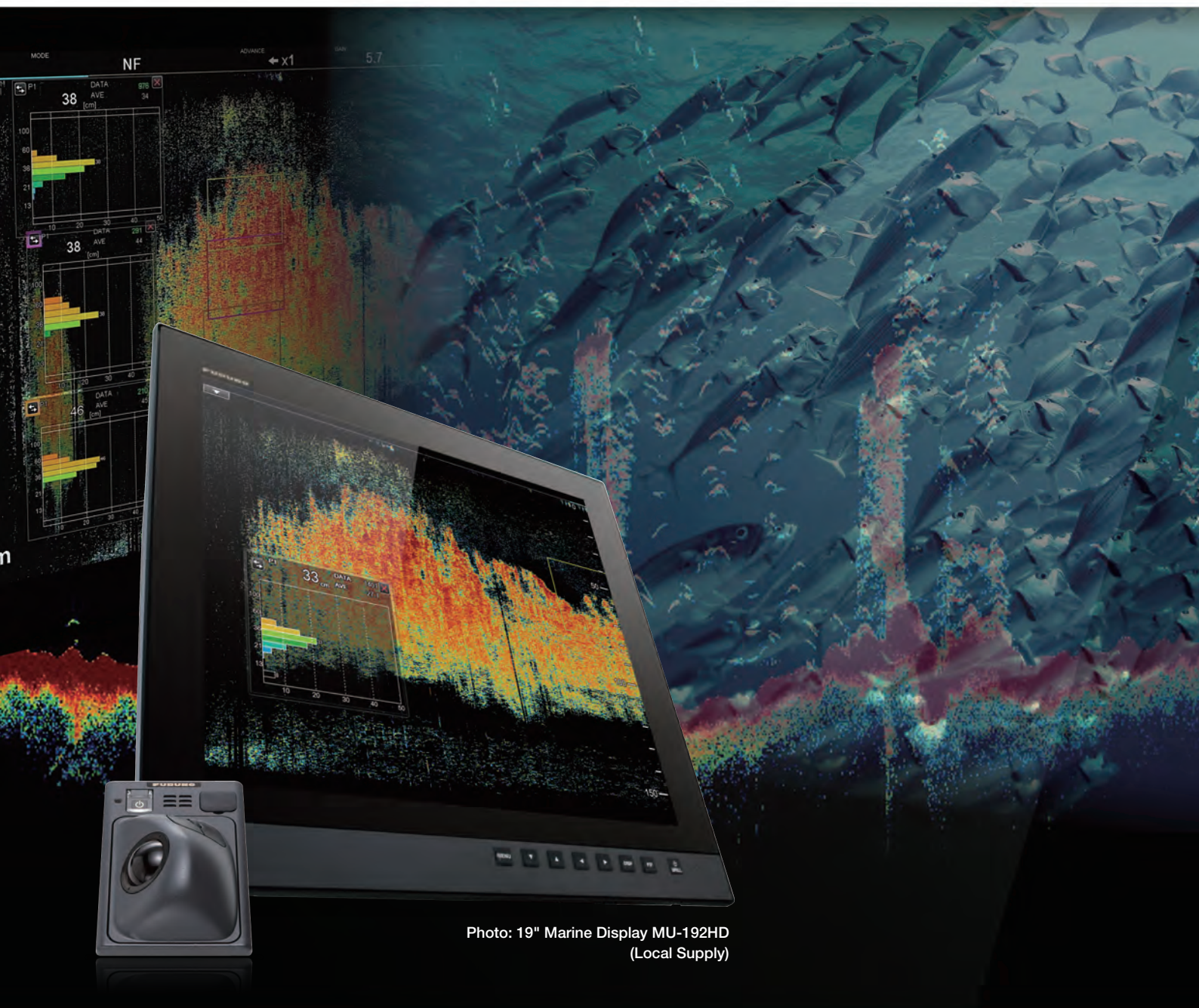


# FURUNO

# TruEcho CHIRP WITH FISH SIZE INDICATOR

Model

# FCV-2100-MARK-2

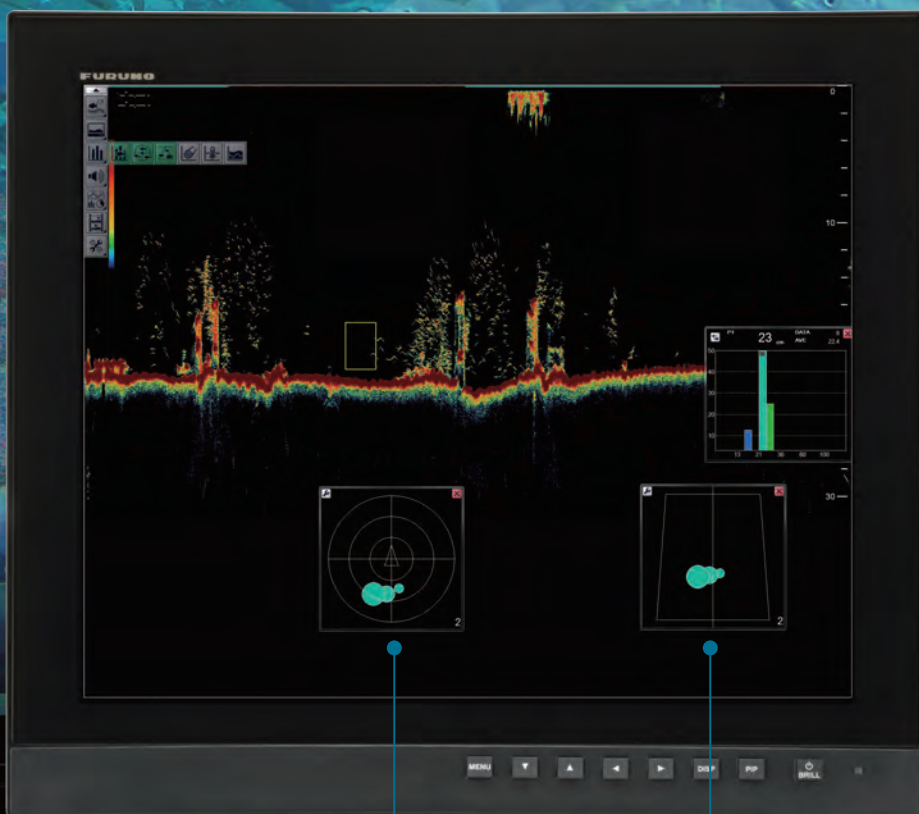


[www.furuno.com](http://www.furuno.com)

By combining Split Beam technology with FURUNO's TruEcho CHIRP™, we have achieved higher-resolution target images and accurate fish size detection even in situations that require high distance resolution, such as detecting fish size in densely packed schools within the mid-surface layer zone, or to discriminate single fish near the seabed.

