



FLEX-6400™ / FLEX-6400M™



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TALK ISN'T CHEAP.
BUT IT CAN BE FISCALLY RESPONSIBLE.

There's no rule of law against owning an amazing radio that is affordable. Both the FLEX-6400 and FLEX-6400M offer the latest direct sampling transceiver technology at an economical price for the general HF/6m operator while providing stellar performance for chasing DX and contesting.



FOR ANYONE WHO LIKES GAME CHANGING.

The FLEX-6400™ is designed for the ham who is looking to operate the radio from a PC, laptop, Maestro™, Mac or iOS client — either local or remote. The 6400M, on the other hand, allows the same client access, but does so with a stunning 8-inch 1920 x 1200 IPS WUXGA touchscreen display and ergonomic controls to deliver a high-performance SDR with a traditional radio interface — no PC required. Both models share the same game-changing band awareness, industry-leading phase noise performance, brick wall filters and legendary audio performance to deliver you the most fun across a wide variety of operating styles. Whether you opt for the 6400 or the 6400M, leading-edge technology is in your hands.



39.77°N, 84.42°W

OPERATE FROM ANYWHERE ON THE MAP. OR NOT ON THE MAP.

FlexRadio's industry-leading SmartSDR™ software offers compatibility across the entire FLEX-6000™ Signature Series family to deliver continuous leveraged software enhancement. And you can use the latest SmartLink® technology to access your radio virtually anywhere from any SmartSDR-compatible client with only a login and password — even your iPhone®. All you need is an Internet connection and the will to go places you've never gone before.

SIMPLE ISN'T EASY. BUT THAT'S WHAT WE DO.

We strive to achieve the intuitive and simple in everything we do. With the FLEX-6000 series there is no longer a need for complex configurations to integrate your station. We've kept it simple. With SmartSDR Digital Audio Exchange (DAX) and SmartSDR CAT, gone are the days of a rat's nest of cables and interfaces to make digital modes play nice with an analog radio. One cable, the Ethernet cable, provides a conduit for all digital mode software to interoperate with the FLEX-6000 series. No more hassle. No more cable spaghetti. Just operating pleasure.

PART RADIO. PART TIME MACHINE.

We believe a real SDR should improve over time. Which is why SDR is so critical to everything we create. As FlexRadio continues to enhance SmartSDR, you have the opportunity to upgrade your radio with each new release. Your radio literally evolves with you. The FLEX-6400/6400M ship with the most current version of SmartSDR installed and are eligible for free upgrades to all subsequent releases within the respective major release version number. Regular updates let you tap into additional features and functionality that improve your operational experience.

NOSTALGIA MEETS FUTURE.

There's just something perfectly analog about turning a knob. So, with that in mind, we continue to go out of our way to make sure our radios are easy to use and control. This means every dial, switch, knob, touchscreen — you name it — should be simple, clear and ergonomic. And there's nothing arbitrary about placement; everything is done with purpose so you can easily find what you need when you need it. This goes down to the controls, which are strategically spaced apart to prevent you from accidentally changing your radio to a different setting. We like to think we've thought of everything. At least for this very moment in time.

6400 FEATURES

- No PC Required with the 6400M
- Up to Two Independent Receivers
- Up to Two 7MHz Spectrum Displays
- 8-Inch 1920 X 1200 IPS Display*
- Ergonomic Workflow
- Wide Spaced/Single-Function Controls*
- 115dB RMDR
- No Noise Fatigue
- Ultra Low Phase Noise
- Full Break-in QSK CW
- Brick Wall Filters
- Stunning Transmit Audio
- No Complex Setup Required
- Operate Anywhere, Any Time
- Use a Maestro™, iPad®, iPhone® or Laptop
- Across the Country or Across the World
- Complete Control

*Specific to 6400M Model

RECEIVER

Independent Band/Mode Receivers (Max)	2
1/2 kHz Reciprocal Mixing Dynamic Range (RMDR)	110/115 dB
ADC Bits/Sampling Rate	16/122.88 Msps
Frequency Coverage	30 kHz–54 MHz
Amateur Band Preselectors	3rd Order
Cableless Digital Audio Channels (DAX)/DAX IQ Channels	2/2
Receive Only Ports (Base/Including XVTR Ports)	1/2
Full Duplex RX/TX Operation	✓

SPECTRUM/WATERFALL DISPLAY

Internal Touch Panel Display Size Diagonal	8-inch (6400M)
Integrated Display Resolution	1920x1200 (6400M)
External Display Resolution/Connection	1920x1200/display port (6400M)
Spectrum/Waterfall Displays (Max)	2
Spectrum/Waterfall BW (Min/Max)	5 kHz–7MHz
Spectrum Dynamic Range (Max Zoom)	> 145dB
Spectrum Resolution Bandwidth (Min)	5.85 Hz

TRANSMITTER

160m–6m Transmitter Output	1-100W (25W AM)
Harmonic Suppression (Typ)	< -60 dBc
Transverter Ports	1
Transverter IF Frequency Coverage/Power	100 kHz–54 MHz/0 to +10 dBm
Integrated Automatic Antenna Tuner Range	3:1 SWR
Continuous MARS/CAP Coverage	Optional

GENERAL

Modes (Note 1)	SSB, CW, Digital, RTTY, AM, FM, SAM, FreeDV
Integrated Remote Operation	✓
Maestro, PC, MAC, iPhone, iPad Client Options	✓
Internal Speaker/Power	2W Class D (6400M)
Frequency Stability (0C–50C)	0.5ppm (TCXO)
GPS Disciplined Oscillator	Optional 5×10^{-12} Over 24 Hours
External 10MHz Reference Input	✓
Power Supply Requirements	25A, +13.8V DC nominal +/- 15%
Dimensions	6.74"H (17.1cm) x 14"W (35.6cm) x 13.25"D (33.7cm)

1. RTTY and other digital modes use 3rd party software over DAX channels.



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