FURUNO

FISH FINDER

Model **FCV-1900**

See underwater *clearly and accurately* with incredible high definition echoes
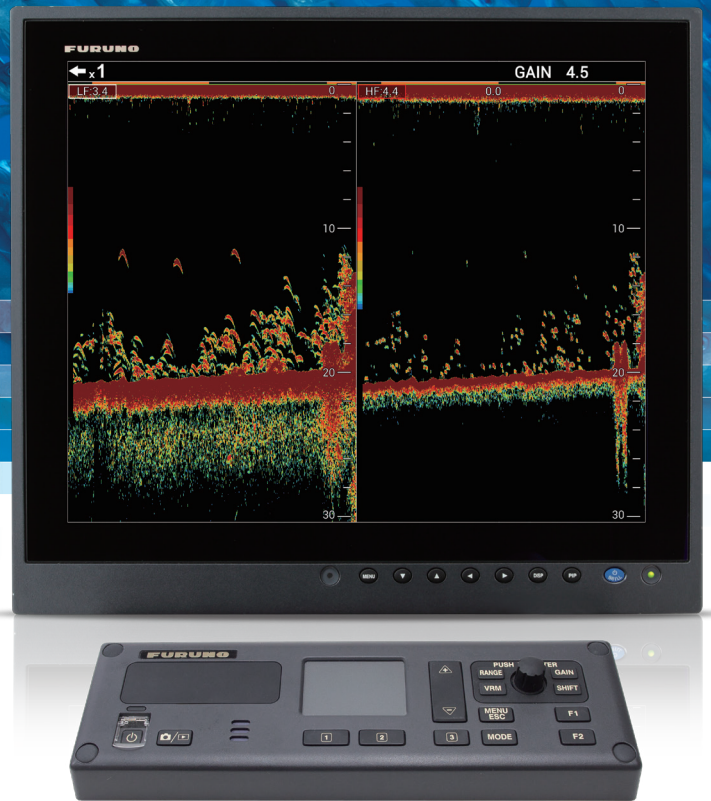
Photo: 19" Marine Display MU-190HD
(Optional supply)

FDF
FURUNO Digital Filter

ACCU-FISH

FFS

AUTO

BlackBox

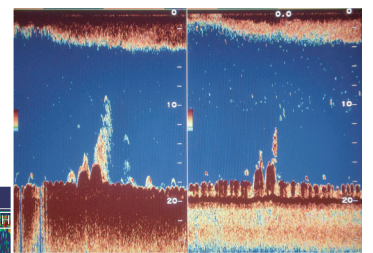**www.furuno.com**

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Photo: 19" Marine Display MU-190HD
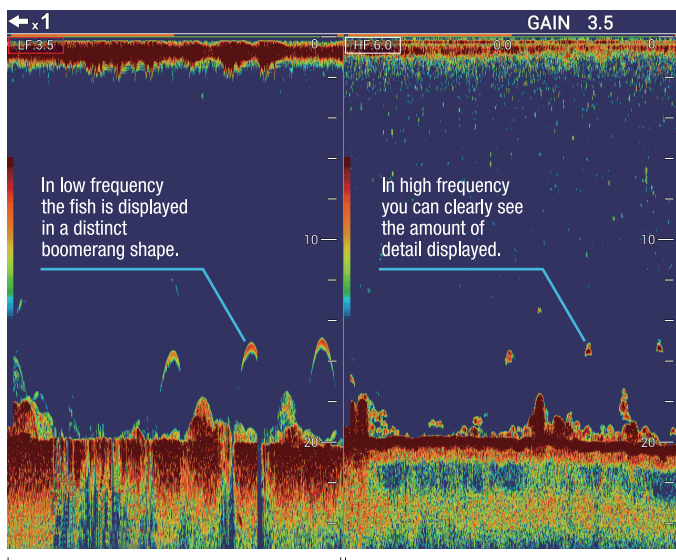(Marine Display and Hanger are optional supply)

Increased transmission rate for more details

With a transmission rate that has been increased by up to 1.4 times (at 200 m range), FCV-1900 ensures excellent target separation and clarity.
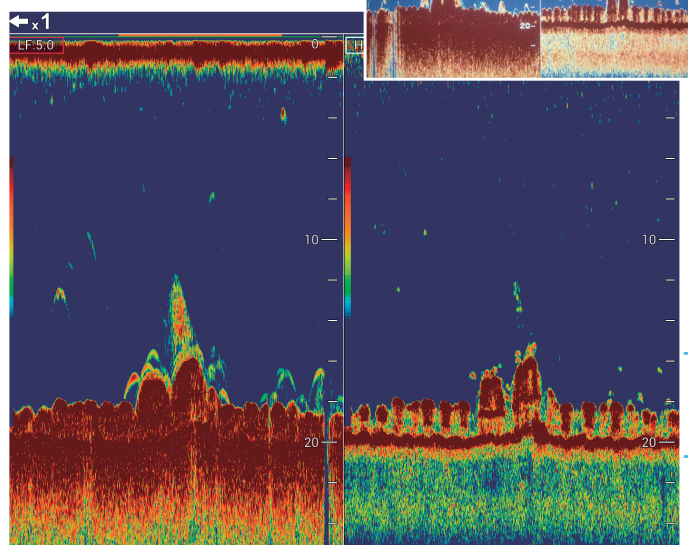
Same scene captured with previous model

Individual fish

In low frequency the fish is displayed in a distinct boomerang shape.

