

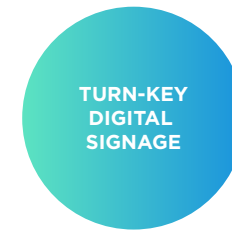
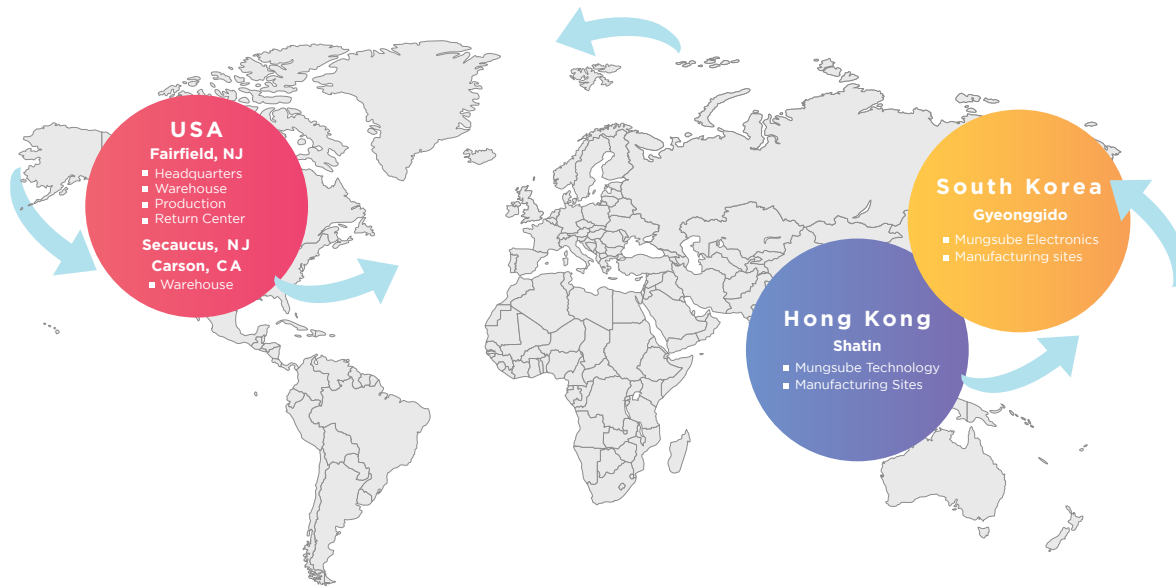


VCONN[®]

WE HELP YOU BUILD SMARTER SPACES

QUALITY AND
EXCELLENCE
INDOOR & OUTDOOR KIOSK

WWW.VCONNDIGITAL.COM



- ALLURE OUTDOOR SERIES
- ENDURE OUTDOOR SERIES
- AZURE OUTDOOR SERIES
- QSR OUTDOOR SERIES
- INDOOR KIOSKS



- CURBSIDE OUTDOOR KIOSK
- DC FAST EV CHARGERS
- E-PAPER OUTDOOR DISPLAY



- CUSTOMIZATION
- DESIGN & ENGINEERING
- PRODUCTION SOURCING



TECHNOLOGY



SINGLE



DOUBLE

01

COOLING AND HEATING (ENHANCED TEMPERATURE STABILITY)

Fan and heater control: automatic temperature control based on configured temperature. Operating temperature cis -30°C to 50 °.

02

AUTO BRIGHTNESS CONTROL

High resolution and ultra high brightness output ensures delivery of superb contrast levels, even in the brightness of sunlight.

03

ANTI-VANDAL BONDING & ANTI-REFLECT COATING

Outdoor kiosks will be secured from extreme environmental conditions as well as impacts on the display surface.

04

IP66

Provides full protection against dusts and water projected from all directions.

