

AIR BAND TRANSCEIVERS

PRODUCT
CATALOG

FTA-750L

Spirit GPS

- ILS Navigation
(Localizer & Glide Slope)
- VOR Navigation
- Integrated 66 ch
GPS Receiver
- 1.7" x 1.7" Full-Dot
Matrix Display
- 800 mW Loud Audio



FTA-550L FTA-550

AA Battery Version

Pro-X

- ILS Navigation
(Localizer)
- VOR Navigation
- 1.7" x 1.7" Full-Dot
Matrix Display
- 800 mW Loud Audio



FTA-450L

- 1.7" x 1.7" Full-Dot
Matrix Display
- 800 mW Loud Audio
- 200 Memory Channels
- PC Programmable



FTA-250L

- Ultra Compact
- Rugged Construction
Certified to MIL-STD -810F
- 700 mW Loud Audio
- Noise Canceling Feature
- 250 Memory Channels



MIL-STD-810F

Professional Grade Yaesu's legendary rugged construction and



FTA-750L

Spirit VOR Navigation
ILS Navigation
GPS

Supplied accessories:

• Li-Ion Battery Pack • Charger Cradle • AC Charger
• Cigarette Lighter DC/DC Converter • Antenna • Belt Clip
• Headset Adapter Cable • Alkaline Battery Tray • USB Cable

Enhanced Performance Equipped ILS (Localizer & Glide Slope), VOR Navigation and Integrated GPS receiver

Features

- 5 Watts TX Output Power (Air Band: AM 5W P.E.P. typ, 1.5W carrier)
- Huge 1.7" x 1.7" (43.2 x 43.2 mm) Full-Dot Matrix Display (160 x 160 dots)
- ILS Navigation Display (Localizer and Glide Slope)
- VOR Navigation Display
- Integrated 66 Channel WAAS GPS receiver
- Waypoint Navigation
- Available GPS Position Logging operation^{*1}
- 8.33 kHz Narrow Band compatible
- NOAA Weather Channel Receive^{*2}
- NOAA Weather Alert^{*2}
- 200 Memory Channels with 15 alphanumeric characters
- Back-lit Keypad and Display with Dimmer
- Water Protection – IPX5 Rating
- Loud Audio (800 mW)
- Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.4 V 1800 mAh)
- Includes Alkaline Battery Tray (6 x AA)
- External-DC input for operation and charging
- PC Programmable (Included USB Cable)

^{*1} The YCE01 PC Programming Software (available online) is required to view the GPS Log data.

ILS NAVIGATION (Localizer & Glide Slope)

Course deviation based on the received localizer signal and height deviation based on the received glide slope signal can be easily recognized on the CDI display. Superior visibility supports the landing approach under bad weather conditions.



Course deviation needle for localizer

Height deviation indicator for glide slope

WAYPOINT NAVIGATION

The navigation feature of the FTA-750 is presented as a compass that helps you to determine the destination and your bearing at a glance.



Course indicator

Destination indicator

VOR NAVIGATION

When the FTA-750 receives a VOR signal, the display will automatically switch to the NAV band screen which shows a CDI based on the received signal. The SOG (speed over ground) is displayed only when the internal GPS unit is activated and receives a fix in the FTA-750.



Course indicator (OBS direction)

Course deviation needle

SOG (speed over ground)



FTA-550L

Pro-X VOR Navigation
ILS Navigation
(Localizer)

Supplied accessories:

• Li-Ion Battery Pack • Charger Cradle • AC Charger
• Cigarette Lighter DC/DC Converter • Antenna • Belt Clip
• Headset Adapter Cable • Alkaline Battery Tray • USB Cable

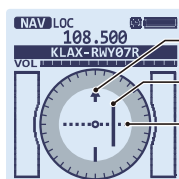
Professional Specifications Advanced Operation with ILS (Localizer), VOR Navigation

Features

- 5 Watts TX Output Power (Air Band: AM 5W P.E.P. typ, 1.5W carrier)
- Huge 1.7" x 1.7" (43.2 x 43.2 mm) Full-Dot Matrix Display (160 x 160 dots)
- ILS Navigation Display (Localizer)
- VOR Navigation Display
- 8.33 kHz Narrow Band compatible
- NOAA Weather Channel Receive^{*2}
- NOAA Weather Alert^{*2}
- 200 Memory Channels with 15 alphanumeric characters
- Back-lit Keypad and Display with Dimmer
- Water Protection – IPX5 Rating
- Loud Audio (800 mW)
- Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.4 V 1800 mAh)
- Includes Alkaline Battery Tray (6 x AA)
- External-DC input for operation and charging
- PC Programmable (Included USB Cable)

ILS NAVIGATION (Localizer)

Course deviation based on the received localizer signal can be easily recognized on the CDI display. Superior visibility supports the landing approach under bad weather conditions.



