

## KVH – The leader in mobile satellite television

KVH Industries is the world's leading provider of mobile satellite communications and television antenna systems and has been serving the marine industry since 1982. With more than 125,000 mobile satellite antennas sold, KVH has supplied more in-motion satellite TV and communications systems for mobile applications than any other manufacturer in the world. Tens of thousands of boat, RV, motorcoach, and automobile owners enjoy digital-quality television programming thanks to KVH's diverse family of award-winning TracVision antennas.



In the marine market, KVH's TracVision family offers stylish, rugged designs ideal for the demanding maritime environment. With systems ideal for virtually any vessel size as well as a choice of "at anchor" or high-performance in-motion tracking, KVH's TracVision satellite TV antennas offer unmatched performance whether you are anchored for the evening or cruising through rough seas.

In the recreational vehicle market, our domed TracVision antennas offer outstanding reception and an aerodynamic design that sheds moisture, ensuring optimal signal strength and reception. That is why KVH TracVision systems are the preferred antenna by virtually all of the world's top RV manufacturers.



## Unsurpassed Warranty and Technical Support



KVH's award-winning commitment to quality is seen in the company's reliable products as well as an array of options that provide global product support to every customer. Wherever you travel, whatever KVH product you own, you can be certain to receive outstanding support and service through KVH's product and customer support programs. An ISO 9001:2000-certified organisation, KVH meets the highest international standards for quality.

KVH customers can choose the support service that is most appropriate to their product, situation, and location, including a 24/7 online support and troubleshooting system; a responsive, international KVH support team; a broad-based network of authorised dealers; and the KVH Certified Support Network (CSN).

KVH's CSN offers all KVH TracVision and TracPhone customers outstanding technical support. With a network of highly skilled and trained dealers and support centers worldwide, the CSN ensures the quick and efficient world-class service customers have come to expect from KVH Industries.

Visit [www.coursemaster.com](http://www.coursemaster.com)

Your Authorised Dealer



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Image courtesy of Fairline Boats Plc

# With the all-new KVH TracVision M-series, enjoy satellite TV *wherever you go!*

There's only one way to enjoy home theatre-quality television wherever you cruise – satellite TV; and for the boat owner who insists on quality and reliability, there's only one way to get it – TracVision from KVH, the world's leading mobile satellite TV antenna systems. If you want the best for your vessel, then you want a TracVision M-series antenna system onboard. Now with KVH's exclusive new RingFire™ antenna technology and the best coverage and reception available today, TracVision provides you with a front row seat to hundreds of channels of crystal-clear, digital-quality television entertainment, HDTV, commercial-free music, and more!



No matter where you travel, keep up to date on all of the latest news, weather, sports, and entertainment! With TracVision, you never have to miss out on your favourite programs, regardless of whether your vessel is at anchor or pounding through waves as you head for your next destination.

Choose KVH and benefit from the experience of the largest mobile satellite TV system manufacturer in the world. KVH pioneered the first modern digital satellite television system, DVB tracking, positive satellite identification, and a host of features that make our products easy to use and the most reliable in the industry. Plus, the attractive TracVision antennas look great on all vessels and blend with any style boat. With performance, style, and reliability like this, it's no wonder KVH TracVision antenna systems are the world's most popular and trusted marine satellite TV solutions.

KVH has fielded more than 125,000 mobile satellite antennas, far more than any other manufacturer! Just look around. In any harbor, anywhere around the world, you'll see the distinctive TracVision antennas with the gray baseplates installed on more boats than any other brand of satellite TV antenna. Better yet, ask KVH's customers. They'll tell you how happy they are with their KVH product!

Consumers, boat-builders, and marine electronics experts have made it clear – KVH is the undisputed leader in the marine satellite television market. We became the leader by putting our customers first and making their satisfaction our highest priority. But the real proof is in the products themselves. When you choose KVH, you choose the best.

*"After 32 years in this business, I was firstly amazed at the performance, and secondly, it is probably the first time, ever, that a piece of equipment has actually performed BETTER than the manufacturer claimed!"*