#### FISH DISTRIBUTION

The fish distribution display shows the position and movement of the fish targets. Fish echoes from the last three scans are displayed. The color of the circle indicates strength of individual fish echo, which helps to track schools.



Vertical target graph

Horizontal target graph

Photo: 19" Marine Display MU-192HD  
(Local Supply)

**TruEcho CHIRP WITH FISH SIZE INDICATOR**  
**Model FCV-2100-MARK-2**

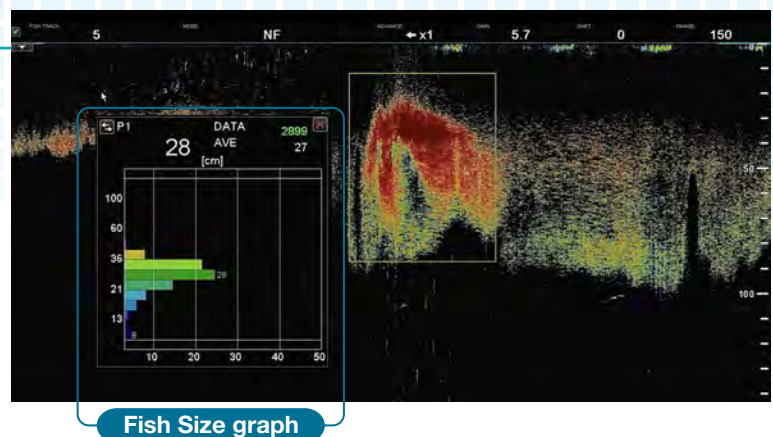
# *Higher accuracy and clearer target images make the most of your time fishing!*

## *- Combining Split Beam and TruEcho CHIRP™ -*

### Display remarkably accurate fish size measurements in an easy-to-understand graph form\*

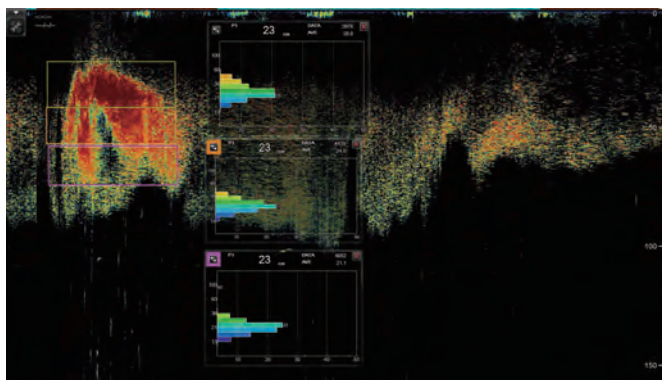
The FCV-2100-MARK-2 measures the size and distribution of fish in the selected school, and displays this information in a graph that can be understood at a glance. TruEcho CHIRP™ technology has improved the accuracy and reliability of fish size measurements and graphs.

\* Fish size is a reference value calculated from reflection intensity.

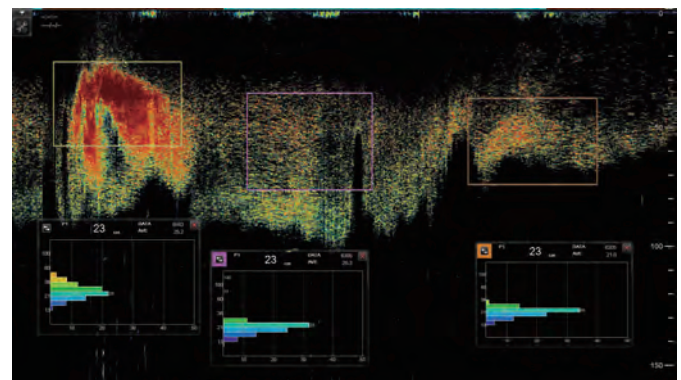


### Simultaneously display fish size measurement ranges and results in three specific areas

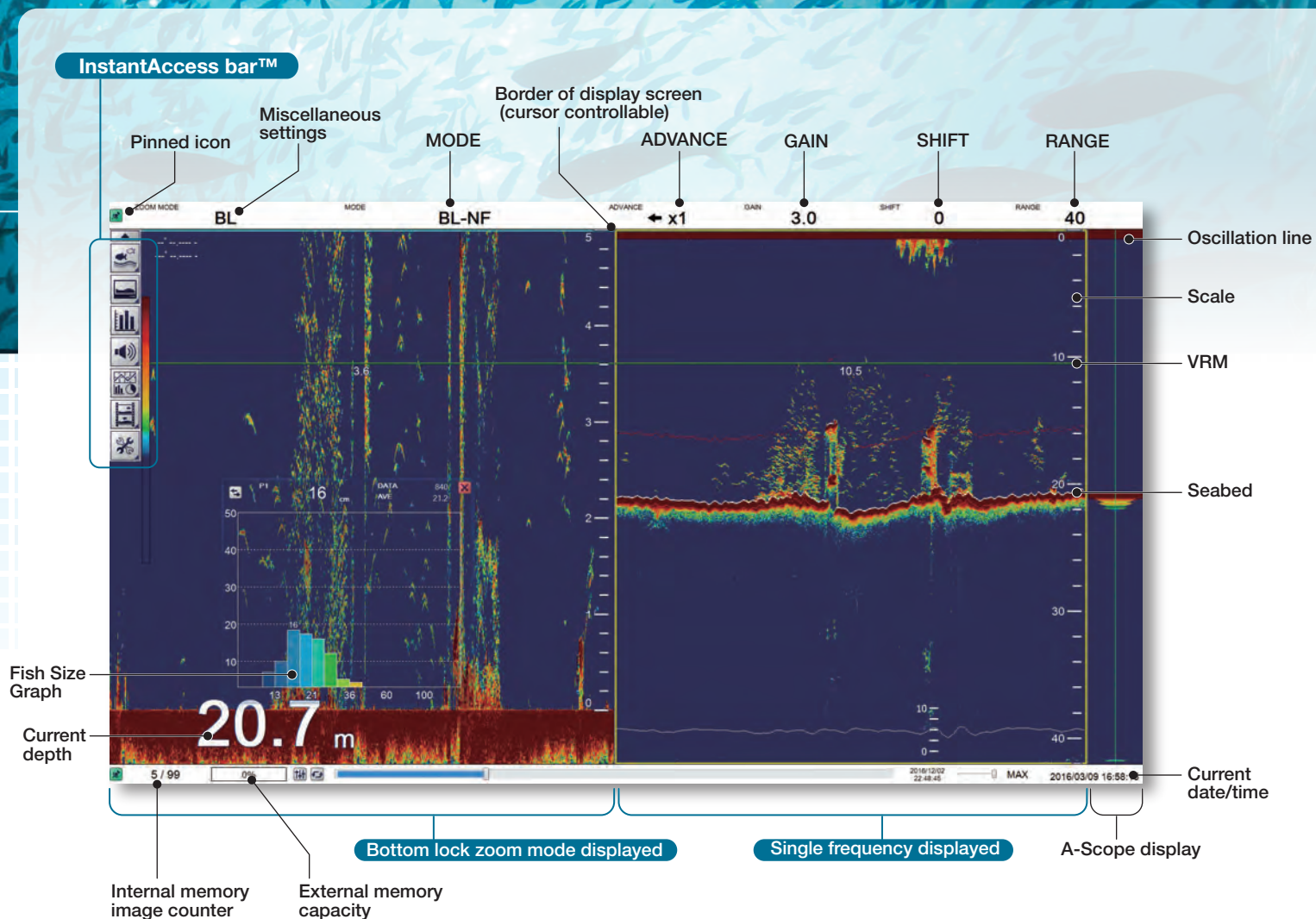
The FCV-2100-MARK-2 can measure and display fish sizes in three locations at the same time. This allows you to compare and analyze fish size and school composition, which makes for more efficient fishing, such as aiming for fish of a particular size.



