FURUNO

MODEL

CSH-10

360-Degree Omni Scanning Sonar



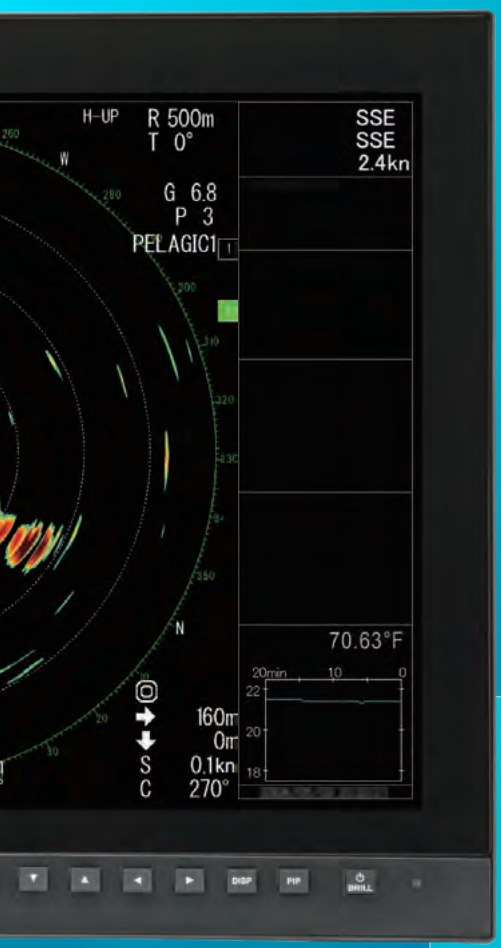


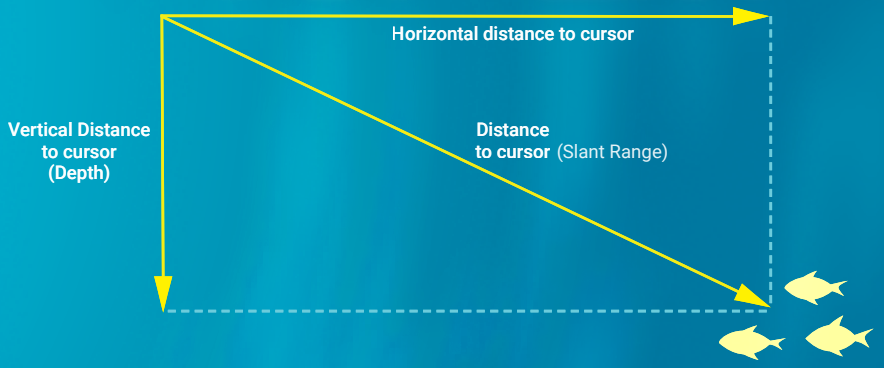
Display: Color LCD display
(Display sold separately)

www.furunousa.com

Key Features

- **Scan 360° around your boat** - Real-time, 360 degree target detection delivers immediate recognition of trophy fish, bait balls, and underwater structure, ensuring you're always on top of the action!
- **Beam stabilization** - Furuno's unique technology delivers clear and stable images in rough seas, giving you confidence that your Sonar will deliver accurate information no matter the conditions
- **Target Lock function** - Lock onto fast-moving schools of fish or fixed targets
- **Improved image clarity & range** - The CSH-10 features upgraded display colors and clearer resolution, making it easier to distinguish between fish and underwater terrain
- **Detection ranges up to an incredible 900 meters (over 2,900 feet)** - You'll have a clear & immediate picture of what's happening below the surface in all directions for over half a mile!
- **Compact and intuitive control unit** - With a user-friendly RotoKey™ and trackball for smooth and responsive operation
- **Optional wireless remote control** - Adjust your Sonar settings from anywhere on the boat, so you can focus on the catch
- **New! Data recording and playback** - Save images and videos for future viewing





A tilt indicator has been added to easily see:

- **Tilt angle**
- **Linear / horizontal / vertical distance to cursor**
- **Beam detection range**
- **Beam width top & bottom depth**

Remotes

The new control unit is more compact than previous models, making it easy to install.

Popular function keys, tilt lever, sensitivity/range knob, and large trackball are retained, and a new RotoKey™ is now included.