– Malcolm Threadgould  
Eurotek Marine

## System Diagrams/Technical Specifications



Antenna System	TracVision M9	TracVision M7	TracVision M5	TracVision M3dx	TracVision C3
<b>Power:</b>	9-36 VDC 5 amps (floating)	11-16 VDC 3 amps nominal 4 amps peak	11-16 VDC 3 amps nominal 3.5 amps peak	10-16 VDC 2.5 amps nominal 4 amps peak	11-16 VDC 2.5 amps nominal 3.5 amps peak
<b>Minimum EIRP:</b>	43-44 dBW	46-47 dBW	48-49 dBW	50 dBW	50-52 dBW
<b>Elevation Range:</b>	-15° to +85°	+10° to +80°	+15° to +80°	+10° to +80°	+15° to +75°
<b>Azimuth Range:</b>	720°	720°	720°	Continuous	720°
<b>Skew Control:</b>	Automatic, Stabilised	Manual	Manual	Manual	Manual
<b>Antenna Dimensions:</b>	89 cm Dia. x 99 cm H	66.5 cm Dia. x 69.6 cm H	49 cm Dia. x 53.3 cm H	39 cm Dia. x 44 cm H	81 cm Dia. x 37.5 cm H
<b>Antenna Weight:</b>	38.5 kg	25 kg	13.6 kg	8.6 kg	15 kg
<b>Antenna Dish Diameter:</b>	82 cm	60 cm	45 cm	37 cm	45 cm equivalent
<b>LNB Options (polarisation/output):</b>	Linear Universal Quad Circular Dual	Linear Universal Dual Circular Dual	Linear Dual Circular Dual	Linear Single Circular Dual	Linear Dual Circular Dual
<b>Power/Data Cables:</b>	30 m – Single Cable	30 m – 2 Cables	15 m – 2 Cables	15 m – Single Cable	8.5 m – Single Cable
<b>RF Cable:</b>	Customer-supplied	Customer-supplied	Customer-supplied	Included in Power/Data Cable	15 m – RG6 Coaxial
<b>Operating Temperature:</b>	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C	-25°C to +55°C
<b>Storage Temperature:</b>	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
<b>Warranty:</b>	2 Years Parts and Labour	2 Years Parts and Labour	2 Years Parts and Labour	2 Years Parts and Labour	2 Years Parts and Labour
<b>Satellite Coverage Regions:</b> For details, visit: <a href="http://www.kvh.com/footprints">www.kvh.com/footprints</a>	Worldwide	Worldwide	Worldwide	Worldwide	Worldwide

User Interfaces			
Master Control Unit for TracVision M9		Multi-service Control Box for TracVision M3	
Dimensions	18.5 D x 20.8 W x 6.6 H cm	Dimensions	20.67 D x 28 W x 6.6 H cm
System Weight	2.2 kg	System Weight	1.8 kg
Switchplate for TracVision M7 and M5		Switchplate for TracVision C3	
Dimensions	5.7 D x 12.1 W x 8.3 H cm	Dimensions	5.7 D x 12.1 W x 8.3 H cm
System Weight	0.45 kg	System Weight	0.45 kg

Meets FCC and CE requirements



## A satellite TV solution for every type and size of boat

Every boat owner has unique requirements. That's why KVH offers a full range of TracVision antennas for virtually every vessel size and type. Regardless of whether you spend most of your time relaxing on a lake or along the coast, sportfishing in demanding offshore conditions, or cruising around the world for pleasure or business, KVH's award-winning new line of high-performance, reliable TracVision antennas guarantee you the best reception and variety of programming, including HDTV, no matter where you go!

When choosing the right TracVision antenna for your boat, consider both your boat size as well as your operating area. Satellite signal strength varies, so as you travel farther offshore or into remote areas, you may need a larger antenna to ensure consistent reception wherever you go. KVH's powerful TracVision antennas, powered by our exclusive RingFire technology, offer a huge range of coverage options and rock-solid performance wherever you go.

### TracVision M9 – *The ultimate in satellite TV reception; our most powerful antenna – for vessels 80+ ft.*



The powerful 82 cm TracVision M9 offers 80+ ft. recreational and commercial vessels a sleek look that matches today's streamlined vessel designs. Its innovative technical features, including integrated GPS and automatic, fully stabilised skew adjustment, enable it to outperform any similarly sized antenna on the market. A unique mechanical design allows the powerful 82 cm antenna to be housed in a dome that is 35% smaller than competing systems.

### TracVision M7 – *The right solution when you want to head offshore – for 60-80 ft. boats*



When you're out where the big boys play, the high-performance 60 cm TracVision M7 offers commercial-grade performance, rock-steady satellite TV reception, and an extended coverage area perfect for boats 60-80 ft. Make sure you're watching the big game when the other boats are left with the message "SEARCHING FOR SATELLITE" on their TV screen! Add KVH's exclusive **GyroTrac Upgrade** for enhanced performance under extreme sea conditions.

### TracVision M5 – *The best combination of small size and big performance – for 40-60 ft. boats*



The TracVision M5 offers 30% greater reception and range than any other 45 cm system so you can enjoy satellite TV where no other marine satellite TV antenna system has ever worked before! The TracVision M5 offers outstanding, high-performance tracking and reception, ideal for 40-60 ft. boats. Add KVH's exclusive **GyroTrac Upgrade** for enhanced performance under extreme sea conditions.

### TracVision M3 – *Small, Simple, Powerful – simplicity and elegance in motion – for 25-40 ft. boats*



Perfect for yachts as small as 25 ft., the award-winning 38 cm TracVision M3 includes a Multi-service Control Box, which allows you to use any satellite service provider. This small, attractive, ultra-quiet antenna system brings big boat performance to small boats!