Example of fish size graphs showing sardines at different school densities



Example of fish size graphs of sardines over time



## Simple operation with trackball and InstantAccess bar™

The FCV-2100-MARK-2 can be operated easily and quickly with its trackball. The screen header also contains Range, Shift, Sensitivity, Image Feed, and Display Mode menus that can be immediately accessed when required. Other functions can also be accessed immediately by setting them in the InstantAccess bar™ as desired\*.

\* Up to 10 functions can be set in the InstantAccess bar™



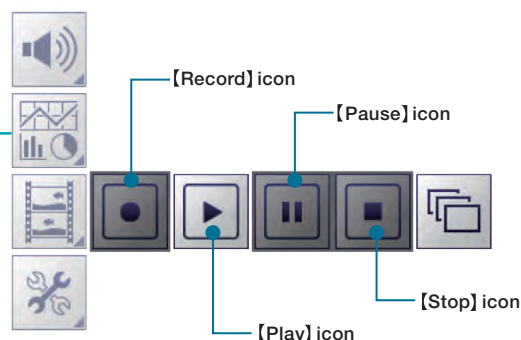
Trackball Control unit



## Echo data can be recorded and played back

A maximum of 99 still images can be saved on the processor unit. The maximum number that can be saved externally depends on the capacity of the external recording medium\*. Echo data can also be saved to an external medium with a capacity of 500 GB or more\*.

\* Local Supply





## ■ Checking past images with the convenient scroll-back mode

By scrolling the screen back, you can review past images. A very useful feature for when you want to see a school of fish that has passed by.

## ■ Makes your fishing operation more efficient

By identifying the approximate size of the targeted fish beforehand, the FCV-2100-MARK-2 enables selective fishing, making fishing operations more efficient.

## ■ Connect to High-Power DFF3-UHD Network Fish Finder\* for greater depths

Up to three echo images at different frequencies can be displayed in one screen.

The differences in responses for each fish species are clearly visible at a glance, which helps in identifying and estimating the species.

