) or more on level terrain.
- LED Current Draw is 600 mA when ON.
- 3-year warranty on the LED Array lights.

## **Power**

- Universal Power Input–will operate using either 12-24 VDC or 24 VAC.
- Maximum operating draw 1 Amp @12 VDC.
- Internal Power Supply converts 24 VAC to 12 VDC.
- Auxiliary Power Output will provide up to 750 mA at 12 VDC for CCTV Camera Power or other peripheral devices. Be sure to make certain that input power (usually 24 VAC) can deliver at least 40 VAC.

## **Internal RF Receiver**

- Receiver type: Super Heterodyne.
- Frequency of receiver: 433.92 MHz.
- FCC Part 15 Approved.
- Receiver Stability: Crystal.
- Receiver Sensitivity: -100 dBm.
- Transmitter to Receiver Range: Up to 304.8 meters (1000 feet) unobstructed

## **Sensor**

FutureSentry works with an array of sensors. Our standard solution includes 15 indoor/outdoor all-weather Wireless PIR Sensor/Transmitters. Each of these units transmits up to 304.8 meters (1,000 feet) in open space. Terrain and other location specific factors determine the number of sensor units required for a particular installation. FutureSentry factory can also provide a Wireless Universal Transmitter enabling any sensing or switching device (with N/O or N/C trigger output) to interface and communicate with the robotic guard interface unit without using standard hardwired connections.