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This presentation does show web pages from various companies including the listed prices for equipment we are recommending. This is not meant to endorse the company, but to give you an approximation of the price you can expect pay for the given item.

To qualify for this list items had to:

Currently be in production and available for purchase
 We will not recommend any equipment that is no longer manufactured

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Approved by
Bryan Leavitt WOBCL
James Nelson WOJRN

Review HT's at 3 different levels

- Basic
- Intermediate
- > Advanced

LARC Recommended 2 Meter / 70 Centimeter Radios and Auxiliary Equipment **Review HT's at 3 different levels** Basic Intermediate Advanced **Review Base/Mobile units at 4 different levels** Single band Basic > Intermediate > Advanced

LARC Recommended 2 Meter / 70 Centimeter Radios and Auxiliary Equipment **Review HT's at 3 different levels** Basic Intermediate Advanced **Review Base/Mobile units at 4 different levels** Single band Basic > Intermediate > Advanced **Briefly look at recommended** Antennas and mount Coax Surge suppression **Power Supply**

Features

Dual Band

Able to transmit/receive in both 2 m and 70 cm bands

Features

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Dual Receive

Simultaneous receive on two different frequencies

✤ V/V, V/U, U/V, U/U

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- APRS

Automatic Packet Reporting System

Transmits/Receives current position and other information

Requires GPS

144.39 mHz in North America

Features

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- APRS

Automatic Packet Reporting System

Transmits/Receives current position and other information

Requires GPS

144.39 mHz in North America

- Cross Band Repeat
 - Allows the unit to be used as temporary repeater
 - Input/Output are usually on separate bands

Analog

Supported by all manufacturers and virtually all radios

Wide (25 kHz) and narrow FM (12.5) kHz)

MODES

- Analog
 - Supported by all manufacturers and virtually all radios
 - Wide (25 kHz) and narrow FM (12.5) kHz)
 - **D-Star** (Digital Smart Technologies for Amateur Radio)
 - Developed in Japan
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MODES

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- **C4FM** (Continuous Four Level Frequency Modulation)
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- **DMR** (Digital Mobile Radio)
 - Amateur and commercial standard
 - Supported by multiple manufacturers
 - \rightarrow Recommended beginning digital mode for amateur use

HT's

- All models are dual band
- All models support analog mode

HT's

- All models are dual band
- All models support analog mode

Recommended basic model

HT's

- All models are dual band
- All models support analog mode
 - **Recommended basic model**
 - Yaesu FT-65R
 - 5/2.5/0.5 watts
 - IP54 (water resistant)
 - FM broadcast receive
 - Weather channels with alert



The FT-65R is very compact and light, yet ruggedly constructed. Three selectable output power settings. The Big Front Speaker provides a full 1 Watt of powerful very crisp and clear audio output in keeping with YAESU uncompromising pursuit of audio quality.

The supplied 1950 mAh Li-ion battery pack is capable of over nine hours operation while an optional higher capacity 2500mAh Li-ion battery pack provides ofer 11.5 hours of expanded operating time for those needing even more operating time between recharges.

Supplied Accessories

- Antenna
- 7.4V 1950mAh Li-ion Battery Pack(SBR-25LI)
- Rapid Charger(SBH-22)
- AC Adapter(SAD-20B)
- Belt Clip(SBH-18)
- Operating Manual and Warranty Card

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HT's Basic model runner up

HT's

- Basic model runner up
 - BaoFeng BF-F8HP
 - 8/4/1 watts
 - FM broadcast receive
 - Be careful! Capable of transmitting outside of Ham bands











*** * * 21 customer reviews | Add a review

\$64.89

BaoFeng BF-F8HP (UV-5R 3rd Gen) 8-Watt Dual Band Two-Way Radio (136-174MHz VHF & 400-520MHz UHF) Includes Full Kit with Large Battery

<)>

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CATEGORY: HANDHELD



- Recommended Intermediate
 - BTECH DMR-6X2
 - Includes 2 batteries and programming cable
 - DMR tier 1 and tier 2
 - VHF 7/5/2.5/1 watts UHF 6/5/2.5/1 watts
 - Be careful! Capable of transmitting outside of Ham bands



BTECH DMR-6X2 DMR Digital

** * * * 15 customer reviews | Add a review

\$209.89

BTECH DMR-6X2 (DMR and Analog) 7-Watt Dual Band Two-Way Radio (136-174MHz VHF & 400-480MHz UHF), with GPS and Recording, Includes Full Kit with 2 Batteries, Programming Cable, and More

CATEGORY: HANDHELD



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- Recommended Advanced
 - Anytone AT-D878UVII-Plus
 - APRS/GPS
 - DMR tier 1 and tier 2
 - 6/4/2.5/1 Watts
 - Bluetooth
 - FCC part 90 certified
 - Be careful! Capable of transmitting outside of Ham bands

🗊 In-Stock

Anytone AT-D878UVII-Plus

Dual-Band Digital DMR Handheld GPS, APRS RX/TX and Bluetooth

HRO Discount Price: \$314.99*



🎔 Tweet 🕜 Share 🔞 Save 📅 Add To Wish List

Current Stock Status At These Ham Radio Outlet Locations

Free Shipping!