With a remote control unit, you can easily set the range, tilt angle, and sensitivity from a distance. The multifunctional programmable wireless remote control can be used with up to four units via Bluetooth connection.



RotoKey

SCU-002
Control Unit (required)



SCU-003
Small Switch Box



SCU-001
Remote Control (wireless)



FSV-854-MK2
Remote Control (wired)

MODEL

CSH-10

360-degree Omni Sonar

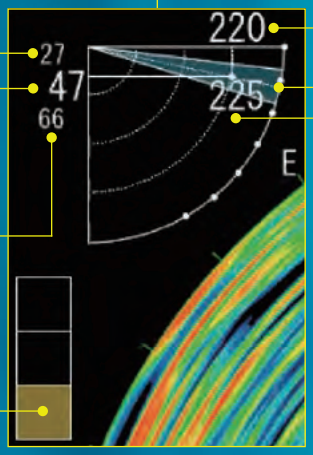
The CSH-10 360-degree Full-Circle Omni Sonar is designed for serious sportfishing, delivering the speed, precision, and performance you need to succeed on the water.

This 83.5kHz Omni Sonar with an adjustable beam width perfect for detecting schools of fish near the surface while improving long range detection.

The CSH-10 brings sportfishing to a whole new level with enhanced detection, ease of use, and rugged durability. Whether you're chasing trophy fish or just out for a weekend adventure, this Sonar gives you the tools to make every trip a success.



Easy-To-See Tilt Display



Depth of top edge of beam width

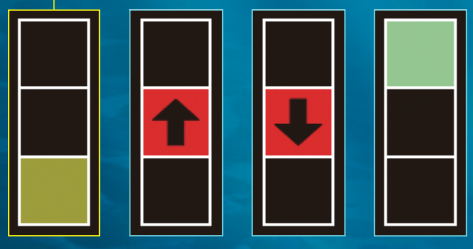
Cursor depth

Depth of bottom edge of beam width

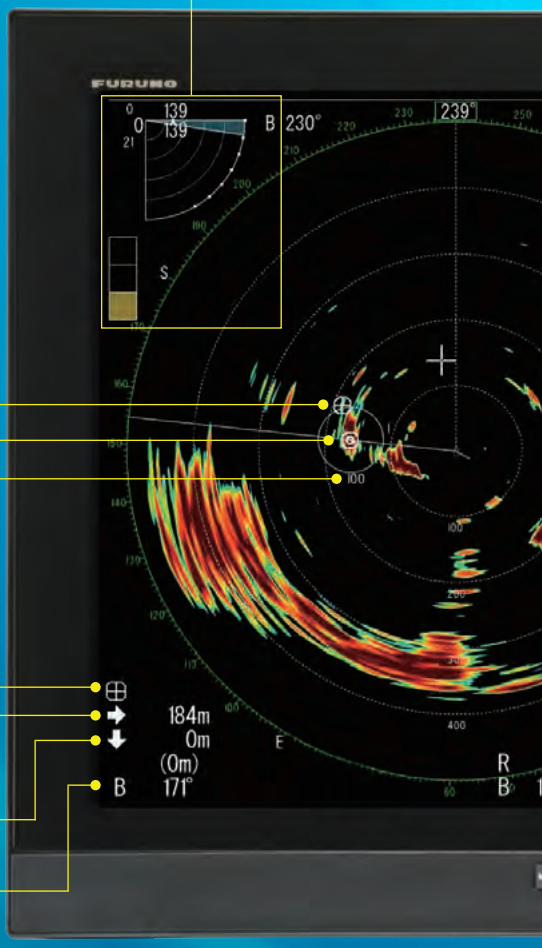
Horizontal distance to cursor

Detection range (beam display)

Straight line distance to cursor (Slant range)



Position indicator lets you see the transducer position at a glance!