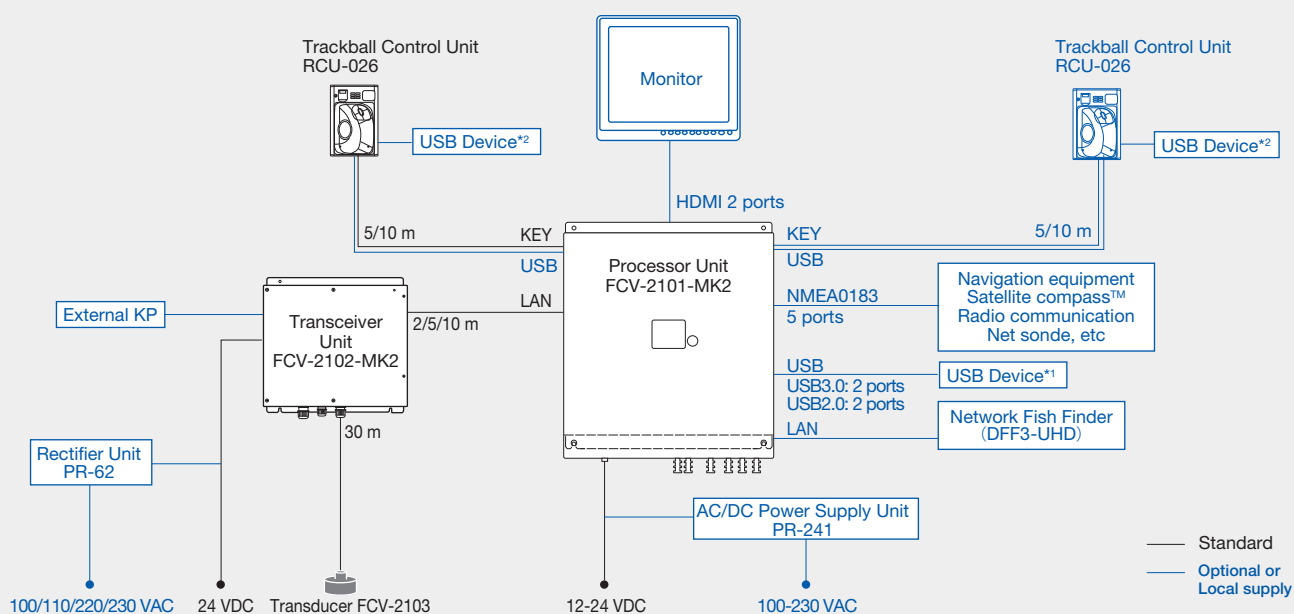
\* DFF3-UHD network Fish Finder is sold separately.  
DFF3-UHD operating at 2kW or 3kW for detecting fish in deeper water.  
Only one can be connected.

## ■ Stable searching with heave correction function\*

The heave correction function enables the ability to show you an unwavering presentation of the seabed, without undulations caused by sea conditions.

\* Requires connection to Satellite Compass™.

### INTERCONNECTION DIAGRAM



\*1 Up to 4 USB device incl. RCU-026 can be connected.

\*2 USB cable is required to connect the processor from RCU-026

## SPECIFICATIONS

### 1. GENERAL

|                        |                       |
|------------------------|-----------------------|
| Transmitting frequency | 100 kHz nominal       |
| Output power           | 1 kW, FM transmission |
| Transmitting rate      | 800 pulse/min or less |
| Pulse length           | 0.04 ms               |

### 2. PROCESSOR UNIT

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Color indication      | 64 colors (16 colors setting available)                                                         |
| Hue                   | 8 steps (Standard, Hue1 to 6, customized)                                                       |
| Echo display mode     | Single mode, Zoom, External sounder display                                                     |
| Zoom display          | Bottom-lock expansion, Bottom zoom, Marker zoom, Discrimination zoom                            |
| Fish size measurement | Histogram                                                                                       |
| Depth range           | 10 to 800 m                                                                                     |
| Range shift           | 800 m max.                                                                                      |
| Expansion range       | 2 to 200 m                                                                                      |
| Display advance speed | 7 steps (Lines/TX: Freeze, 1/4, 1/2, 1/1, 2/1, 4/1, 8/1)                                        |
| Data recording        | Echo pictures and raw data can be recorded<br>(The raw data recording requires external memory) |
| Language              | English, French, Japanese, Norwegian, Spanish                                                   |

### 3. INTERFACE

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| Number of port               | 2 ports (Type A)                                                                           |
| HDMI                         | XGA (1024×768), SXGA (1280×1024), Full HD (1920×1080), UXGA (1600×1200), WUXGA (1920×1200) |
| NMEA                         | 5 ports, NMEA0183 V1.5/2.0/3.0                                                             |
| KEY                          | 2 port, RS-485, For control unit                                                           |
| LAN                          | 2 ports(for transceiver unit, external sounder /maintenance), Ethernet, 100Base-TX         |
| USB                          | 4 ports, USB2.0: 2 ports, USB3.0: 2 ports                                                  |
| External KP control          | 1 port                                                                                     |
| NMEA0183 data sentences      | Input: GGA, GLL, GNS, MTW, VHW, VTG, ZDA<br>Output: DBS, DBT, DPT, MTW, TLL                |
| Output proprietary sentences | PFEC: SDbhr, SDes1, SDes2, SDesd, SDflg, SDmrk, pidat                                      |