AT-D878UVII-Plus Description Hide

Anytone AT-D878UVII Plus Digital DMR Dual-band Handheld Commercial Radio with GPS, APRS RX/TX and Bluetooth

VHF/UHF Dual-band Digital/Analog Part 90 DMR commercial transceiver with 1.77 inch color TFT display Bluetooth and GPS. New AT-D878UVII PLUS model with green colored top button, includes DMR Roaming, larger memory for future enhancements and storage up to 500,000 contacts. Ideal for Fire, Search & Rescue, EMS, Police, Sheriff, Forestry and Security operations. Frequency coverage 140-174 / 400-480 MHz. Includes USB Programming cable and Bluetooth PTT button.

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Base/Mobile Stations

- All models support analog mode
 - Single band models not recommended but budget friendly
 - Yaesu FTM-3100R
 - 65 watts
 - Includes programming cable and mounting bracket
 - Auto power off
 - 3 year warranty



Manufacturer:	Model:	Price:	\ \
Yaesu	FTM-3100R	\$159.95	BUY

The new FTM-3100R is a VHF conventional FM mobile transceiver. Features include a ruggedly built yet compact transceiver, 65 watts of output power, 3W front panel speaker, expanded receiver coverage from 136-174MHz, 220 memory channels with 8 Alpha-numeric Tags, Automatic Repeater Shift(ARS), Automatic Power-Off(APO) and many more features....

Supplied Accessories

- MH-48A6JA DTMF Microphone
- USB Cable
- Mounting Bracket
- DC Power Cord w/Fuse
- Operating Manual, Safety Guide, and Warranty Card

2M 65W FM Mobile

- Power: 65W RF output
- AMS(Automatic Mode Select)
- Front Panel Speaker
- 220 Memory Channels
- Expanded Receiver Coverage:
- 136 174 MHz
- Warranty: 3 Years

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Base/Mobile Stations

All models support analog mode

Single band models not recommended but budget friendly

- Yaesu FT-2980R
 - 80 watts
 - Includes mounting bracket
 - Weather channels with alert
 - 3 watt audio output
 - 3 year warranty

YAESU FT-2980R

144 MHz 80 Watt FM Mobile Transceiver - 3 Watts of RX Audio - With MH-48A6JA DTMF Microphone

HRO Discount Price: \$179.95*





Current Stock Status At These Ham Radio Outlet Locations

46520

💭 Free Shipping!

😭 In-Stock

🗸 Anaheim, CA	🛃 Atlanta, GA	Denver, CO	Milwaukee, WI	New Castle, DE	Phoenix, AZ
Plano, TX	Portland, OR	Sacramento, CA	Salem, NH	San Diego, CA	Winter Springs, F
Woodbridge, VA					
-T-2980R De	scription Hide				

We are pleased to announce Yaesu's powerful VHF Mono Band FM Analog Mobile Transceiver - The FT-2980R.

As its model name suggests, the FT-2980R arrives with the solid feature configuration and mechanical toughness of the ever popular FT-2900R - with a superior output power that is upgraded to 80 Watts !!

With the new FT-2980R, four output power settings - 80W, 30W, 10W and 5W – are selectable, allowing each user to choose the power they want for their operating style and situations. A Massive Heatsink guarantees a solid 80 Watts of RF Power with no cooling fan needed. Thanks to a loud 3 Watts of audio output, the operator can enjoy reception - even in noisy environments.

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LARC Recommended 2 Meter / 70 Centimeter Radios and Auxiliary Equipment Base/Mobile Stations All models support analog mode

Recommended dual band basic model

Base/Mobile Stations

All models support analog mode

Recommended dual band basic model
 NONE
 Suggestions?

Base/Mobile Stations

- All models support analog mode
 - Recommended dual band intermediate model Icom IC-2730A
 - Detachable face plate
 - V/V U/U simultaneous receive
 - Optional Bluetooth
 - 50/15/5 watts



BUY Share 2 people like this. Sign Up to see what your friends like. Like

Practical Dual Bander with Optional Bluetooth. This new mobile it ideal for the ham enthusiast searching for a high performing radio with classic 2M/440 analog operation.

