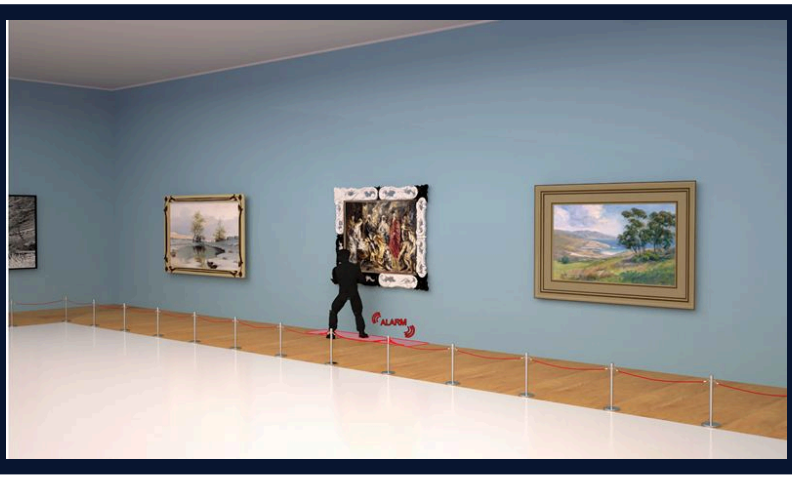
STRUCTURES & INTERIORS · ART AND VALUABLES

D-Picture

L6 Layer · The building

A hidden strain-gauge sensor behind each painting reports the moment it is dragged, lifted or replaced.



KEY BENEFITS

01 **The alarm starts at the wall**
Theft is reported when the painting moves, not when it leaves the building.

02 **Nothing for visitors to see**
No bars, no glass boxes: the protection is behind the frame.

03 **No maintenance visits**
A 'shoot and forget' sensor with a 10-year sensor warranty.

HOW IT WORKS

01 **Picture sensor**
A strain-gauge sensor behind the frame reads the painting's static force.

02 **Sensor controller**
Picture sensors are wired (4 × 22 AWG) to a sensor controller that forms the alarm zone.

03 **Zone alarm**
Moving, lifting or replacing the painting triggers the zone output.

SPECIFICATIONS

Sensor model	100 × 12 × 12
Mounting surfaces	Concrete, metal, wood or glass
Picture size	Unlimited
Picture weight	Up to 50 kg by default design; any weight by changing the installation method
Picture height / installation method / zone length	To customer specification
Minimum trigger force	To customer specification
Dry contact	N.O. & N.C., 1A@48VDC
Power supply	12mA@48VDC
Communication output	RS485
Operating temperature	+72 °C to –25 °C (162 °F to –13 °F)
Storage temperature	+80 °C to –55 °C (176 °F to –67 °F)
Corrosion	Anti-corrosion treatment to MIL-T-152
Humidity	98%
Lightning & electronic transients	MIL-STD-9094
EMI & RFI	MIL-STD-461 / 462

04 **Floor warning**
D-Pressure Strip in front of the artwork adds a warning on approach.

05 **C&C room**
Alarm, camera and SMS alert reach the control room and D-Command Control.

False alarm rate (catalogue)	Less than 1 per 3 months
MTBF (sensor)	4.7×10^8 h
MTTR	30 min
Warranty	10 years on the sensors

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be D-Picture by D-FENCE Electronic Fencing and Security Systems Ltd. (ISO 9001:2015 certified quality management), or an approved equivalent that meets every requirement in this section.

2. FUNCTION

A hidden strain-gauge sensor behind each painting reports the moment it is dragged, lifted or replaced.

3. THE SYSTEM SHALL PROVIDE

- **Reads the painting's weight:** Any drag, lift or replacement changes the static force and raises the alarm.
- **Any wall:** Installs on concrete, metal, wood or glass.
- **Invisible:** Hidden behind the frame; the display design stays untouched.
- **Any size:** Unlimited picture size; up to 50 kg by default, any weight with another mounting.
- **Shoot and forget:** No ongoing maintenance, based on the rugged D-FENCE strain-gauge sensor.
- **Integrated:** Triggers the D-FENCE alarm, CCTV and SMS; dry contact and RS485 output.

4. TECHNICAL REQUIREMENTS

- **Sensor model:** 100 × 12 × 12
- **Mounting surfaces:** Concrete, metal, wood or glass
- **Picture size:** Unlimited
- **Picture weight:** Up to 50 kg by default design; any weight by changing the installation method
- **Picture height / installation method / zone length:** To customer specification
- **Minimum trigger force:** To customer specification
- **Dry contact:** N.O. & N.C., 1A@48VDC
- **Power supply:** 12mA@48VDC
- **Communication output:** RS485
- **Operating temperature:** +72 °C to −25 °C (162 °F to −13 °F)
- **Storage temperature:** +80 °C to −55 °C (176 °F to −67 °F)
- **Corrosion:** Anti-corrosion treatment to MIL-T-152
- **Humidity:** 98%
- **Lightning & electronic transients:** MIL-STD-9094
- **EMI & RFI:** MIL-STD-461 / 462
- **False alarm rate (catalogue):** Less than 1 per 3 months
- **MTBF (sensor):** 4.7×10^8 h
- **MTTR:** 30 min
- **Warranty:** 10 years on the sensors

5. DETECTION SEQUENCE

1. **Picture sensor:** A strain-gauge sensor behind the frame reads the painting's static force.
2. **Sensor controller:** Picture sensors are wired (4 × 22 AWG) to a sensor controller that forms the alarm zone.
3. **Zone alarm:** Moving, lifting or replacing the painting triggers the zone output.
4. **Floor warning:** D-Pressure Strip in front of the artwork adds a warning on approach.
5. **C&C room:** Alarm, camera and SMS alert reach the control room and D-Command Control.

6. SUBMITTALS

Before installation, the contractor shall submit the manufacturer's datasheet, the installation instructions and the zone layout for approval.