X2 pro

X2 series

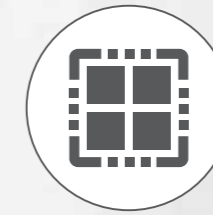## Strong. Stylish. Smart.

BeiJer
ELECTRONICS

X2 series

Strong. Stylish. Smart.

The X2 series is the next generation of HMIs from Beijer Electronics. Five product families combine great design with strong performance to power your HMI solutions. Create smart integrated solutions boosted by iX HMI software and WARP Engineering Studio.

We offer a two-year standard warranty for all operator panels in the X2 series.
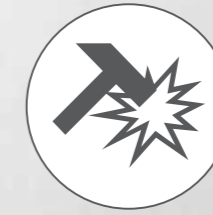
One family, one great design

X2 panels offer a slim, modern design. Consistent across the entire range, adding visual quality to your solution.

All the performance you need

Power-efficient ARM9 processors all the way up to the latest quad core ARM Cortex-A9 processors deliver fast program execution and screen change. It gives you all the performance you need.
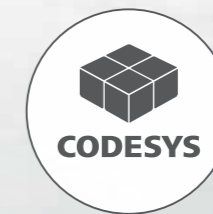
Robust reliability

The robust die cast aluminum body offers great resistance to mechanical stress. We've redesigned the electronics and made other improvements to further enhance solid operation.

Prepared for any environment

X2 panels operate in wide temperature ranges. They offer strong ingress protection and in addition, they hold all the certificates you need to perform in the field.

Integrated CODESYS control

The X2 series offers models with integrated CODESYS IEC 61131-3 PLC functionality directly in the panel by multicore processors for fast, safe program execution.

A simple path forward

It's easy to upgrade your existing iX HMI solution to the X2 series.

X2 extreme
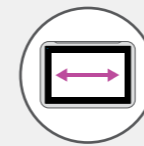## Rugged HMIs for tough environments

X2 extreme panels are certified by all major classification societies. Designed to perform in rugged outdoor environments and in hazardous areas where gases, vapors and dust are present. Extended environmental capabilities include operating temperatures from -30°C to +70°C, high vibrations and high-pressure wash-downs.

X2 extreme panels are available in 7, 12 and 15 inches, all in 3 versions: Panel mount standard and high-performance versions, and fully sealed high-performance versions. All high-performance versions offer high brightness display and optional integrated CODESYS PLC functionality.

See page 24-27 for technical data.

Features X2 extreme

Wide screen format
X2 panels offer wide screen format, designed to succeed the traditional 4:3 square aspect ratio.

UL, CE, FCC and KCC certificates
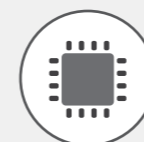The entire X2 range offers a strong standard certification with UL, CE, FCC and KCC certificates.

iX software – why you'll love our hardware
The iX software gives you smart communication tools. iX combines top-class vector graphics and easy-to-use functions that provide reliable operation, and almost limitless connectivity to your other equipment.

Fast forward engineering with WARP
Create integrated HMI, control, drives and data communication solutions with WARP Engineering Studio. WARP automatically configures all hardware, software and communication in your application.

Custom design or non-branded
Profile your brand or go for neutral. X2 panels offer custom designed or non-branded front foils, as alternatives to the standard Beijer Electronics branded versions.

Powerful ARM Cortex-A9 processor
Powerful dual or quad core ARM Cortex-A9 processor delivers fast screen changes and program execution in demanding applications.

Robust aluminum housing
Robust aluminum housing with IP66 front. Resistant to direct rain, snow or high-pressure washdowns, dirt, grime and dust.
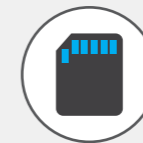
Extreme operating temperature -30°C to +70°C
Extreme -30°C to +70° C operating temperature range guarantees trouble-free use in the harshest environments.

Marine certifications
The X2 panels meet extended classes of marine certifications not normally carried by HMIs, making them suitable for all onboard locations.

Internal CANopen bus
It's easy to interface with controllers using the internal CANopen bus.

SD memory card
Card holder and USB connection are located behind the lid on the back of the panel for smart memory expansion, project backup and application loading.

Dimmable backlight
Comfortable and safe operation in high and low ambient light conditions. Backlight is continuously dimmable to very low brightness.

High brightness display
All high-performance versions feature 1,000 cd/m² backlight providing excellent readability in high ambient light levels such as sunlight.

Add control by CODESYS
All high-performance versions offer integrated CODESYS IEC 61131-3 PLC functionality running on dedicated CPU cores for safe and fast program execution. Just add remote I/Os for a scalable, cost-effective solution.

Certified for hazardous environments
Certified for use in hazardous areas where gases, vapors and dust are present.
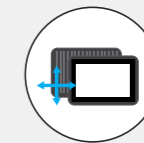
Internal isolation
Internal isolation conforms to marine standards for both burst and surge immunity.

High vibration
Panels are tested to 4 g RMS sweep sine for vibration and 40 g 11 ms half sine for shock.

Panel mount
Panel mount versions hold IP66, NEMA 4X/12 and UL Type 4X/12 ingress protection rating for the front and conform to ATEX Zone 2 and ATEX Zone 22 certification.

Fully sealed
Fully sealed versions with M12 connectors with IP66 ingress protection rating and ATEX/IECEx Zone 2 and Zone 22 (IP65) certification.

ClassNK   BUREAU VERITAS   UL   IECEx   ATEX   DNV-GL   LR   ABS   KR KOREAN REGISTER   CCS   UL   CE   FC   KC