Supplied Accessories:

- Hand Microphone(HM-207)
- DC Power Cord
- Contoller Cable
- Microphone hanger
- Spare Fuses

Copyright LARC 09/2022
Base/Mobile Stations

>

- All models support analog mode
 - **Recommended dual band intermediate model**
 - Yaesu FTM-6000R
 - Detachable face plate
 - Includes control and programming cables
 - Aircraft band
 - Optional Bluetooth
 - 50/25/5 watts



YAESU FTM-6000R

50W 144/430MHz Dual Band FM Mobile Transceiver

HRO Discount Price: \$319.95*



*After Coupons & Promotions.

Tweet	G Share	Save	🛱 Add To Wish List
		C Salte	

Current Stock Status At These Ham Radio Outlet Locations

. Free Shipping!

Anaheim, CA	🖌 Atlanta, GA	Denver, CO	Milwaukee, WI	New Castle, DE	Phoenix, AZ
Plano, TX	Portland, OR	Sacramento, CA	Salem, NH	San Diego, CA	Winter Springs, FL
Woodbridge, VA					
FTM-6000R [Description	ida			

Introducing the new Yaesu FTM-6000R Dual Band VHF/UHF 50W Mobile/*Base Transceiver.

*Can be used as a Base Transceiver with an appropriate power supply

The Yaesu FTM-6000R is a feature packed mobile transceiver employing a all new User Operating Interface - E2O-III (Easy to Operate - III).

Delivering a reliable and stable 50W of output power performance. Heavy-duty heat sinks equipped with FACC (Funnel Air-Convection Conductor) keep the radio cool under the harshest of conditions.

The 3W speaker delivers clear and crisp receive audio which has been specifically tuned for radio communication.

The detachable front panel of the FTM-6000R can be mounted at the most convenient operating position.

The FTM-6000R also supports optional Bluetooth wireless operation using the optional **SSM-BT10* Headset** or a **Commercially Available Bluetooth Headset***. Copyright LARC 09/2022

LARC Recommended 2 Meter / 70 Centimeter Radios and Auxiliary Equipment Base/Mobile Stations All models support analog mode

Recommended tri band advanced model

Base/Mobile Stations

- All models support analog mode
- Recommended tri band advanced model
 - AnyTone AT-D578UVIII Plus
 - 10 watts 220 mHz, 50 watts 146 mHz, 45 watt 450 mHz
 - Aircraft band, Bluetooth, APRS, GPS, DMR tier 1 & 2
 - Cross-band repeat
 - 136-174, 220-225, 400-520 RX/TX
 - FCC part 90 certified
 - Be careful! Capable of transmitting outside of Ham bands

AnyTone AT-D578UV Tri-Band Mobile Anytone Avg. of 4 Customer Ratings



AT-D578UVIII PRO

Manufacturer's Suggest Retail Price \$399.00

Tri-Band / GPS / APRS / Bluetooth FCC Part 90 Certified

AT-D578UVIII PLUS

Manufacturer's Suggest Retail Price \$459.00

Tri-Band / GPS / APRS / Bluetooth Aircraft Band Receive FCC Part 90 Certified

Recommended HT Antenna

- Nagoya 771
 - Watch for fakes
 - Make sure the base matches
 - About \$18.00



Recommended Base Antenna

- Diamond X50A
 - 200 watt power limit
 - Dual band
 - ✤ 4.5 dBi gain 2 m, 7.2 dBi gain 70 cm

Diamond Antenna X50A Dual-Band Base/Repeater Antennas X50A

*** * * * * *** (41)

Part Number: DMN-X50A





Diamond Antenna X50A Dual-Band Base/Repeater Antennas >

Antenna, Vertical, Dual-Band Base/Repeater, Fiberglass, 2m/70cm, 200W, UHF Female/SO-239, 5.6 ft. Height, Each See More Specifications

In Stock (more than 10 available)

Estimated Ship Date: Today Would you rather pick it up? Select Location



1 0

Oversize \$9.99

Add To Cart

🖤 Wish List 🛛 🕂 Compare

PayPal CREDIT Pay over 12 months at 0% APR. Min purchase required.



