



NIPPON KAIJI KYOKAI

**TYPE APPROVAL CERTIFICATE  
FOR AUTOMATIC DEVICES AND EQUIPMENT**

Certificate No. TA17461M

**This is to certify** that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of "Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use" and the relevant Society's Rules.

This certificate is issued to

Applicant: **Beijer Electronics AB**  
Manufacturer: **Beijer Electronics Corp.**  
Place of Manufacturing: **4F, No.501-15, Zhongzheng Rd., Xindian Dist., New Taipei City, Taiwan**  
Product description: **Operator Panel**  
Model: **X2 extreme family (13 variants)**

Approval No.: **17A021**  
Valid until: **15 October 2022**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 16 October 2017.

  
for *F. Taguchi*  
F. Taguchi  
General Manager  
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

**Specification & documents:**

1. Particulars: Power supply: 12V DC, 24V DC

2. Components and reference drawings:

Type name	Display Size	Power Supply	Drawings
X2 extreme 7 12V	7"	12V DC	DDOC-00028A
X2 extreme 7	7"	24V DC	DDOC-00028A
X2 extreme 7 HP	7"	24V DC	DDOC-00028A
X2 extreme 7 HP SC	7"	24V DC	DDOC-00028A
X2 extreme 7 HP SM	7"	24V DC	DDOC-00028A
X2 extreme 12	12.1"	24V DC	DDOC-00029A
X2 extreme 12 HP	12.1"	24V DC	DDOC-00029A
X2 extreme 12 HP SC	12.1"	24V DC	DDOC-00029A
X2 extreme 12 HP SM	12.1"	24V DC	DDOC-00029A
X2 extreme 15	15.4"	24V DC	DDOC-00030A
X2 extreme 15 HP	15.4"	24V DC	DDOC-00030A
X2 extreme 15 HP SC	15.4"	24V DC	DDOC-00030A
X2 extreme 15 HP SM	15.4"	24V DC	DDOC-00030A

3. Documentation and Test Reports:

Installation Manual MAEN239, 2017-05

Test Report:

ETC Test Report 17-04-MAS-029-01 (2017/06/08)

ETC Test Report 17-04-MAS-029-02 (2017/06/08)

ETC Test Report 17-06-EAT-006-E00

VST Test Report VS-TV-060509-01 (2017/05/21)

VST Test Report VS-TV-060509-02 (2017/05/21)

VST Test Report VS-TV-060509-03 (2017/05/21)

VST Test Report VS-TV-060509-04 (2017/05/21)

VST Test Report VS-TV-060509-05 (2017/05/21)

VST Test Report VS-TV-060509-06 (2017/05/21)

VST Test Report VS-TV-060509-07 (2017/05/21)

UT Test Report UT106095 (June 28, 2017)

CAL Test Report 170418001T (2017/05/22)

CSU Test Report SS-A106-110-E (21 August 2017)

CCSRF Test Report T170428D05-E (May 24, 2017)

CCSRF Test Report T170428D08-E (May 24, 2017)

CCSRF Test Report T170428D10-E (May 24, 2017)

CCSRF Test Report T170428D11-E (May 24, 2017)

CCSRF Test Report T170428D12-E (May 24, 2017)

CCSRF Test Report T170428D13-E (May 24, 2017)

CCSRF Test Report T170428D14-E (May 31, 2017)

Flame Retardant test GO17080903 (August 25, 2017)

Confirmation Test Report (2017/10/3)

**Test items & approval conditions:**

## 1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±4.0g × 1.5 hours)		X
Inclination test		X
Cold test (Temperature -30°C × 16 hours)		X
Salt mist test		X
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		X

## 2. Approval condition:

Nil