IP66

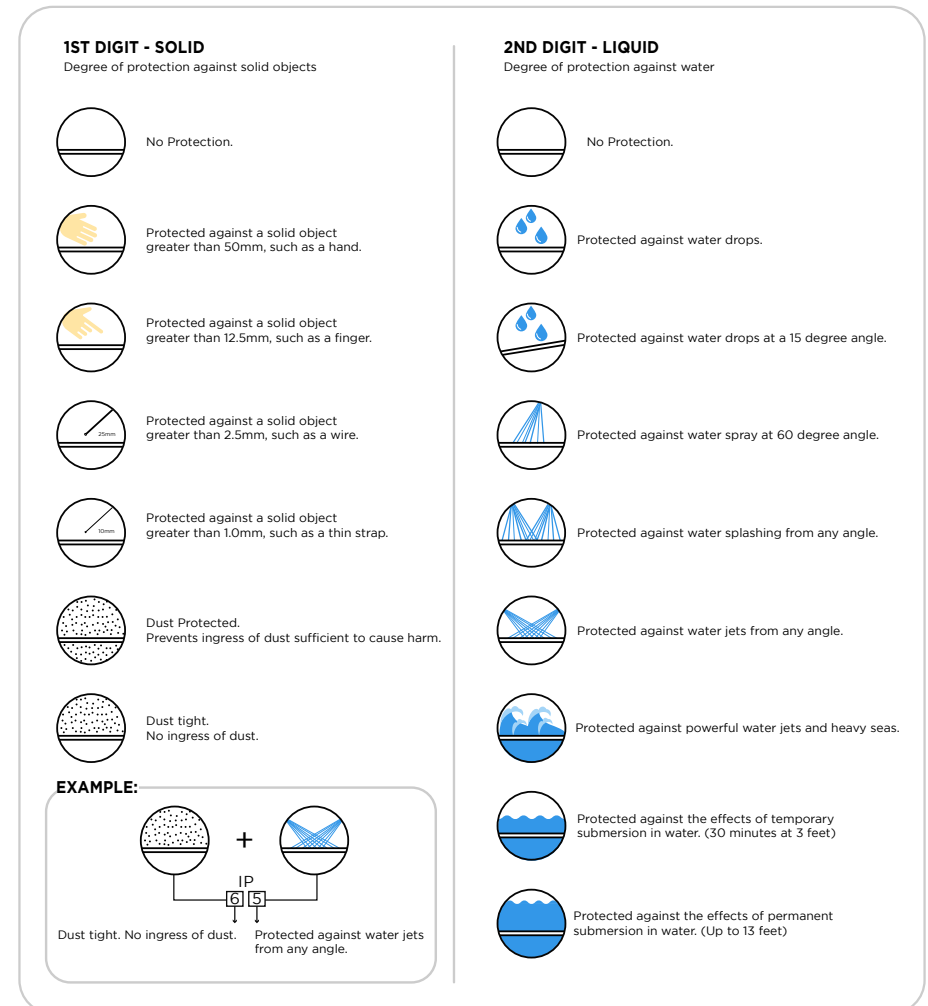
Provides full protection against dusts and water projected from all directions.

<https://www.iec.ch/ip-ratings> Electric and electronic equipment deteriorate or malfunction when water or dust enters the device. The IEC has developed the ingress protection (IP) ratings, which grade the resistance of an enclosure against the intrusion of dust or liquids. The ratings are widely used throughout industry.



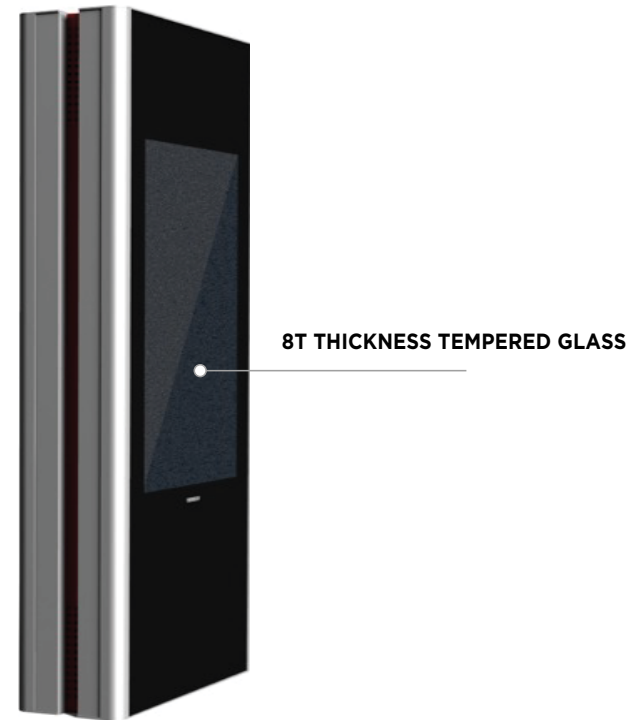
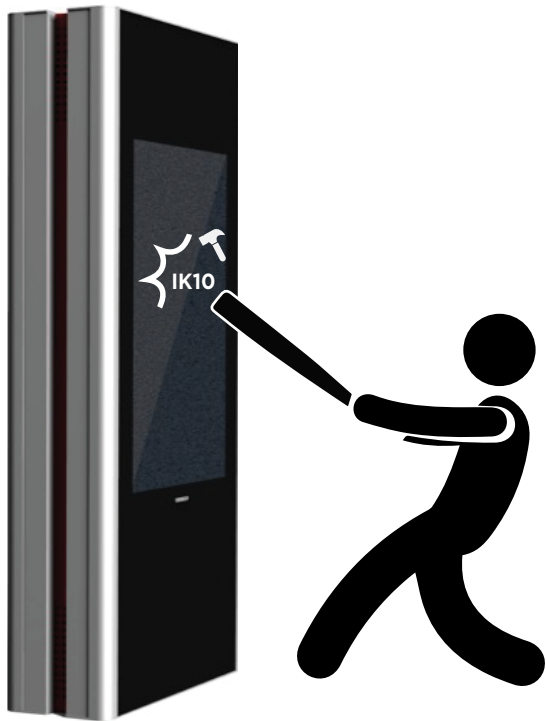
IP RATING CHART

IP ratings are represented by combining the first and second digits of the following columns. See example below.

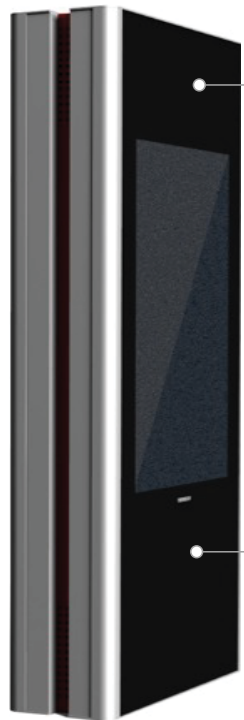


IK10

- Vandal-resistant
- IK10 Anti-vandal glass
- 8T thickness tempered glass
- Withstand impacts of 20 joules, making it highly resilient and durable
- Equivalent to impact of 5 kg mass dropped from 400 mm above impacted surface



AUTO BRIGHTNESS CONTROL



WEB CAMERA

DIM SENSOR

Surrounding Brightness	Minimum	Middle-low	Middle-high	High
	100 Lux		500 Lux	1000 Lux *
Monitor Brightness	700cd/m ²	1200cd/m ²	1800cd/m ²	2500cd/m ²



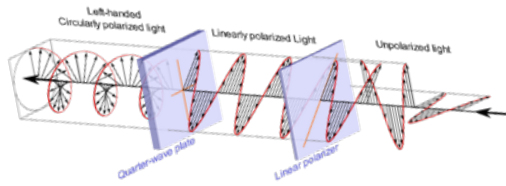
- Lower 100Lux: Night time
- 100Lux-500Lux: Indoor
- Over 1000Lux: Outdoor
- 30,000 Lux: Direct sunlight

Reduces power consumption by
adjusting brightness according to the surrounding environment

Protection Mode

-
Inside temperature higher than 70°C! Drop backlight
Inside temperature higher than 76°C BLU Off (Protection Mode)

QWP



LCD screens are specifically impacted by the polarization treatment. If you attempt to view an LCD screen while wearing a polarizer sunglasses, you will likely only see a dull or black image.



01
Hold your glasses up against your computer screen in a horizontal positions.



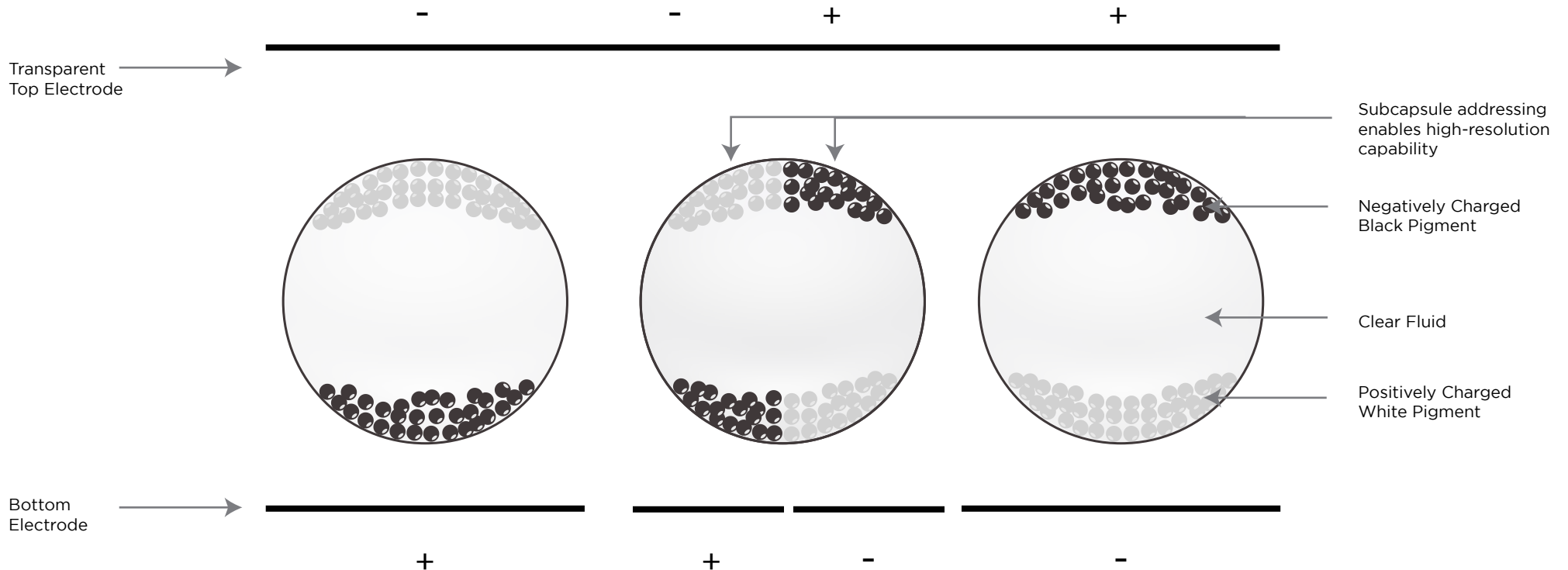
02
Rotate your glasses to the vertical position and observe the lenses. If they are black in the vertical position your lenses are polarized.

