

VISTA FREEZER

Model Number: SVIN11511

Hardware Revision: EM-IN-023V5R1

The Vista Freezer is a battery powered camera and sensor device that has the ability to capture the image of the CDE's display as well as monitor light, temperature, humidity and movement. Vista has internal nonvolatile memory to store the images and sensor data. Vista can transmit these images and data to the cloud over BLE.

The Vista Freezer is designed to be used for planogram compliance, stock monitoring and CDE tracking, maintenance, and management.



FEATURES

HARDWARE SPECIFICATION

Power supply	Internal 3.6V/3500mAh (LiSOCl2) primary battery
Size	170 mm L X 51mm W X 34.5 mm H
Temperature Range	-15°C to 45°C operating -20°C to 80°C storage
LED	Two LED's for status, identification, connection, and error indication
Storage	32-Mbit data flash

WIRELESS CONNECTIVITY

Bluetooth

Bluetooth Type	Bluetooth Low Energy
Bluetooth Sensitivity	-93 dBm sensitivity in Bluetooth® low energy mode
Bluetooth Max Power Output	+4 dBm
Bluetooth Antenna	Onboard PCB antenna
Frequency Support	2400Mhz to 2483MHz
Bluetooth Data Rate	1Mbps



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WiFi

Protocols	802.11 b/g/n (HT20)
Wifi Max Power Output	802.11 b: +20 dBm
Wifi Antenna	Onboard PCB antenna
Frequency Support	(2400 MHz to 2483.5 MHz)
Wifi Data Rate	11 Mbps ECOPACK® RoHS and "green" compliant

MOVEMENTS

Accelerometer	±2g/±4g/±8g/±16g dynamically selectable Full-scale 6D/4D orientation detection Free-fall detection Motion detection 10000g high-shock survivability ECOPACK® RoHS and "green" compliant
Gyroscope	Three selectable full scale of ±245/±500/±2000 dps sensitivity 8.75/17.50/70.00 mdps/digit sensitivity change vs. temperature ±2
Magnetometer (optional)	±4/ ±8/ ±12/ ±16 gauss selectable magnetic full-scale Continuous and single conversion mode 16-bit data output Interrupt generator

MCU

MCU	CPU - 32-Bit ARM® Cortex™ M0 32-Bit CPU memory - 256KB embedded flash - 32KBRAM System peripherals - 3 x 16/24-Bit timers with counter mode encryption - 128-Bit AES ECB/CCM/AAR co-processor
Co-MCU	ARM Cortex-M4MCU capable of off-loading the main ARM Cortex-M0 Core: ARM® 32-bit Cortex®-M4 CPU with FPU memories 1256+4 KB of SRAM including 64-KB of CCM (core coupled memory) data RAM Flexible static memory controller supporting compact flash, SRAM, PSRAM, NOR and NAND memories DMA: 16-stream DMA controller with FIFOs and burst support 14-bit parallel camera interface up to 54 Mbytes/s

AMBIENT SENSORS

Ambient Light	Resolution: 16-bits ADC Wide dynamic range 1:4,200,000 Integrated noise reduction: 50/60Hz Close to human eye response with excellent IR/UV rejection Lux range (max): 64000 lux Counts/Lux (max): 65 counts Dark ADC Code @ Ev=0: Lux (max) 5 counts
Humidity	± 4.5% RH @ 20 to 80% RH 0 to 100% RH humidity Range integrated on-chip Heater factory calibrated
Temperature Sensor	±0.5 °C accuracy (maximum) @ -40 to +125 °C Factory calibrated

CAMERA

5.0 MegaPixel	Array size: UXGA 1600 x 1200 Temperature range stable image: 0°C to 50°C Output Formats (8-bit): YUV(422/420)/YCbCr422 RGB565/555 8-bit compressed data 8-/10-bit raw RGB data Lens Size 1/4" Maximum Frame Rate UXGA/SXGA 15 fps SVGA 30 fps CIF 60 fps Sensitivity 0.6 V/lux-sec S/N ratio 40 dB Dynamic range 50 dB Scan mode progressive Maximum exposure interval 1247 x tROW pixel size 2.2 µm x 2.2 µm Image area 3590 µm x 2684 µm
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BATTERY

Required	Type Lithium Metal Cell (Li-FeSx Cell) 2xFR6 batteries (Each battery 1.5v - 2700mAH)
Replacement	Battery is easily replaceable by user

The device is not user servicable. Please contact CoolR Group if the device requires repair.



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