In high frequency you can clearly see the amount of detail displayed.

Low Frequency

High Frequency

Artificial reefs

See artificial reefs in greater detail

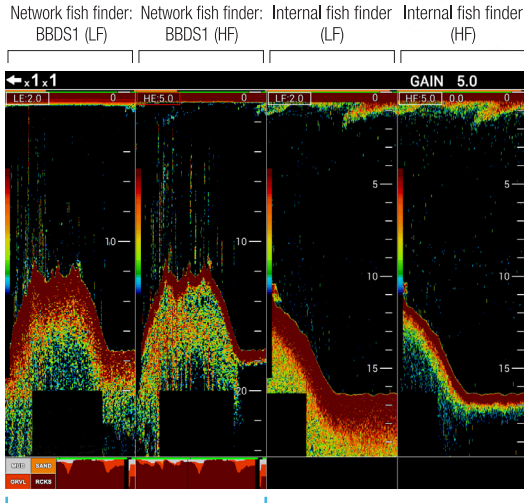▶ You can find more information and media by searching for FCV-1900 on FURUNO.com

FCV-1900

Functions for improved efficiency

Display up to four different frequencies

Display up to four different frequencies together in a compact and easy way by connecting a required network fish finder. Since there is no need to install additional displays, this system is especially useful for small vessels.
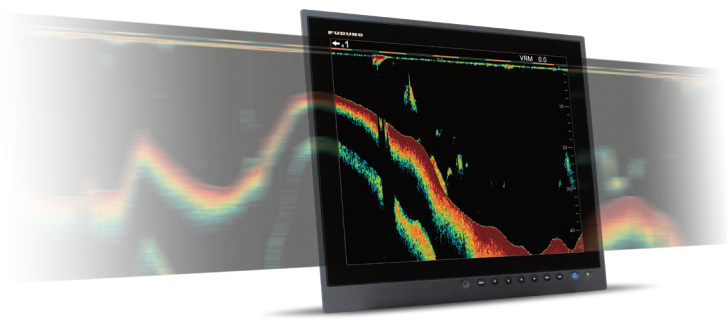

Network fish finder: BBDS1 (LF) | Network fish finder: BBDS1 (HF) | Internal fish finder (LF) | Internal fish finder (HF)

Connect a BBDS1 network fish finder for bottom discrimination function

The bottom discrimination function indicates whether the bottom is composed mainly of rocks, gravel, sand or mud. This information aids in identifying fish species, which can increase efficiency.

Probability mode ······ Rocks | Sand | Gravel | Mud
Graphic mode ·········· Rocks | Sand | Gravel | Mud

BDS
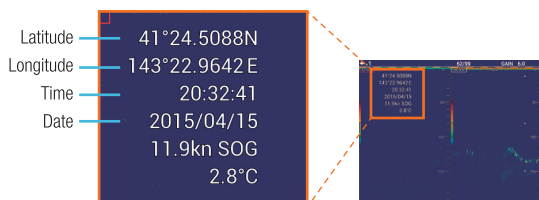Bottom Discrimination Sounder

Scroll back function

With the press of a button you can activate the scroll back function to instantly review past echoes. Up to two previous screens can be viewed.
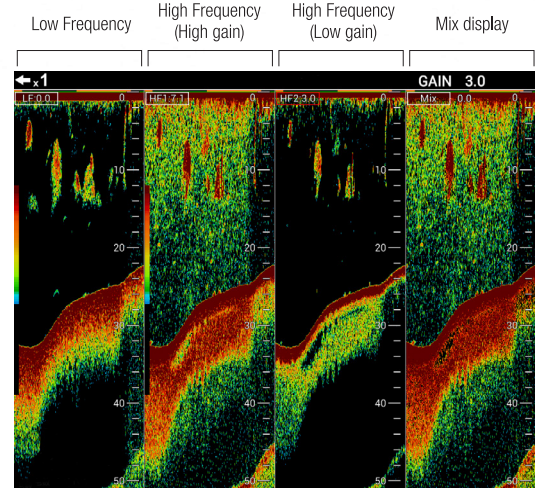

Capture and review videos and screenshots*

Now you can capture screenshots and video when dropping your net or when searching for fish. Captured screenshots and video display position* and time of capture, for simple review. Improve your fishing by comparing fish finder echoes with your resulting catches.