Event mark target

Lock mark / Fish quantity mark

Fish quantity mark diameter

Event mark

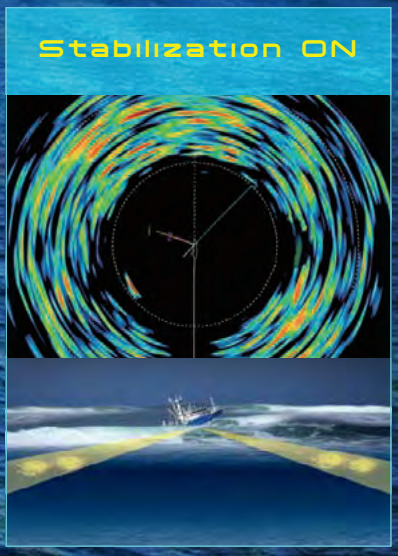
Horizontal distance from own ship mark

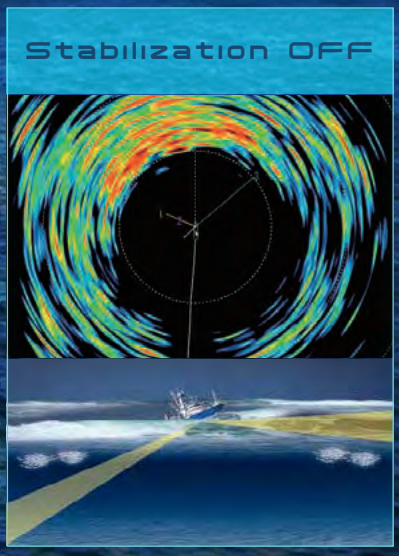
Current depth (Depth of the mark when the event mark key is pressed)

Bearing to the mark



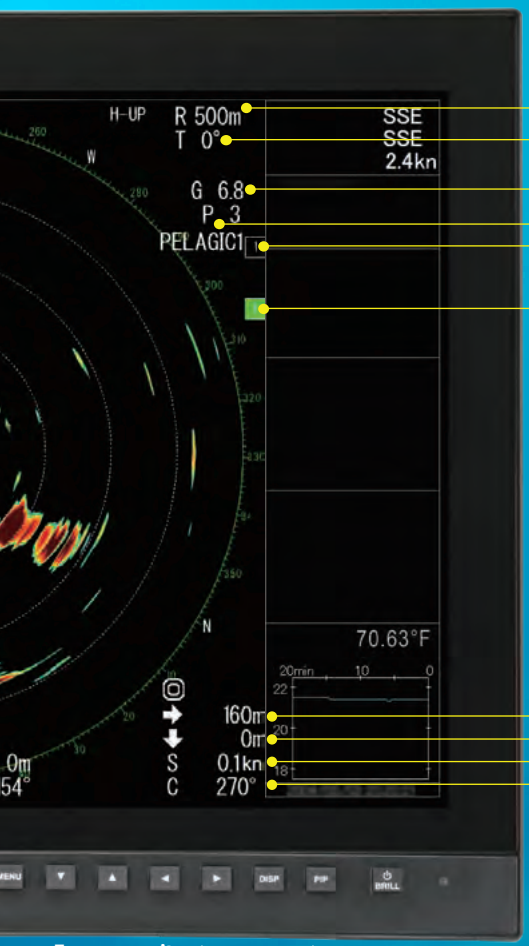






New Beam Stabilization Function

In rough weather, the vessel's motion causes distortion in the display of target images. Furuno's unique beam stabilization technology automatically adjusts the beam to the specified angle, correcting for ship's motion in heavy seas; providing clearer images than ever. Plus it helps you identify schools of fish as well as underwater topography and structure.



Furuno monitor (sold separately)



- **Range**
- **Tilt**
- **Gain**
- **Program No. and Name**
- **Connected Remote Controllers**
  (green = active, black = powered off but connected)

New Target Lock Function

There are two modes for Target Lock*:

- **Position Tracking**
- **School of Fish**

When using Position Tracking mode, you can track a target reef or other area as a fixed position.