Course (runway) indicator

Course deviation needle for localizer

Deviation marks for localizer

VOR NAVIGATION

When the FTA-550 receives a VOR signal, the display will automatically switch to the NAV band screen which shows a CDI based on the received signal.



Course indicator (OBS direction)

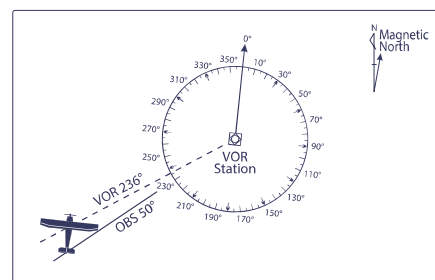
Course deviation needle

FTA-550

AA Battery Version

Supplied accessories:

• Cigarette Lighter DC/DC Converter
• Antenna • Belt Clip • Headset Adapter Cable
• Alkaline Battery Tray • USB Cable



sleek styling



FTA-450L

Supplied accessories:

• Li-Ion Battery Pack • Charger Cradle • AC Charger
• Cigarette Lighter DC/DC Converter • Antenna
• Belt Clip • Headset Adapter Cable • Alkaline
Battery Tray • USB Cable

Advanced User Interface

*Oversize 1.7" x 1.7" Full-Dot Matrix Display
ensuring intuitive operation*

Features

- 5 Watts TX Output Power (Air Band: AM 5 W, P.E.P. typ, 1.5 W carrier)
- Huge 1.7" x 1.7" (43.2 x 43.2 mm) Full-Dot Matrix Display (160 x 160 dots)
- Loud Audio (800 mW)
- 8.33 kHz Narrow Band compatible
- 200 Memory Channels with 15 alphanumeric characters
- Water Protection – IPX5 Rating
- Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.4 V 1800 mAh)
- External-DC input for operation and charging
- Includes Alkaline Battery Tray (6 x AA)
- NOAA Weather Channel Receive*²
- NOAA Weather Alert*²
- Back-lit Keypad and Display with Dimmer
- PC Programmable (Included USB Cable)

Ultra Compact and Rugged Construction

MIL-STD-810F

*700 mW Loud Audio and Noise-Canceling
Feature built into a Compact case*



FTA-250L

Supplied accessories:

• Li-Ion Battery Pack • Charger Cradle • AC Adapter
• Cigarette Lighter DC/DC Converter • Antenna
• Belt Clip • Headset Adapter Cable

Features

- 5 Watts TX Output Power (Air Band: AM 5 W, P.E.P. 1.5 W carrier)
- Compact Design, Measuring W2.1" x H4.1" x D1.2" (52 x 105 x 30 mm)
- Rugged Construction: Certified to MIL-STD -810F
- Loud Audio (700 mW)
- Noise-canceling function for both transmit and receive audio
- 8.33 kHz Narrow Band compatible
- 250 Memory Channels
- Includes High-Capacity Rechargeable Li-Ion Battery Pack (7.4 V 1950 mAh)
- External-DC input for operation and charging
- AF Pitch Control
- Flip Flop Last Channel Recall
- Dual Watch
- NOAA Weather Channel Receive*²
- NOAA Weather Alert*²
- Back-lit Keypad and Display with Dimmer
- PC Programmable (Requires Optional USB Cable :SCU-37)

*² Only available in NOAA weather service areas.