*GPS input required. *Feature coming soon.

Latitude — 41°24.5088N
Longitude — 143°22.9642E
Time — 20:32:41
Date — 2015/04/15
11.9kn SOG
2.8°C

Simultaneous gain setting for increased visibility

Display two different gain settings simultaneously for increased visibility in changing water conditions and when changing vessel speed.

Low Frequency | High Frequency (High gain) | High Frequency (Low gain) | Mix display

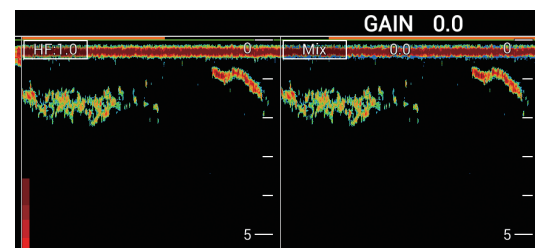## FURUNO Free Synthesizer transceiver for adjustable operating frequency

Retrofitting is made easy. With FFS technology, you can easily replace an FCV-1200L processor unit while utilizing the same transducer for convenient installation.

Improved control unit for simple and intuitive operation

The control unit features a water resistant touch pad that works even when wearing rubber gloves. You can use the touch pad for setting up VRM and TLL in an instant.

Zero Line Rejection

Observe clear echoes from just 3 meters below your vessel with Zero Line Rejection, allowing you to better analyze the water column from near to far.

Upgrade to FCV-1900B Hi-Res Fish Finder or FCV-1900G Fish size indicator

By purchasing and installing a software license, you can upgrade your FCV-1900 model to a FCV-1900B Hi-Res Fish Finder* or a FCV-1900G Fish Size Indicator*, both utilizing the latest TruEcho CHIRP™ technology. FCV-1900G offers a precise fish size histogram for accurate estimation of fish size and density of schools of fish. With fish size histogram, targets can be properly evaluated, spelling increased efficiency andprofitability. For further details, please contact your local FURUNO national distributor.

*TruEcho CHIRP™ compatible transducer required.

SPECIFICATIONS

1. GENERAL
1.1 Transmitting frequency   15 kHz to 200 kHz, Free-synthesize
1.2 Output power   1, 2 or 3 kW rms
1.3 Transmitting rate   10 to 2700 pulse/min
     (5 to 3000 m range, normal mode)
1.4 Transmitting mode   Standard mode only
1.5 Pulselength   0.05 to 5 ms
1.6 External monitor (required specifications)
     Display resolution   XGA (1024x768), SXGA (1280x1024),
     FHD(1920x1080)
     SXGA (1024x1280)

2. PROCESSOR UNIT
2.1 Color indication
     Echo color   8, 16 or 64 colors according to echo intensity
     Back color   Select from 5 colors
2.2 Hue   7 steps (standard, Hue 1 to 5, customized)
2.3 Echo display mode   Single mode (high/low frequency), Dual-frequency,
     Zoom, User 1/2
     User 1/2 available to use mixture, multi-gain,
     telesounder and external sounder display
2.4 Zoom display   Bottom-lock expansion, Bottom zoom,
     Marker zoom, Discrimination zoom
2.5 Depth range   5 to 3000 m
2.6 Range shift   2000 m max.
2.7 Expansion range   2 to 200 m
2.8 Display advanced speed   6 steps (Lines/TX: Freeze, 1/4, 1/2, 1/1, 2/1, 4/1)
2.9 Data recording   Echo display and measured data can be recorded in
     internal memory
2.10 Language   Chinese, Danish, English, French, Japanese, Korean,
     Russian, Spanish, Norwegian

3. INTERFACE
3.1 Number of port
     NMEA   3 ports, NMEA V1.5/2.0/3.0
     LAN   1 port, Ethernet 100Base-TX (HUB required)
     CIF   1 port
     Net sonde   1 port, (sonde marker/ sonde KP)
     Video signal   1 port, HDMI type-D
     External KP   1 port
     Temperature sensor   1 port
     USB   1 port, USB2.0
     (specified monitor brilliance control available)
3.2 Data sentences
     Input   GGA, GLL, GNS, MTW, VHW, VTG, ZDA
     Output   DBS, DBT, DPT, MTW, TLL
3.3 Output proprietary sentences
     PFEC   SDbcd, SDflg, SDmrk, pidat

4. POWER SUPPLY
4.1 Processor unit   12-24 VDC: 8.3-3.9 A
     Rectifier (RU-1746B-2, option)   100/110/115/220/230 VAC, 1 phase, 50/60 Hz
     AC/DC power supply unit   100-115/200-230 VAC, 1 phase, 50-60 Hz
     (PR-240, option)