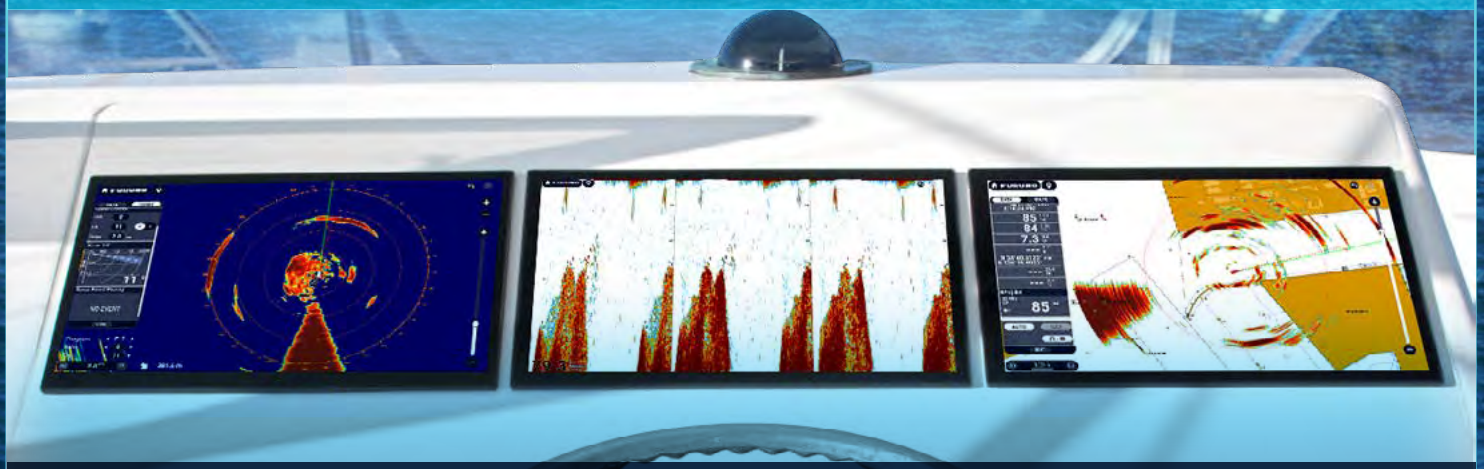
** Heading data and boat speed/course data required.*

Target Lock / Fish School Movement

- **Horizontal distance**
- **Depth**
- **Speed**
- **Bearing**



The Ultimate Sportfishing Helm



Total Control Directly From Your TZtouchXL MFD

Connect the CSH-10 directly to your TZtouchXL MFD* to display the Sonar screen in either a full, half, or quarter display.

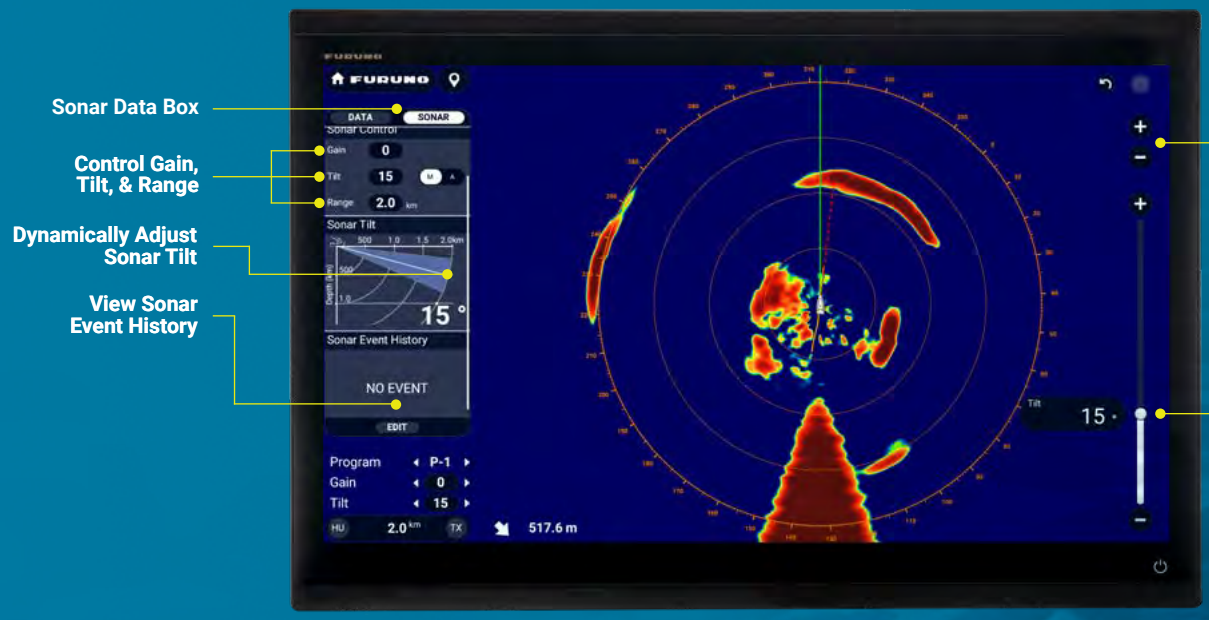
Take things a step further with the world's first Sonar Chart Overlay, allowing you to track game fish as they work the contour lines that you see directly on the BathyVision TZ MAPS.