### 4. POWER SUPPLY

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Transceiver unit                 | 24 VDC, 1.6 A                          |
| Processor unit                   | 12-24 VDC, 4.0-2.0 A                   |
| Rectifier unit (PR-62, option)   | 100/110/220/230 VAC, 1 phase, 50/60 Hz |
| AC/DC Converter (PR-241, option) | 100-230 VAC, 1 phase, 50/60 Hz         |

### 5. ENVIRONMENTAL CONDITIONS

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Ambient temperature  | Transceiver unit: -15°C to +55°C (storage: -30°C to +70°C)<br>Processor/Trackball control unit: -15°C to +55°C |
| Relative humidity    | Processor/Transceiver unit: IP22<br>Trackball control unit: IP22 (IPX0:USB cover opened)                       |
| Degree of protection | 95 % or less at +40°C                                                                                          |
| Vibration            | IEC60945 Ed.4                                                                                                  |

## EQUIPMENT LIST

### Standard

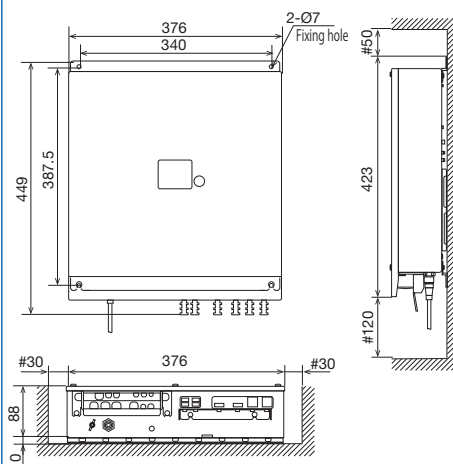
1. Processor unit FCV-2101-MK2
2. Trackball control unit RCU-026 with 5 m cable
3. Transceiver unit FCV-2102-MK2
4. Transducer FCV-2103 with 30 m cable
5. Spare parts, Installation materials

### Option

Rectifier Unit PR-62, AC/DC Power Supply Unit PR-241, HDMI/DVI Cable, LAN Cable, Flush mount kit for trackball control unit OP24-27, Ferrite core, Installation materials

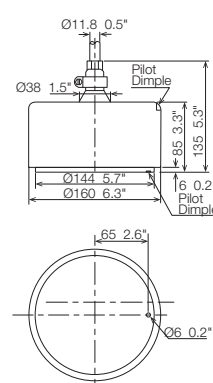
## PROCESSOR UNIT

FCV-2101-MK2  
8.0 kg 17.6 lb



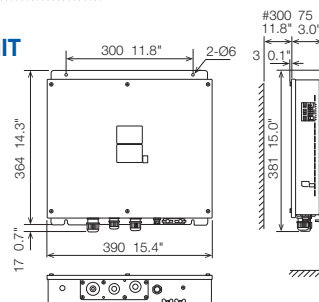
## TRANSDUCER

FCV-2103  
7.0 kg 15.4 lb



## TRANSCIVER UNIT

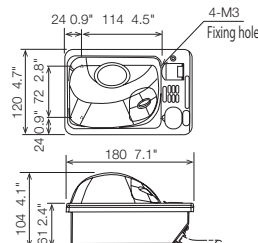
FCV-2102-MK2  
5.2 kg 11.5 lb



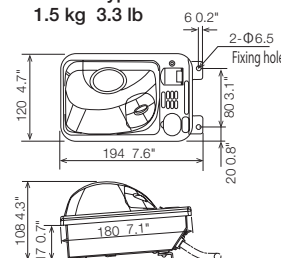
## TRACKBALL CONTROL UNIT

RCU-026

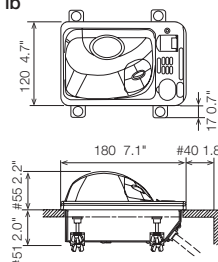
Desktop type  
1.4 kg 3.1 lb



Built-in type  
1.5 kg 3.3 lb



Flush mount type  
1.5 kg 3.3 lb



Beware of similar products

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B-2508LB  
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