Specifications	FTA-750L <i>Spirit</i>	FTA-550L/ FTA-550 AA Battery Version <i>Pro-X</i>	FTA-450L	FTA-250L
General				
Frequency Range	TX: 118.000 to 136.975 MHz RX: 108.000 to 136.975 MHz (NAV and COM) 161.650 to 163.275 MHz (Weather Channels: US only) 329.150 to 335.000 MHz (Glide Slope)	TX: 118.000 to 136.975 MHz RX: 108.000 to 136.975 MHz (NAV and COM) 161.650 to 163.275 MHz (Weather Channels: US only)	TX: 118.000 to 136.975 MHz RX: 108.000 to 136.975 MHz 161.650 to 163.275 MHz (Weather Channels: US only)	TX: 118.000 to 136.975 MHz RX: 108.000 to 136.975 MHz 161.650 to 163.275 MHz (Weather Channels: US only)
Channel Spacing	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz	25 kHz/8.33 kHz
Emission Type	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)	TX: AM RX: AM & FM (FM: for receiving the Weather Channels)
Supply Voltage	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC	6.0 to 9.5 VDC
Current Consumption (approx.)	300 µA (power off) 80 mA (battery saver on, saver ratio 50 %, GPS on) 110 mA (squellch on, GPS on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squellch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 60 mA (battery saver on, saver ratio 50 %) 80 mA (squellch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)	300 µA (power off) 70 mA (battery saver on, saver ratio 50 %) 90 mA (squellch on) 300 mA (receive) 0.9 A (transmit 1.5 W Carrier)
Temperature Range	+14 °F to +140 °F (-10 °C to +60 °C)	+14 °F to +140 °F (-10 °C to +60 °C)	+14 °F to +140 °F (-10 °C to +60 °C)	+14 °F to +140 °F (-10 °C to +60 °C)
Antenna Connector	BNC Type	BNC Type	BNC Type	BNC Type
Case Size (WxHxD)	2.4" x 5.2" x 1.3" (62 x 133 x 34 mm) with SBR-12LI	2.4" x 5.2" x 1.3" (62 x 133 x 34 mm) with SBR-12LI	2.4" x 5.2" x 1.3" (62 x 133 x 34 mm) with SBR-12LI	2.1" x 4.1" x 1.2" (52 x 105 x 30 mm) with SBR-25LI
Weight (approx.)	14.5 oz (410 g) with SBR-12LI, antenna and belt clip	14.5 oz (410 g) with SBR-12LI, antenna and belt clip	14.5 oz (410 g) with SBR-12LI, antenna and belt clip	10.6 oz (300 g) with SBR-25LI, antenna and belt clip
Receiver				
Circuit Type	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne	Double-conversion superheterodyne
IFs	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz	47.25 MHz & 450 kHz
Sensitivity	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)	Better than 0.8 µV (for 6 dB S/N with 1 kHz, 30 % modulation)
Selectivity	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB	Better than 8 kHz/-6 dB
Adjacent CH. Selectivity	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB	Less than 25 kHz/-60 dB
AF Output (Internal speaker)	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.8 W @ 16 Ohms, 10 % THD	0.7 W @ 16 Ohms, 10 % THD
Transmitter				
Power Output	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)	5.0 W (PEP), 1.5 W (Carrier Power)
Frequency Stability	Better than ±1 ppm (+14 °F to +140 °F [-10 °C to +60 °C])	Better than ±1 ppm (+14 °F to +140 °F [-10 °C to +60 °C])	Better than ±1 ppm (+14 °F to +140 °F [-10 °C to +60 °C])	Better than ±1 ppm (+14 °F to +140 °F [-10 °C to +60 °C])
Modulation System	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation	Low Level Amplitude Modulation
Spurious Emission	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier	> 70 dB below carrier
Int. Microphone Type	Condenser	Condenser	Condenser	Condenser
Ext Mic. Impedance	150 Ohms	150 Ohms	150 Ohms	150 Ohms

GPS Unit(FTA-750L)

Receiver Channels	66 Channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 minute typical (@ Cold Start) 5 seconds typical (@ Hot Start)
Geodetic Datum	WGS84

Applicable MIL-STD (FTA-250L)

Standard: MIL-STD-810F			
MIL Standard	Method / Procedures	MIL Standard	Method / Procedures
Low Pressure	500.4 / I, II	Humidity	507.4
High Temperature	501.4 / I, II	Salt Fog	509.4
Low Temperature	502.4 / I, II	Dust Blowing	510.4 / I
Temperature Shock	503.4 / I	Vibration	514.5 / I
Solar Radiation	505.4 / I	Shock	516.5 / I, IV
Rain Blowing/Drip	506.4 / I, III	—	—

Specifications are subject to change without notice or obligation.

About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized YAESU Dealer for complete details.

ACCESSORIES & OPTIONS

	 SSM-10A Speaker Microphone	 SEP-10A*1 Earphone for SSM-10A	 SEP-11A Earphone	 SBR-12LI Li-Ion Battery Pack (7.4 V, 1,800 mAh)	 SBR-25LI Li-Ion Battery Pack (7.4 V, 1,950 mAh)	 SBR-26LI Li-Ion Battery Pack (7.4 V, 2,500 mAh)	 SBH-11 Charger Cradle	 SAD-11B/C/U*2 AC Charger	 SBH-22 Charger Cradle	 SAD-20B/C/U*2 AC Adapter for SBH-22
FTA-750L	●	●	●	●			●	●		
FTA-550/L	●	●	●	●			●	●		
FTA-450L	●	●	●	●			●	●		
FTA-250L	●	●	●		●	●			●	●
	 SDD-12 Cigarette Lighter DC/DC Converter	 SRA-13A Helical Antenna	 SRA-18A Helical Antenna	 SHB-11 Belt Clip	 SHB-18 Belt Clip	 SCH-11 Belt Clip Hanger	 SCU-15 Headset Adapter Cables	 SBT-12 Alkaline Battery Tray	 T9101606 USB Cable	 SCU-37 USB Programming Cable
FTA-750L	●	●		●		●	●	●	●	
FTA-550/L	●	●		●		●	●	●	●	
FTA-450L	●	●		●		●	●	●	●	
FTA-250L	●		●		●		●			●

*1 Requires SSM-10A *2 "B" for 120 VAC/ "C" for 220-240 VAC/ "U" for 220-240 VAC w/BF plug

YAESU

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