DX Engineering Super Card View Details | See if you Prequalify







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Recommended Mobile Antenna

- Comet B-10 NMO
 - 50 watt power limit
 - Dual band

Clears garage door when mounted on roof of vehicle

Comet Mobile VHF/UHF Vertical Antennas B-10NMO

A Part Nur









\$42.99

Comet Mobile VHF/UHF Vertical Antennas >

Antenna, Mobile, Vertical, Black, NMO Mount, 2m, 70cm, Whip and Spring, 50 W, 12 in., Each See More Specifications

In Stock (more than 10 available)

Estimated Ship Date: Today Would you rather pick it up? Select Location

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Add To Cart

💛 Wish List 🛛 🛨 Compare

PayPal CREDIT Pay over 12 months at 0% APR. Min purchase required.



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Recommended Mobile Antenna Mount

- NMO
 - Strongest mount
 - Very widely used in amateur and commercial applications
 - Waterproof when installed correctly

Comet CK-3NMO Deluxe Mobile Mount Cable Assemblies CK-3NMO



Part Number: CMA-CK-3NMO







\$42.99

Comet CK-3NMO Deluxe Mobile Mount Cable Assemblies

Cable Assembly, NMO Base, 16.75 ft. Cable Length, Includes 18 in. RG-188 Pass Through Cable, PL-259, Each See More Specifications

In Stock (more than 10 available)

Estimated Ship Date: Today Would you rather pick it up? Select Location

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Add To Cart

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Recommended Coax

- Bury-Flex
 - Center conductor stranded copper not CCA
 - Dual shield
 - Indoor/outdoor, direct burial
 - Very low loss
 - Low cost

Bury-FLEX ™ Flexible Low-Loss Coax

By combining a gas-injected foamed dielectric with a dual foil and braid shield construction, **BURY-FLEX™** provides the electrical and performance characteristics found in the more expensive 400-series coaxes as well as typical air dielectric type cables.

The Polyethylene (PE) jacket is durable enough for Direct Burial, yet flexible enough to be used for Rotator Loops. The PE jacket also provides improved UV resistance compared to typical PVC jackets, significantly extending the life of your cable.

	Pricing Table			
QTY	<100 ft	<499 ft	<999 ft	>1000 ft
COST	\$1.03/ft	\$.96/ft	\$.90/ft	\$.84/ft



Typical Characteristics		
Impedance:	50 Ohms	
Capacitance:	24.6 pF/FT	
Velocity:	82% nom.	
Attenuation dB/100 FT		
10 MHz	.6	
50 MHz	1.1	
100 MHz	1.5	
200 MHz	2.0	
400 MHz	2.8	
700 MHz	3.9	
900 MHz	4.4	
1000 MHz	4.8	

Physical Properties		
Conductor:	9.5 AWG Stranded Bare Copper	
Dielectric:	Foamed PE	
Shield 1:	Bonded Foil (100% Coverage).	
Shield 2:	Tinned Copper Braid (97% Coverage)	
Jacket:	UV Resistant PE .405" nom OD	
Cable Weight:	.1 lbs/ft nom.	
Bend Radius:	2" min.	
Suitable for Indoor, Outdoor and Direct Burial Applications.		



Recommended Surge Protector

- Alpha Delta ATT3G50UHP
 - 2,000 watt power rating
 - Replaceable gas discharge tube
 - Low inseration loss

Alpha Delta UHF Connector Coaxial Cable Surge Protectors ATT3G50UHP



Part Number: ALF-ATT3G50UHP





\$55.99

Alpha Delta UHF Connector Coaxial Cable Surge Protectors

Surge Protector, Coaxial, DC pass, UHF Female, SO-239, Stud Mount, 2,000 W Power Rating, Each See More Specifications

In Stock (more than 10 available)

Estimated Ship Date: Today Would you rather pick it up? Select Location

1 0

Add To Cart

💙 Wish List 🛨 Compare

PayPal CREDIT Pay over 12 months at 0% APR. Min purchase required.

Recommended Power Supply

- Samlex SEC-1235M
 - 30 amps continuous
 - 🔅 35 amps max
 - Weight 3.4 pounds

Samlex Desktop Switching Power Supplies SEC-1235M

(81) Part Number: SXA-03435











\$169.95

Samlex Desktop Switching Power Supplies >

SEC-1235M Desktop Switching Power Supply, Dual Meters, Input: 120 VAC/230VAC Internal Set, Output: 13.8 VDC, 30 A, Each See More Specifications

Estimated Ship Date: Today

Would you rather pick it up? Select Location

Free Shipping A Prop 65 Warning



Add To Cart

PayPal CREDIT Pay over 12 months at 0% APR. Min purchase required.

DX Engineering Super Card

Questions/Comments

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Mojave desert sunset taken just North of Las Vegas, Nevada

Joshua trees, indicator species of the Mojave desert