Connect the CSH-10 through Ethernet network to the: **TZT10X, TZT13X, TZT16X, TZT22X, TZT24X, or TZTBBX**

** Requires software version 25.11 or higher*

Directly from your TZtouchXL MFD*, control:

- **Gain / Tilt / Range**
- **Sonar Event Marking and Historical Event Display**
- **Equipment Settings**

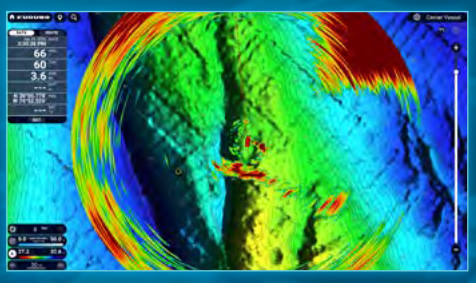


NAVnet TZtouchXL

Control your CSH-10 directly from TZtouchXL with Range Up/Down Buttons & Gain/Tilt Slider Bar.
Edge-Swipe from the left to display the Sonar Data Box to view the Sonar tilt angle & Sonar Event History.



Easily change CSH-10 User Settings, Configuration Settings, and Overlay on your TZtouchXL with a simple Edge-Swipe up.



Overlay Sonar targets on top of your chart to enhance your situational awareness and track game fish as they travel along depth contours.



Create up to 10 custom Programs for different fish species to easily adjust the Sonar for your target species.

GENERAL

Frequency	83.5 kHz Fully digital beamforming

DISPLAY

Display Mode	Single scan, Fish Finder Combination* (single and Fish Finder) *Fish Finder or Echo Sounder required
Video Signal Output	HDMI SXGA Resolution: 1280 x 1024
Colors	Scan/Echo: 32 colors, Mark: 6 color
Mark	Own ship, Bow Line, Direction/Distance, Event, Fish School, Electronic Direction Scale, Wake, Tide Scan (direction, distance), Cursor Position (distance, depth, direction), Ship Speed Event, Target Lock
Additional Features	Water Temp Interference Removal, Residual Image Processing, Noise Limiter, Color Erasure, Auto Tracking, Auto Retraction, Fish School Alarm
Range Scale	50, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 2000 m
Pulselength	0.5 to 20ms (depending on range scale)

INTERFACE

NMEA0183	5 Ports (Version 1.5/2.0/3.0/4.0/4.1)
Video Output	2 Ports HDMI
External KP	2 Ports (one each for input and output)
Audio Output	1 Port, 10W
USB	4 Ports total (2 ea USB 2.0; 2 ea USB 3.0)
LAN	2 Ports, 10/100/1,000 Base-T
Input	CUR, DBS, DBT, DPT, GGA, GNS, HDG, HDM, HDT, MDA, MTW, RMC, VBW*, VDR, VHW, VTG, ZDA Forward/Backward/Left/Right boat speed required
Output	TLL

HULL UNIT

Transducer travel	400mm or 600mm
Raising/Lowering time	400mm: 7s, 600mm: 10s
Allowable Ship's speed	20kn MAX. (raise/lower operation up to 18 kn)
Driving system	Remote electric control

POWER SUPPLY

Transmitting/ Receiving Device	DC 24 V, 7.2 A or less
Processor	DC 12-24 V, 4.0-2.0 A
Upper & Lower Device	DC 24 V, 10 A or less

EQUIPMENT LIST

STANDARD
1. Processor CSH-1003
2. Control Unit SCU-002
3. Transceiver Unit CSH-101
4. Hull Unit 400mm or 600mm travel
5. Installation Materials, Accessories and Spare Parts

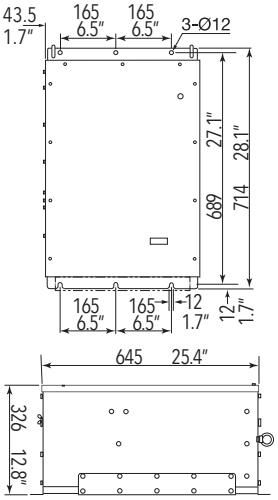
NOTE: Local supply may vary; check with your supplier

