

**SPECIFICATIONS OF FISH FINDER  
FCV-38**

**1 TRANSCIEVER UNIT**

- 1.1 Transmitting frequency 38 kHz
- 1.2 Output power 4 kW
- 1.3 Number of channel 64 ch
- 1.4 Transmitting mode CW/FM
- 1.5 Transmit rate 1200 pulse/min. max.
- 1.6 Beam control range Bow/stern, port/stbd within 20°

**2 PROCESSOR UNIT**

- 2.1 Display range 10 to 3000 m
- 2.2 Range shift 2000 m max.
- 2.3 Expansion range 2 to 200 m
- 2.4 Display mode Single, Multi-beam combination, Zoom,  
External fish finder combination
- 2.5 Zoom display Bottom zoom, Bottom lock expansion, Marker zoom,  
Discrimination zoom
- 2.6 Advance speed Freeze, 1/16, 1/8, 1/4, 1/2, 1/1, 2/1, 4/1, 8/1 (Lines/TX)
- 2.7 Fish size histogram Display three points simultaneously
- 2.8 Alarm Bottom, Fish, Bottom fish, Water temperature, Fish size histogram
- 2.9 Language English (UK/US), Japanese
- 2.10 Display function (commercial monitor required)
  - Resolution 1920 x 1200 (WUXGA), 1920 x 1080 (FHD), 1600 x 1200 (UXGA),  
1024x1280 (SXGA), 1024 x 768 (XGA)
  - Video output 2 ports, HDMI (Type-A)
  - Colors 64/16 (Echo)
  - Contrast Standard, #1 to #5 or User setting

**3 INTERFACE**

- 3.1 Number of port (processor unit)
  - Serial 5 ports, NMEA0183 V1.5/2.0/3.0
  - LAN 2 ports (for transceiver unit, external sounder/maintenance),  
Ethernet 10/100/1000Base-T
  - USB USB 2.0: 2 ch, USB 3.0: 2 ch
- 3.2 Data sentences
  - Input GGA, GLL, GNS, MTW, VHW, VTG, ZDA  
GPatt, GPhve, IIDAD, IIDBS, IIHFB, IIMTW, IITPC, IITPT, MPMSD,  
pireq, SDDBS, SDfnz
  - Output DBS, DBT, DPT, MTW, TLL, SDbhr, SDflg, SDmrk, pidat

**4 POWER SUPPLY**

- 4.1 Processor unit 12-24 VDC: 4.0-2.0 A
- 4.2 Transceiver unit 100-120/200-240 VAC: 5 A max, 1 phase, 50/60Hz

**5 ENVIRONMENTAL CONDITIONS**

## 5.1 Ambient temperature

Processor unit -15°C to +55°C (storage: -15°C to +70°C)

Transceiver unit -10°C to +45°C (storage: -15°C to +70°C)

Control unit/Junction box -15°C to +55°C

Transducer -5°C to +35°C

## 5.2 Relative humidity 93% or less at +40°C

## 5.3 Degree of protection

Processor/ Transceiver unit IP22

Control unit IP22 (IPX0 w/o USB port cover )

Junction box IP20

Transducer IPX8

## 5.4 Vibration IEC 60945 Ed.4

**6 UNIT COLOR**

## 6.1 Transceiver unit/ Junction box

2.5GY5/1.5

## 6.2 Processor/ Control unit N2.5