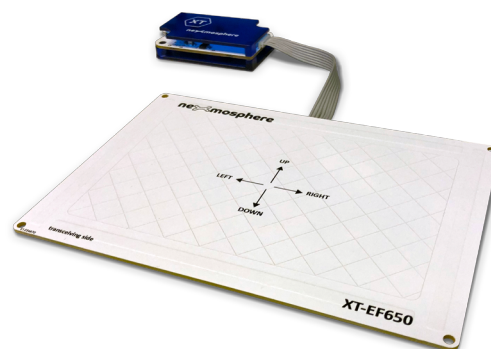


XT-EF650 AIR GESTURE SENSOR

EF-SERIES

The Nexmosphere XT EF-Series offers sensors in various sizes which are able to detect touchless input from the user. The AirButton feature detects whenever a person's hand either enters or leaves the sensor's detection field, sending both events as a status message to your Digital Signage player, while also being able to register and respond to physical Touch input. The AirGesture feature registers and communicates left, right, up, and -down air swipes. All the inputs from these sensors can be used to trigger events on your Digital Signage installations, for example toggling through menu options or offering product, or -service information without having to touch the screen, the merchandise, or any physical buttons.



XT-EF650

The XT-EF650 features AirButton, AirGesture and AirWheel detection and has a detection area of 140 x 90mm.

Features

- AirButton detection for touchless user input
- AirGesture detection for touchless navigation
- AirWheel detection for touchless parameter control
- Adjustable sensitivity

X-talk

The XT EF-Series sensors can easily be connected to any of the Nexmosphere Xperience controllers using the X-talk interface. All settings of the EF sensor are programmable on the Controller, enabling a seamless integration in your application.

- Plug and smile interface
- Compatible with any Nexmosphere Xperience controller
- Powered by and configurable with Nexmosphere Xperience controller

AirButton, AirGesture and AirWheel detection

- AirButton detects when a person's hand is placed above the sensor (AirButton) or when a hand touches the sensor's surface or its overlying panel (Touch).
- AirGesture detects left, right, up, and -down air swipes, facilitating touchless navigation for digital content.
- AirWheel detects left and right circular movements, enabling touchless control of parameters such as audio volume
- Multiple sensitivity settings are available to fine-tune the detection range of the sensor to your application

Benefits

- Very thin form factor for easy integration
- Capacitive sensing technology allows for placement behind or below any non-metal surface
- Various sizes available to match the design of your applications
- Auto-calibration and auto-start for highly reliable applications (24/7)
- Status LED indicating trigger detection

XT-EF650 AIRGESTURE SENSOR

Detection range

- AirButton 130-150 mm*
- AirGesture: 80-100 mm*

*these are the maximum detection distances. The overlaying material and applied sensitivity settings determine the operational detection range in practice.

Electrical Installation specifications

- In order for the sensor to operate responsive and stable, it is required to **earth-ground** the system.*

*Nexmosphere offers earth-grounded power supplies and USB split-cables

Mounting specifications

- The sensor can be installed behind or below any non-metal overlaying top panel.
- Top panel thickness: 1- 22mm
- Minimum spacing between multiple sensors: 80mm

Thermal specifications

Operating temperature: +10°C...+40°C/ +50°F ... +104°F
 Storage temperature: -20°C...+50°C/ -4°F ... +122°F

Electrical specifications

- Operating voltage: 5V DC (via X-talk interface)
- Power consumption: 60mA
- Operation frequency: 44 - 115Khz

Miscellaneous

- Mounting holes for easy fixation
- 1-year warranty (optional 3-year extended warranty available)

Packaging

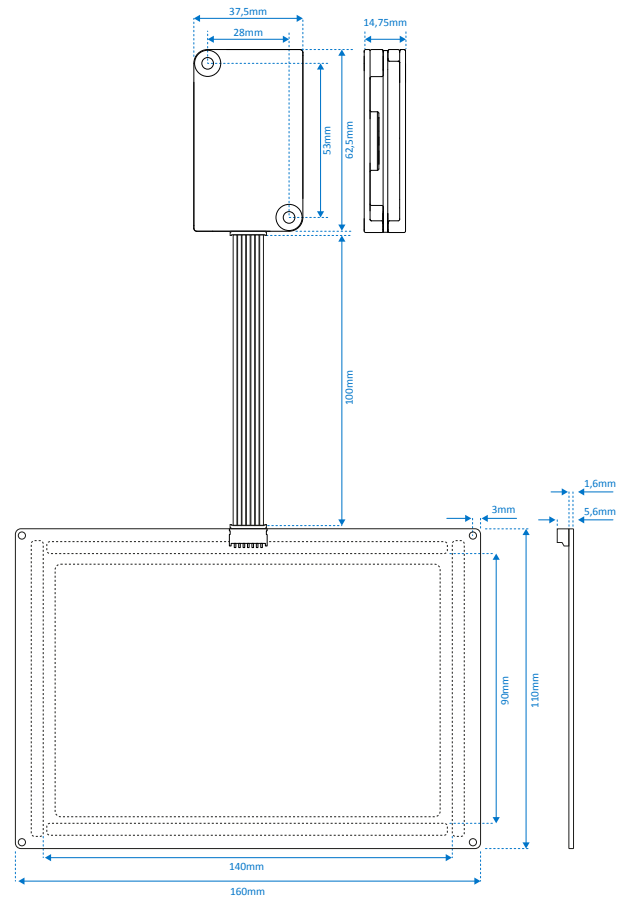
Items per carton 1, 10 or 50 pcs

Standards and Certifications



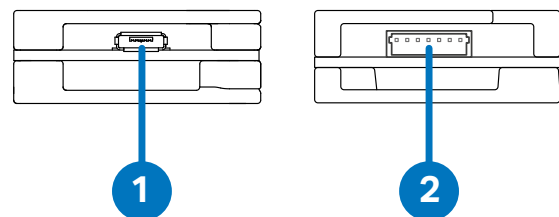
Mechanical dimensions

Electrode LxWxH: 160 x 110 x 1,6 / 5,6 mm
 Detection area LxW: 140 x 90 mm
 Driver LxWxH: 62,5 x 37,5 x 14,8 mm
 Screw fixation: Electrode: 154 x 104 mm
 Driver: 53 x 28 mm



Hardware Interfaces

1. X-talk connector (compatible with CAX-M6W cables)
2. EF-electrode connector



Ordering information

Product ID **Description**

XT-EF650 X-Touch, Air gesture sensor, 160x110mm electrode

Quantity

1 pc

Nexmosphere

Le Havre 136
 5627 SW Eindhoven • The Netherlands

T +31 40 240 7070
 E sales@nexmosphere.com

© 2020 Nexmosphere. All rights reserved. v1.1 / 10-20
 All content contained herein is subject to change without prior notice.