OPTIONAL
1. Control Unit SCU-002
2. Wired Controller Unit FSV-854-MK2 (Cable length 5/10m)
3. Wireless Remote Control SCU-001
4. Small Switch Box SCU-003
5. External Speaker SEM-21Q
6. KB Mounting Bracket
7. SSD Assembly
8. AC/DC Power Supply PR-241
9. Interface Unit IF-2550

TRANSCEIVER UNIT

CSH-101

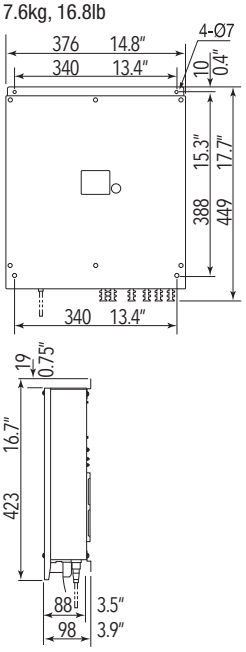
37kg, 81.6lb



PROCESSOR UNIT

CSH-1003

7.6kg, 16.8lb

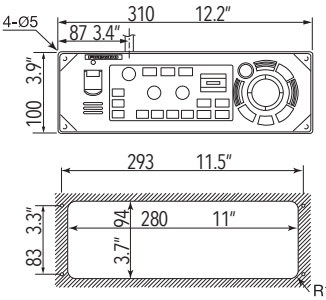


CONTROL UNIT

SCU-002

5m cable 1.2kg, 2.6lb

10m cable 1.7kg, 3.7lb



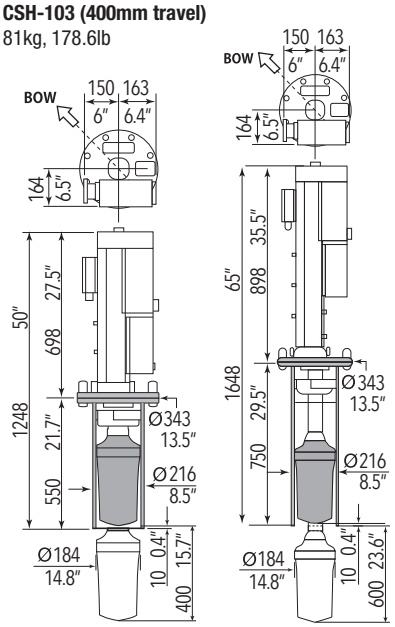
HULL UNIT

CSH-104 (600mm travel)

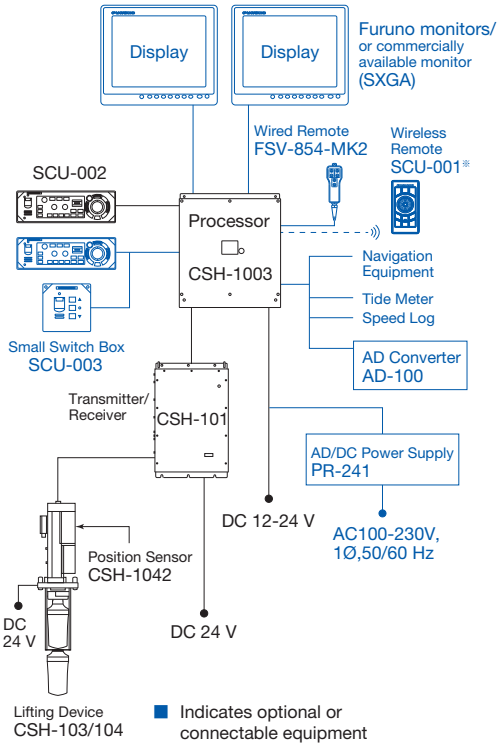
87kg, 191.8lb

CSH-103 (400mm travel)

81kg, 178.6lb



INTERCONNECTION DIAGRAM



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Catalog No. CA000002646

FURUNO ELECTRIC CO., LTD.
www.furuno.com

Find your local contact point

BEWARE OF SIMILAR PRODUCTS
All brand and product names are trademarks, registered trademarks, or service marks for their respective holders.
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE