



RADIO
FREQUENCY
SYSTEMS

Broadcast Solutions

TAKING BROADCASTERS

to the future





RFS is a world-leading expert in RF technologies

The broadcast industry is changing rapidly. **NextGen TV** is almost here, and **5G TV** is just around the corner. To take advantage of these new opportunities, broadcasters must make **business-critical decisions about technologies, equipment and deployment strategies.**

Making these decisions won't be easy. Broadcast evolution will affect everything from combiners and filters to transmission lines, feeder systems and antennas. **Solutions must work seamlessly together.** And they must be customized for specific sites and applications with no impact on performance.

Many broadcasters simply don't have the radio frequency (RF) engineering expertise needed to evaluate all of the available options and make the right strategic and technical decisions.

RFS is a world-leading expert in RF technologies. And we are the trusted advisor to broadcasters around the world. We are **the only vendor that can deliver all of the elements needed for successful broadcast evolution:**

- **Reliable,** end-to-end solutions all the way from the transmitter to the antenna
- **Custom innovations** for the most difficult technical challenges
- **Future-ready** solutions available today
- **A full suite of expert services,** from site survey, RF analysis and solution design to installation management

NEXTGEN TV is almost here





Custom innovations for the most difficult challenges

New technologies bring new challenges. In some cases, solutions don't exist. In other cases, **solutions must be tailored to customers' operations.**

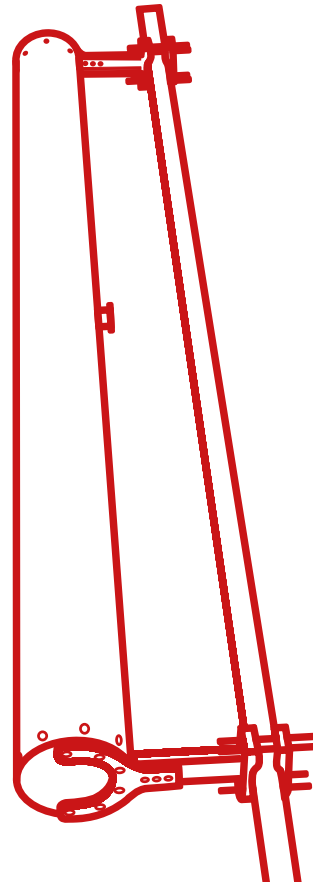
We are inventors, and we specialize in customizing broadcast solutions to address specific requirements. **We have pushed the broadcast industry forward on numerous fronts,** delivering key technical advances with strategic advantages:

- **Futureproof flexibility:** Our patented Variable Polarization Technology (VPT) allows multiple broadcasters to share the same antenna, but use different polarization ratios. Each broadcaster can easily change their unique polarization ratio whenever needed to support new transmission requirements.
- **Cost-effective customization:** Our elliptical wideband slot antenna features constant 25 percent or 30 percent elliptical polarization on all channels, and is built using modular components. We can quickly and easily tailor antennas to match customer requirements while significantly reducing lead times with mass-produced antennas.
- **Compact sizes:** Over the last few years, we reduced the average size of our indoor products by at least 60 percent, helping our customers save real estate costs and setting new industry benchmarks for compact indoor RF equipment. We also reduced the drag factor on our antennas by 50 percent, reducing wind loading to the point where most existing towers don't need to be upgraded to support new antennas.
- **Speed and simplicity:** Our patented Broadcast Computer Aided Tuning (BCAT) software allows technicians to easily tune broadcast filters to a new channel or mask in an hour or less.

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Future-ready solutions available today

An expert partner is **always looking ahead, anticipating customer needs.**

We're ready for NextGen TV. Our NG series antennas were specifically designed to meet the power, size and weight requirements on the shorter towers typically found at Single Frequency Network (SFN) sites.

With our unique combination of broadcast and wireless expertise, **we're also at the leading edge of 5G TV deployments.** We offer several 5G TV products today and we're actively involved in 5G broadcast trials. Our offerings include:

- **A panel antenna designed for 5G** high-power broadcast overlay that can be used in arrays to configure various antenna types — from omnidirectional to directional, from low gain through high gain.
- **A range of filters that are designed for 5G** and can be adjusted to typical LTE channel widths of 5 MHz, 10 MHz and 20 MHz.
- **Combiners for 5G TV** that allow 5G operators and broadcasters to share a single antenna. Our patented Variable Polarization Technology (VPT) optimizes the signal for 5G TV and broadcast TV.
- **HELIFLEX® cables** that are inherently broadband and continuous length to eliminate the flange VSWR build-up and banned channels that are often associated with rigid line systems.

we're at the
LEADING EDGE OF 5G TV DEPLOYMENTS
always looking ahead, anticipating
customer needs

**WE'RE
FUTURE-PROOF**





Proven in broadcast deployments around the world

The proof of value for any broadcast solution provider is found in their deployments and the trust their customers put in their solutions.

RFS is trusted by customers around the world to deliver innovative, high-quality broadcast solutions that perform in the field for decades:

- Multiple broadcasters in New York City rely on our **futureproof antenna deployment** featuring VPT on One World Trade Center.
- **American Tower relies on RFS** to supply broadcast antennas, combiners and RF systems at more than a dozen of its broadcast sites across the U.S.
- **South Korean broadcasters rely on our broadcast solutions** to power more than 60 percent of the ultra-high-definition (UHD) TV deployments in the country.
- Hunan Broadcasting System relies on our **high-power broadcast transmission antennas** at the Nanyue TV and FM transmission station on Mount Heng, one of the Five Great Mountains of China.

RFS IS TRUSTED
to deliver innovative,
high-quality broadcast solutions
that perform in the field
FOR DECADES





RADIO FREQUENCY SYSTEMS



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to learn how we can help you get the broadcast expertise and solutions
you need for success in the next generations of broadcast.

BRAZIL

Sao Paulo
+55 11 4785 6000
sales.latam@rfsworld.com

CHINA

Shanghai
+86 21 3773 8888
sales.apn@rfsworld.com

FRANCE, ITALY, SPAIN

Paris, Vimercate, Madrid
sales.europe@rfsworld.com

UK

Haddenham
+44 1844 294900
sales.europe@rfsworld.com

GERMANY

Hannover
+49 511 676 55 - 0
sales.europe@rfsworld.com

INDIA

Gurgaon
+91-124-4092788
sandeep.bhatla@rfsworld.com

NORTH AMERICA

Meriden, CT
+1.800.321.4700
sales.americas@rfsworld.com

AUSTRALIA

Kilsyth
+61 3 9751 8400
sales.aps@rfsworld.com

MEXICO

Tlalnepantla de Baz
+52 55 2881-1100
sales.latam@rfsworld.com

RUSSIA

Moscow
+7 495 258 0649
rfs.russia@rfsworld.com

UAE

Dubai
+971 4 568 7979
rfs.middle-east@rfsworld.com

For more information, visit:
www.rfsworld.com

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www.twitter.com/RFSworld