5. ENVIRONMENTAL CONDITIONS
5.1 Ambient temperature   -15°C to +55°C
5.2 Relative humidity   95% or less at +40°C
5.3 Degree of protection   IP22
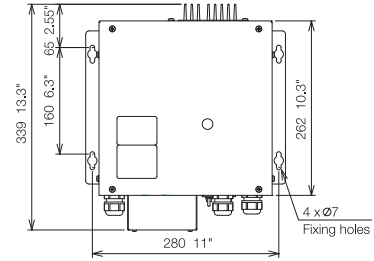5.4 Vibration   IEC 60945 Ed.4

EQUIPMENT LIST

Standard
1. Processor Unit (FCV-1901) ············ ·x1
2. Control Unit (FCV-1902) ··············· · x1
3. Spare parts, Installation materials

Option
Transducer, Thru-hull pipe, Interface Unit (FCV-1903), Ethernet HUB,
Junction box, Booster box, Temperature sensor,
AC/DC power supply unit, Rectifier, Installation material,
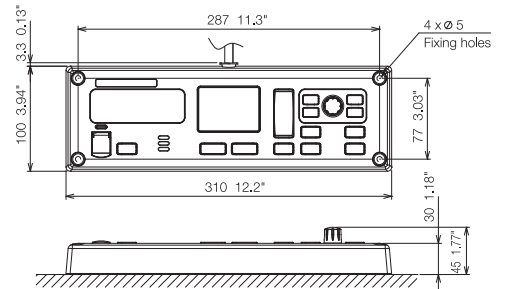Cable assembly, Cable (for transducer extension)
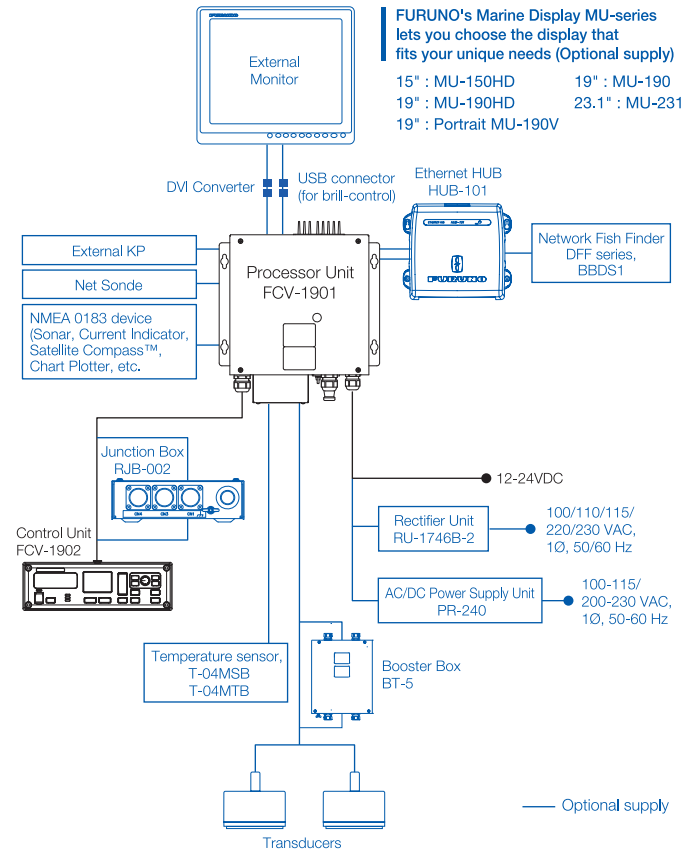
Processor Unit
FCV-1901
10.2 kg 22.5 lb

Control Unit
FCV-1902
1.1 kg 2.4 lb

Interconnection Diagram

FURUNO's Marine Display MU-series
lets you choose the display that
fits your unique needs (Optional supply)

15" : MU-150HD   19" : MU-190
19" : MU-190HD   23.1" : MU-231
19" : Portrait MU-190V

External Monitor
DVI Converter
USB connector (for brill-control)
Ethernet HUB HUB-101
External KP
Net Sonde
Processor Unit FCV-1901
Network Fish Finder DFF series, BBDS1
NMEA 0183 device (Sonar, Current Indicator, Satellite Compass™, Chart Plotter, etc.
Junction Box RJB-002
12-24VDC
Control Unit FCV-1902
Rectifier Unit RU-1746B-2
100/110/115/220/230 VAC, 1Ø, 50/60 Hz
AC/DC Power Supply Unit PR-240
100-115/200-230 VAC, 1Ø, 50-60 Hz
Temperature sensor, T-04MSB T-04MTB
Booster Box BT-5
Transducers
—— Optional supply

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE