900/Matrix Series

Model	987c SI Combo	981c SI	947c 3D Combo	937c DF Combo	937c Combo	931c DF	931c
Display Size	7" Diagonal	7" Diagonal	7" Diagonal	7" Diagonal	7" Diagonal	7" Diagonal	7" Diagonal
Display Pixel Matrix	480V x 854H	480V x 854H	480V x 854H	480V x 854H	480V x 854H	480V x 854H	480V x 854H
Display Type	Color TFT	Color TFT	Color TFT	Color TFT	Color TFT	Color TFT	Color TFT
Display Colors/Grayscale	65,000 Color	65,000 Color	65,000 Color	65,000 Color	65,000 Color	65,000 Color	65,000 Color
Sonar	DualBeam PLUS + Side Imaging	DualBeam PLUS + Side Imaging	3D and 2D	DualBeam PLUS	Single Beam	DualBeam PLUS	Single Beam
Sonar Coverage	20°, 74° & (2) 84° @-10db	20°, 74° & (2) 84° @-10db	(6)16° & 60° @-10db	20° & 74° @-10db	20° @-10db	20° & 74° @-10db	20° @-10db
Sonar Frequency	200kHz, 50kHz, 262kHz	200kHz, 50kHz, 262kHz	455kHz, 83kHz	200kHz, 50kHz	200kHz	200kHz, 50kHz	200kHz
Sonar Optional	n/a	n/a	n/a	n/a	DualBeam PLUS	n/a	DualBeam PLUS
Target Separation	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches
Power Output	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	750 Watts (RMS) / 6000 Watts (Peak-to-Peak)	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	750 Watts (RMS) / 6000 Watts (Peak-to-Peak)
Depth Capability	2500 Feet	2500 Feet	1000 Feet	2500 Feet	1000 Feet	2500 Feet	1000 Feet
Temperature	Included	Included	Included	Included	Included	Included	Included
Speed	Included	Included	Included	Included	Included	Included	Capable
Backlight	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unit Case Size	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D	11 ¼" W x 6 ¾" H x 4 ¼" D
Mount	Indash or Gimbal	Indash or Gimbal	Indash or Gimbal	Indash or Gimbal	Indash or Gimbal	Indash or Gimbal	Indash or Gimbal
Transducer Standard	XHS-9-SI-160-T	XHS-9-SI-160-T	SHS-7W	XHS-9-DB-74-T	XHS-9-20-T	XHS-9-DB-74-T	XHS-9-20-T
Transducer Mounting	Transom	Transom	Transom	Transom	Transom	Transom	Transom
Power Input	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC

GPS Features

	987c SI Combo	981c SI	947c 3D Combo	937c DF Combo	937c Combo	931c DF	931c
GPS Receiver	●	○	●	●	●	○	○
GPS Trackplotting	●	○	●	●	●	○	○
GPS Chartplotting	●	—	●	●	●	—	—
Waypoints, Routes, Tracks/Points	3,000, 50, 50/10,000	3,000, 50, 50/10,000	3,000, 50, 50/10,000	3,000, 50, 50/10,000	3,000, 50, 50/10,000	3,000, 50, 50/10,000	3,000, 50, 50/10,000
Humminbird UniMap Built-in	●	—	●	●	●	—	—
Navionics Gold Chart Compatible	○	—	○	○	○	—	—
Navionics HotMaps Compatible	○	—	○	○	○	—	—
Navionics HotMaps Premium Chart Compatible	○	—	○	○	○	—	—
Trolling Grids & Waypoint Targets	●	○	●	●	●	○	○
NMEA Output (0183)	●	●	●	●	●	●	●

Optional Add-Ons

	987c SI Combo	981c SI	947c 3D Combo	937c DF Combo	937c Combo	931c DF	931c
GPS Ready	●	○	●	●	●	○	○
WeatherSense Compatible	○	○	○	○	○	○	○
Wireless Sonar Link Compatible	○	○	○	○	○	○	○
HumminbirdPC Compatible	○	○	○	○	○	○	○
Upgradeable Internal Software	○	○	○	○	○	○	○

User Features:

	987c SI Combo	981c SI	947c 3D Combo	937c DF Combo	937c Combo	931c DF	931c
Split Screen Zoom	●	●	●	●	●	●	●
Split Screen Bottom Lock	●	●	●	●	●	●	●
3D Chart View	●	—	●	●	●	—	—
Large Digits View	●	●	●	●	●	●	●
Wide/Narrow Cone Split Screen	●	●	—	●	—	●	—
Custom View Selections	●	●	●	●	●	●	●
Custom Digital Readout Selection	●	●	●	●	●	●	●
View Preset Keys	●	●	●	●	●	●	●
Temperature Graph	●	●	●	●	●	●	●
Temperature Alarm	●	●	●	●	●	●	●
TruArch Technology	●	●	—	●	●	●	●
Freeze Frame	●	●	●	●	●	●	●
Instant Image Update	●	●	●	●	●	●	●
Mark Structure on Sonar	●	○	●	●	●	○	○
Selective Fish ID+	●	●	●	●	●	●	●
Real Time Sonar	●	●	●	●	●	●	●
Sonar Echo Enhancement	●	●	●	●	●	●	●
Triplog	●	●	●	●	●	●	○
X-Press Menu System	●	●	●	●	●	●	●

Model	Matrix 97 Combo	Matrix 87c Combo	Matrix 77c	Matrix 67 Combo	Matrix 47 3D	Matrix 37	Matrix 27	Matrix 17	Matrix 12
Display Size	5.6" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal	5" Diagonal
Display Pixel Matrix	240V x 320H	320V x 240H	320V x 240H	640V x 320H	640V x 320H	640V x 320H	640V x 320H	320V x 320H	240V x 240H
Display Type	Color TFT	Color TFT	Color TFT	FSTN LCD	FSTN LCD	FSTN LCD	FSTN LCD	FSTN LCD	FSTN LCD
Display Colors/Grayscale	256 Colors	256 Colors	256 Colors	12 Level Grayscale	12 Level Grayscale	12 Level Grayscale	12 Level Grayscale	12 Level Grayscale	12 Level Grayscale
Sonar	DualBeam PLUS	DualBeam PLUS	DualBeam PLUS	DualBeam PLUS	3D & 2D	Quadrabeam	DualBeam PLUS	DualBeam PLUS	Single Beam
Sonar Coverage	20° & 60° @-10db	20° & 60° @-10db	20° & 60° @-10db	20° & 60° @-10db	(6) 16° & 60° @-10db	20°, 60° & (2) 45°@-10db	20° & 60° @-10db	20° & 60° @-10db	20° @-10db
Sonar Frequency	200kHz & 83kHz	200kHz & 83kHz	200kHz & 83kHz	200kHz & 83kHz	455kHz & 83kHz	200kHz & 83kHz & 455kHz	200kHz & 83kHz	200kHz & 83kHz	200kHz
Sonar Optional	Quad/Wide Side	Quad/Wide Side	n/a	Quad/Wide Side	n/a	Wide Side	n/a	n/a	n/a
Target Separation	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches	2 ½ Inches
Power Output	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	1000 Watts (RMS) / 8000 Watts (Peak-to-Peak)	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	500 Watts (RMS) / 4000 Watts (Peak-to-Peak)	300 Watts (RMS) / 2400 Watts (Peak-to-Peak)	250 Watts (RMS) / 2000 Watts (Peak-to-Peak)
Depth Capability	1500 Feet	1500 Feet	1500 Feet	1500 Feet	1000 Feet	1500 Feet	1500 Feet	1000 Feet	800 Feet
Temperature	Included	Included	Included	Included	Included	Included	Included	Included	Included
Speed	Included	Included	Included	Included	Included	Capable	Capable	Capable	Capable
Backlight	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Waterproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unit Case Size	7 ½" H x 9 ¼" W x 3 ½" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D	7" H x 7 ¼" W x 4" D
Mount	Indash or Gimbal	Quick Disconnect	Quick Disconnect	Quick Disconnect	Quick Disconnect	Quick Disconnect	Quick Disconnect	Quick Disconnect	Quick Disconnect
Transducer Standard	XHS-9-20-T	XHS-9-20-T	XHS-9-20-T	XHS-9-20-T	SHS-7W	XT-6-TB-90-T	XHS-9-20-T	XHS-9-20-T	XHS-9-20-T
Transducer Mounting	Inside Hull or Transom	Inside Hull or Transom	Inside Hull or Transom	Inside Hull or Transom	Transom	Inside Hull or Transom	Inside Hull or Transom	Inside Hull or Transom	Inside Hull or Transom
Power Input	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC	10-20 VDC

GPS Features

	Matrix 97 Combo	Matrix 87c Combo	Matrix 77c	Matrix 67 Combo	Matrix 47 3D	Matrix 37	Matrix 27	Matrix 17	Matrix 12
GPS Receiver	●	●	○	●	○	○	○	○	○
GPS Trackplotting	●	●	○	●	○	○	○	○	○
GPS Chartplotting	●	●	—	●	—	—	—	—	—
Waypoints, Routes, Tracks/Points	750, 20, 10/2,000	750, 20, 10/2,000	750, 0, 10/2,000	750, 20, 10/2,000	750, 0, 10/2,000	750, 0, 10/2,000	750, 0, 10/2,000	750, 0, 10/2,000	750, 0, 10/2,000
Humminbird UniMap Built-in	●	●	—	●	—	—	—	—	—
Navionics Gold Chart Compatible	○	○	—	○	—	—	—	—	—
Navionics HotMaps Compatible	○	○	—	○	—	—	—	—	—
Navionics HotMaps Premium Chart Compatible	—	○	—	—	—	—	—	—	—
Trolling Grids & Waypoint Targets	●	●	○	●	○	○	○	○	○
NMEA Output (0183)	●	●	●	●	●	●	●	●	●

Optional Add-Ons

	Matrix 97 Combo	Matrix 87c Combo	Matrix 77c	Matrix 67 Combo	Matrix 47 3D	Matrix 37	Matrix 27	Matrix 17	Matrix 12
GPS Ready	●	●	○	●	○	○	○	○	○
WeatherSense Compatible	○	○	○	○	○	○	○	○	○
Wireless Sonar Link Compatible	○	○	○	○	○	○	○	○	○
HumminbirdPC Compatible	○	○	○	○	○	○	○	○	○
Upgradeable Internal Software	○	○	○	○	○	○	○	○	○

User Features:

	Matrix 97 Combo	Matrix 87c Combo	Matrix 77c	Matrix 67 Combo	Matrix 47 3D	Matrix 37	Matrix 27	Matrix 17	Matrix 12
Split Screen Zoom	●	●	●	●	●	●	●	●	●
Split Screen Bottom Lock	—	—	—	—	—	—	—	—	—
3D Chart View	●	●	—	●	—	—	—	—	—
Large Digits View	●	●	●	●	●	●	●	●	●
Wide/Narrow Cone Split Screen	●	●	●	●	—	●	●	●	—
Custom View Selections	●	●	●	●	●	●	●	●	●
Custom Digital Readout Selection	●	●	●	●	●	●	●	●	●
View Preset Keys	●	—	—	—	—	—	—	—	—
Temperature Graph	—	—	—	—	—	—	—	—	—
Temperature Alarm	—	—	—	—	—	—	—	—	—
TruArch Technology	●	●	●	●	—	●	●	●	—
Freeze Frame	●	●	●	●	●	●	●	●	●
Instant Image Update	●	●	●	●	●	●	●	●	●
Mark Structure on Sonar	●	●	○	●	○	○	●	○	○
Selective Fish ID+	●	●	●	●	●	●	●	●	●
Real Time Sonar	●	●	●	●	●	●	●	●	●
Sonar Echo Enhancement	●	●	●	●	●	●	●	●	●
Triplog	●	●	●	●	●	○	○	○	○
X-Press Menu System	●	●	●	●	●	●	●	●	●