EPD



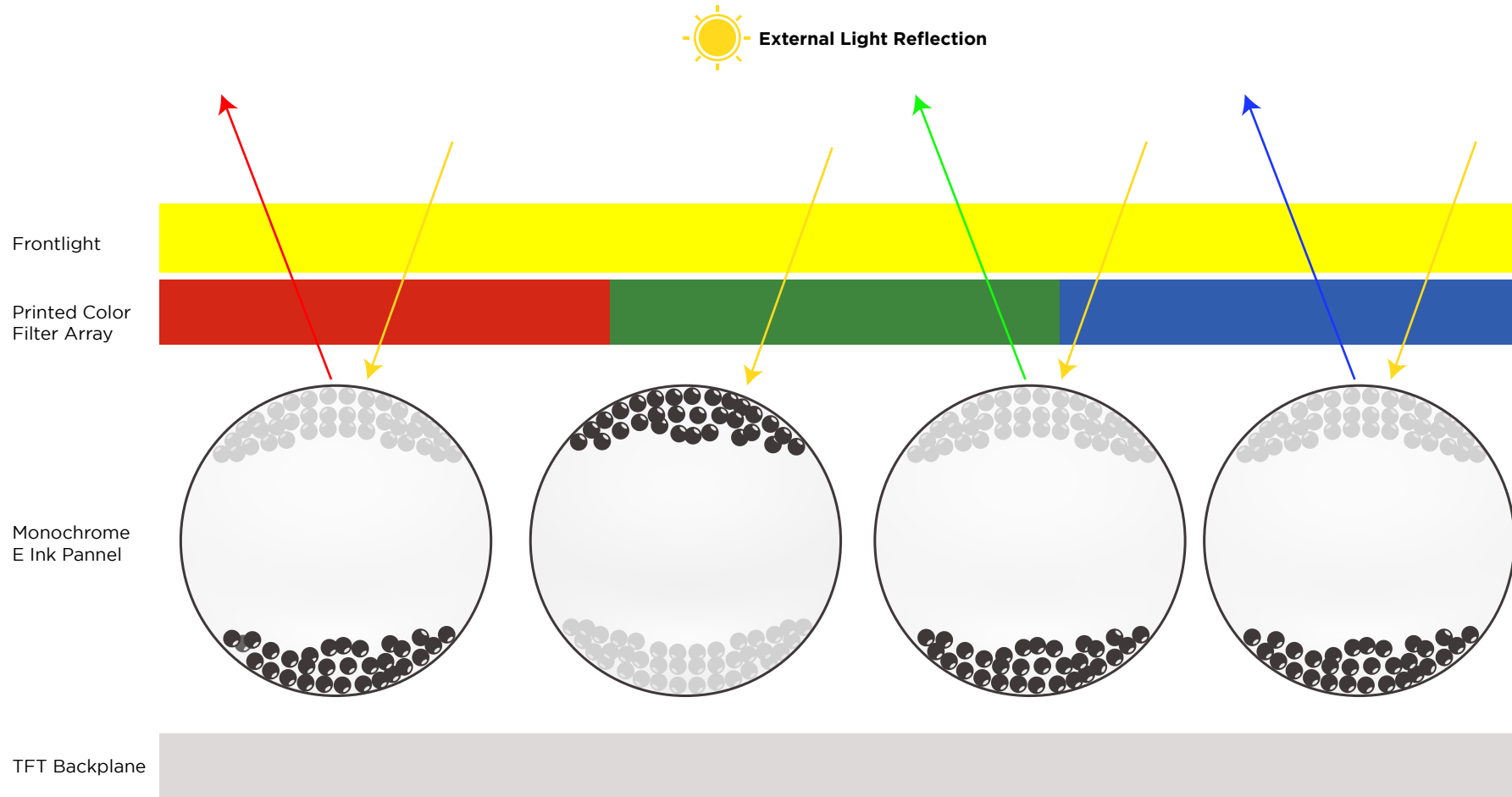
E-paper displays is a reflective display and can be made using different types of technology, such as electrophoresis, electrowetting, and electrochromism. At Ynvisible, we use electrochromism, as it allows us to use highly scalable, flexible, and cost-effective screen-printing production processes, whereas some display companies, such as E Ink, use electrophoresis.

MONOCHROME

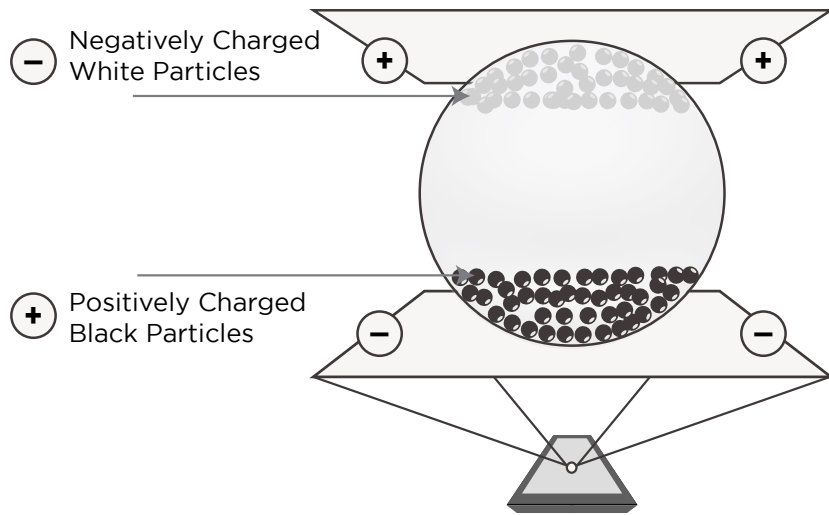


E INK KALEIDO™ CFA COLOR, IMPROVED.

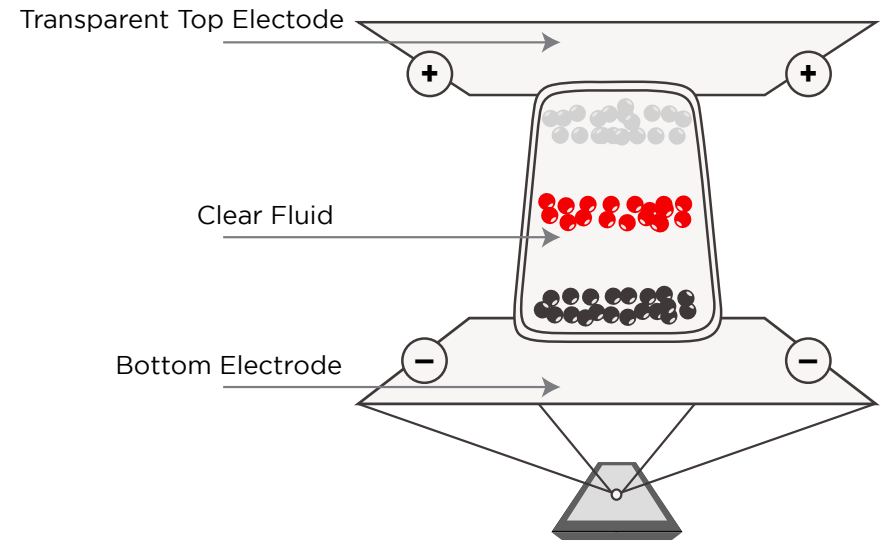
E Ink Kaleido™ displays offer 16 levels of grayscale and are capable of displaying 4096 colors. Aleido enables ultra low power and high mobility devices with a paper-like experience, ideal for image-rich information applications such as charts, graphs, maps, photos, comics and advertising. And just like E Ink's monochrome ePaper products, Kaleido's crisp text and detailed color graphics are fully viewable in direct sunlight, and have the same low power attributes.



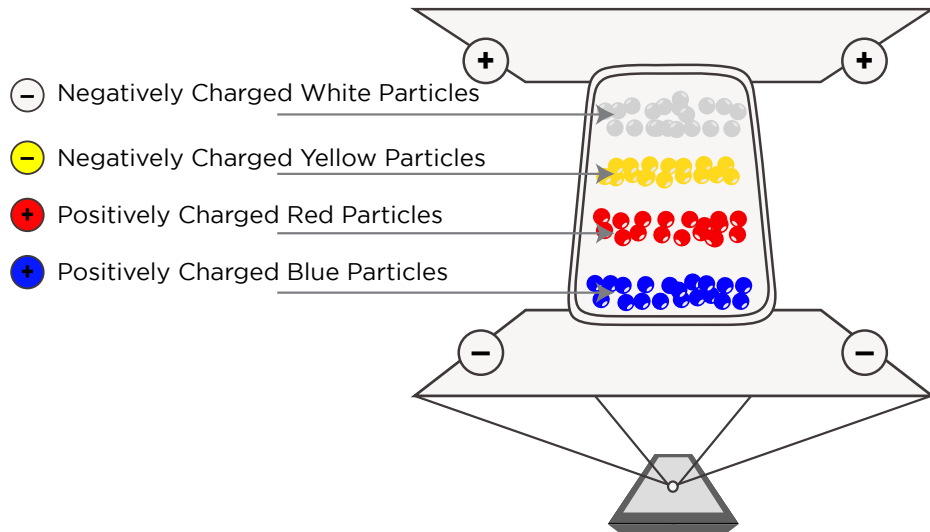
TWO PARTICLE INK SYSTEM -E INK CARTA™



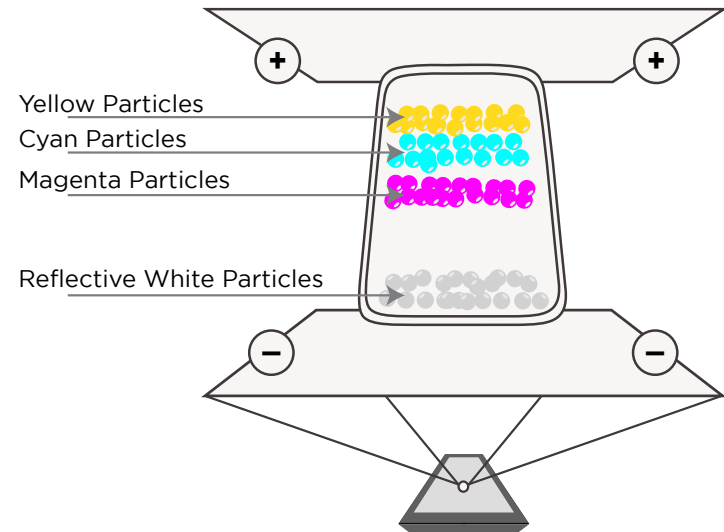
THREE PARTICLE INK SYSTEM - E INK SPECTRA™ 3000



FOUR PARTICLE INK SYSTEM - E INK SPECTRA™ 3100



FOUR PARTICLE INK SYSTEM - E INK GALLERY™ & E INK PRISM™



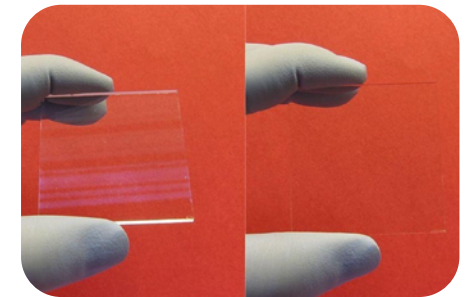
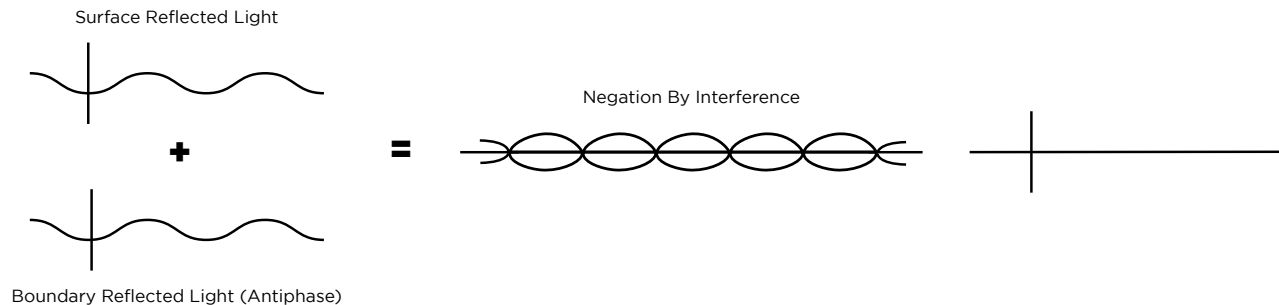
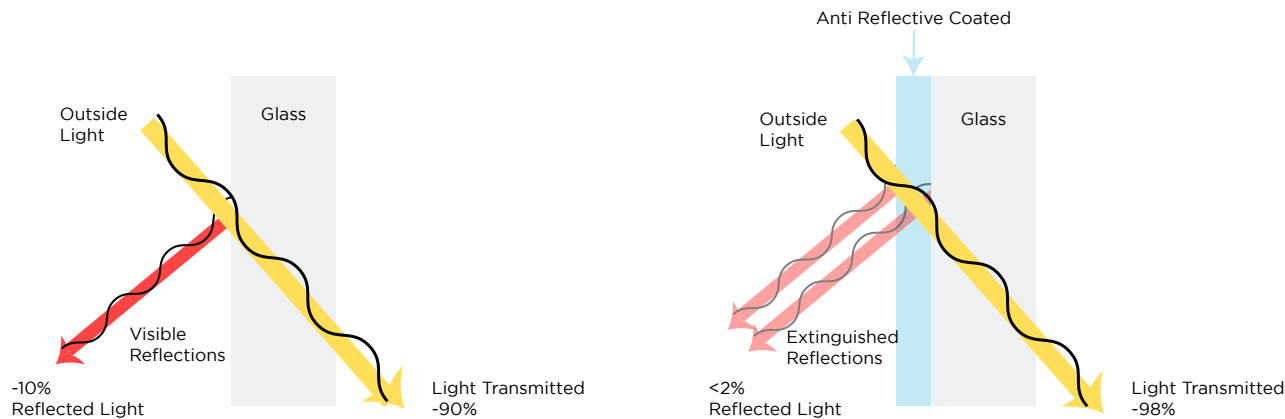
MONITORING SOLUTION

- Monitoring by Multiple Sensors and Software
- Internal / External Temperature, Ambient Light, Humidity, Shock



ANTI-REFLECTIVE GLASS

Anti-reflective glass, also known as AR glass, is a coating glass with high light transmission. We use magnetron sputtering to form an anti-reflection coating on a single surface or two surfaces of ultra-clear glass, which significantly reduces the reflectivity of the glass surface. As a result, a peak of maximum transmission can reach 99%, and the surface reflected light would drop from 8% to below 1%, achieving high light transmission, low reflection, and accurate color reproduction.

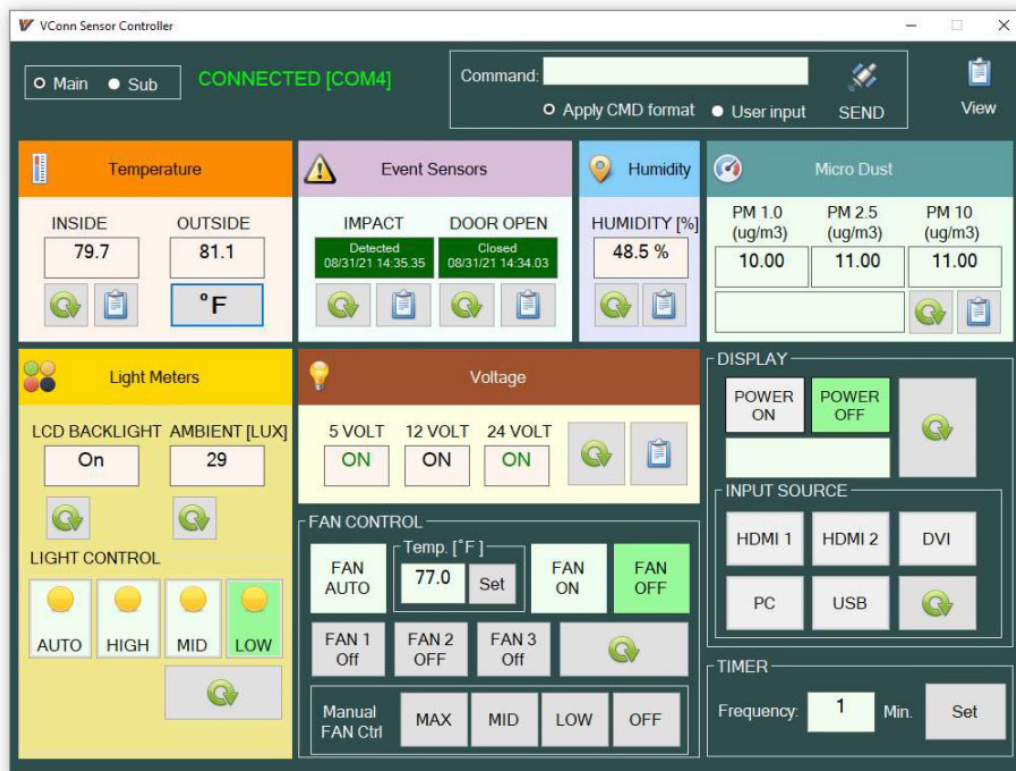


High transmittance, low reflection



High temperature and UV resistance

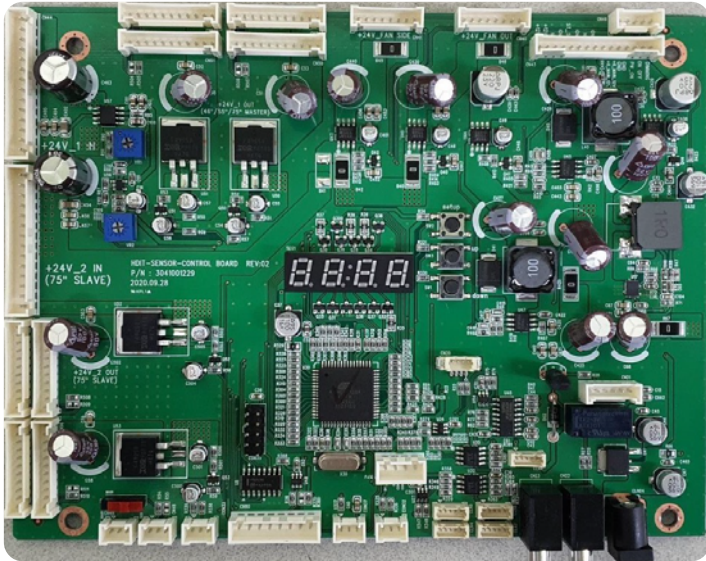
REMOTE MONITORING SOFTWARE & SOLUTION



- Real-time health-check
- RS-232C Communication
- Stay on top of everything remotely
- Fix issues without disrupting end users
- Minimize downtime by using remote commands
- Send commands to control fan speeds, brightness
- Remotely check brightness, temperature, panel status, events, and etc

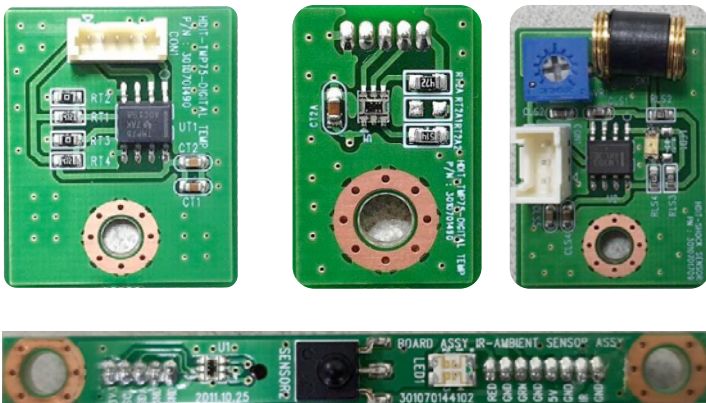
Software available in Windows and Linux(also API)

MONITORING BOARD & SENSOR TYPE



Connectors

- RS232C In
- RS232C Out
- FAN Power & Control
- Scaler UART Connector
- Impact Sensor Connector
- Micro Dust Sensor Connector
- Door Open Sensor Connector
- Sub Monitoring Board Control
- RJ45 to RS232C Board Connector
- Temp. & Ambient Sensor Connector

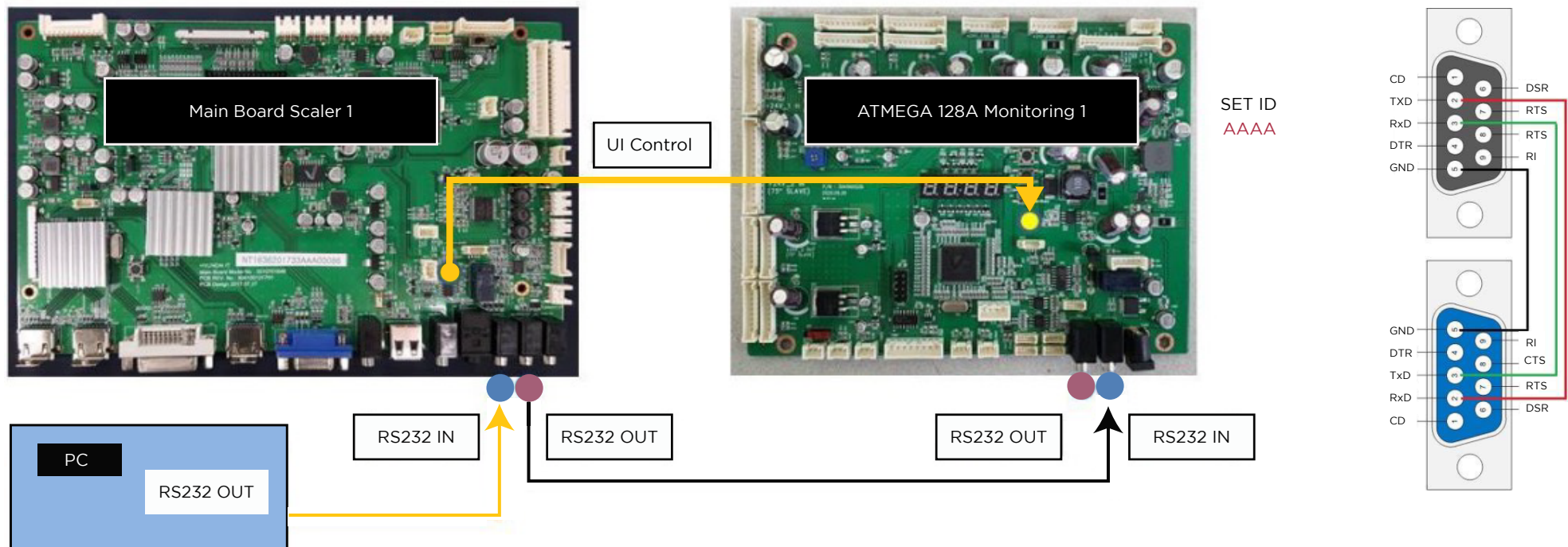


Types

- Shock sensor
- Fan Speed control
- Temperature sensor
- External Light sensor
- Door open detection
- Operating Voltage detection
- Fan operating error detection
- Panel Backlight on/off detection

MONITORING BLOCK DIAGRAM

Via RS-232, PC can send commands to the main board and sensor board.
The sensor board and main board will send sensor data to the PC for current status and remote monitoring.



LIGHTING BOX

Smart Accessory, Lighting box for kiosk, Smart interactive color change, and High brightness LEDs.



- Color control
- Brightness Control
- Low power consumption

COOLING AND HEATING

Fan is always on during high temperature environment.

Outflow Fan	Off											On		
												RPM: Fan speed proportion to temp	RPM: Max	
Front Fan	Off		On											
			RPM: Minimum			RPM: Fan speed proportion to temp					RPM: Max			
Fan 12V	Off											On		
Heater	Turned on when the temp lower than 5°C			Turned off when temp is hight than 15°C										
Sensor Temperature (°C)	-20	-10	5	10	20	30	38	40	45	50	60			

- Outflow Fans:
- Set-up on OSD
 - FAN speed automatically changes by temperature

