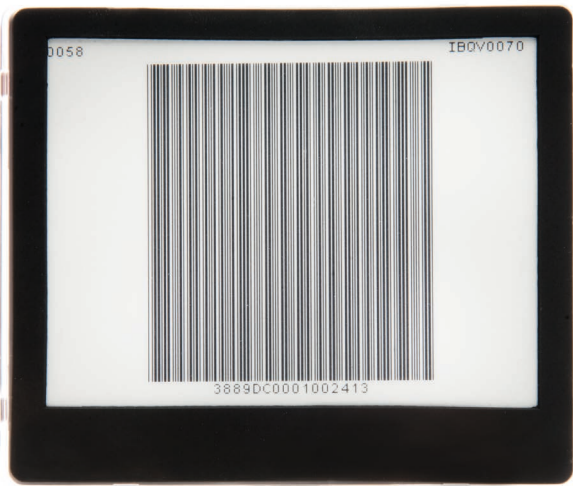


EE-440

4.4 inch E-paper Display

The EE-440 is a high resolution fully graphical, e-paper based, display. This display communicates the prices and promotions in an efficient way. The base station allows the staff to easily update the display with new content.



Highlights

- Enables on-demand, real-time pricing, promotions and product information
- Reduces waste and labor costs and minimizes errors
- E-Paper display technology boasts a high contrast ratio and superior viewing angle
- 100% display content flexibility and centralized administration of all devices and content via the Opticon ESL Server Software
- Bi-Stable display, so the image will remain on the display even after power is disconnected
- High contrast display allows scanning of barcodes off the display using a standard barcode scanner
- Display can be remotely updated via bidirectional communication using the Opticon Base Station
- A wide variety of secure, durable and esthetically pleasing display mounting options and accessories for in-store shelving are available
- Extremely low power consumption
- 2.4 Ghz
- 802.15.4 based protocol
- 400 x 300 pixels



EE-440

Product Specifications

Operation

CPU: CC2530-F128, 8051 core 8-bit MCU

Clock frequency: 32 MHz

Memory

Internal ROM: 128 kB

Internal RAM: 8 KB

Operating indicators

Range: typical 25 meter indoor; 100 meter open-field

Communication

Radio frequency: 2.4 GHz (2405 - 2480 MHz)

Radio transmission speed: up to 250 kbps

Protocol: IEEE 802.15.4 based

No. of EE-440 ESL's per base station: 500

Power

Battery: 2x Alkaline AAA

Operating Voltage: 3.0V

Usable time: 3 years at room temperature (update frequency: 4 times per day with 20 seconds poll time)

Display

Size: 4.4", 400 x 300 pixels (WxH), black, white

Active area: 89.6 x 67.2 mm (WxH)

Contrast ratio: 10:1

Pixel Pitch: 113 dpi

Durability

Temperature in operation: 10 to 50 °C / 50 to 122 °F

Temperature in storage: -20 to 60 °C / -4 to 140 °F

Humidity in operation: 20 - 60% (non-condensing)

Humidity in storage: 20 - 60% (non-condensing)

Physical

Dimensions (WxHxD): 106.52 x 90.86 x 18.20 mm /
4.19 x 3.58 x 0.72 in

Weight: Ca. 104 g / 3.7 oz (incl. battery)

Regulatory & Safety

Product compliance: FCC, roHs, En60950-1,
IEC60950-1, En 55022, En 55024, CE, REACH