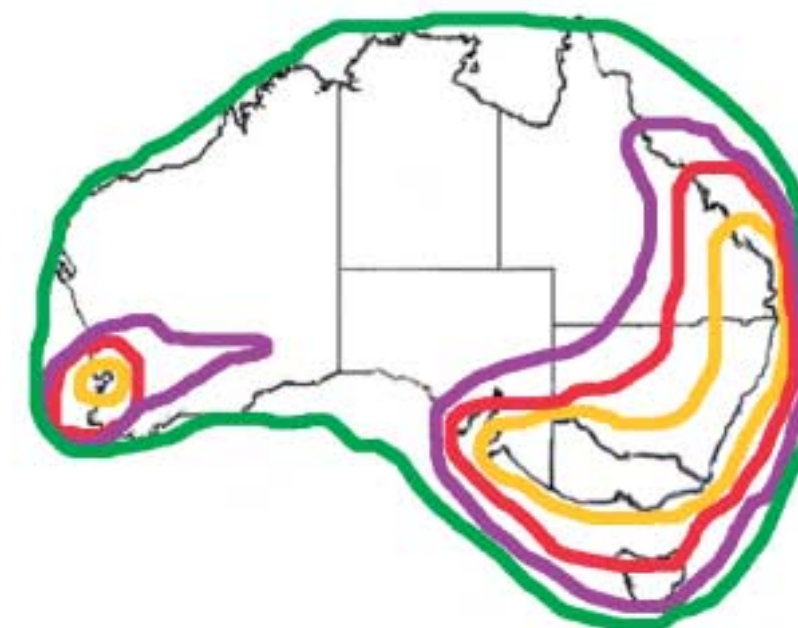
## Choose the TracVision satellite TV system that meets your needs:

	TracVision M9	TracVision M7	TracVision M5	TracVision M3	TracVision C3
Antenna Dish Diameter	82 cm	60 cm	45 cm	37 cm	45 cm
Radome Diameter	89 cm	66 cm	49 cm	39 cm	81 cm
Radome Height	99 cm	69 cm	53 cm	44 cm	37 cm
Antenna Weight	38.5 kg	25 kg	13.6 kg	8.6 kg	15.0 kg
Minimum EIRP*	43-44 dBW	46-47 dBW	48-49 dBW	50 dBW	50-52 dBW
User Interface	Master Control Unit (MCU)	Switchplate or Gyrotrac option	Switchplate or Gyrotrac option	Multi-service Control Box (MCB)	Switchplate
Tracking Technology	High-Performance (HP) tracking	High-Performance (HP) tracking	High-Performance (HP) tracking	Bluewater tracking	Coastal tracking
GyroTrac Upgrade Available	Included	Yes	Yes	No	No

## Coverage Map

- 43-44 dBW EIRP Antenna  
*TracVision M9*
- 46-47 dBW EIRP Antenna  
*TracVision M7*
- 48-49 dBW EIRP Antenna  
*TracVision M5*
- 50 dBW EIRP Antenna  
*TracVision M3 and TracVision C3*

*This map is representative.  
For detailed information about  
the programming available from  
different service providers,  
contact Coursemaster Autopilots  
sales@coursemaster.com*



# The all-new M-series

\* KVH Industries does not have control over the programming or operation of the satellites or services that are covered in this document. The coverage maps for these satellites are provided as reference only and may change in the future or could be impacted by weather conditions. KVH provides no guarantees of satellite coverage, satellite availability, programming available on any specific satellite service, or compatibility of the TracVision system with new satellites that may be launched in the future. Please note that all Minimum EIRP values are average approximate figures that may vary according to actual transponder frequency and location.

## Enjoy home theatre-quality, high-definition TV with TracVision marine systems!

Superb resolution, unmatched picture quality, and multi-channel surround sound make the high-definition TV (HDTV) experience unlike any other. Now, the same lifelike pictures and crystal-clear audio quality that you enjoy on your home theatre system are available while you're at sea.

The demand for HDTV isn't based on boat size. Everyone deserves the right to enjoy brilliant TV picture and sound. That's why the TracVision M-series offers HDTV-ready designs in every antenna class so you can catch the big game in HD whether you're relaxing dockside in your 30-footer or cruising remote island getaways in a megayacht.

Bringing HDTV programming onto your boat has never been easier thanks to the versatility of the TracVision M-series with completely automatic HDTV satellite channel switching, right from your remote control, just like home!



## Taking high-performance to new commercial limits – using KVH's GyroTrac Upgrade

Any TracVision M-series antenna with KVH's signature HP tracking guarantees outstanding tracking and uninterrupted satellite television reception in virtually any sea condition. But what about for the fishing or commercial vessel that needs a bit more, or the boat owners who operate their vessels under the most extreme sea conditions and still demand crystal clear TV reception?

Before you go out where the sea gets really rough and Force 7 is a calm day, make sure to add the extra power offered by KVH's GyroTrac Upgrade to your TracVision M5 or M7. A standard feature in the TracVision M9, this rugged gyro-stabilised digital compass not only allows your TracVision to find the satellite faster when you start up, but also helps keep the antenna locked onto the satellite, even as the vessel slams through rough seas and sends 12G shocks through the support structure of your boat and your TracVision. Plus, when added to the TracVision M5 or TracVision M7, it offers precision heading data to your other onboard systems for added accuracy and reliability. No matter how rough you go, you'll always be able to rely on your TracVision to bring your favourite entertainment along for the trip.



## KVH TracVision and TracPhone® – Keeping Track of Your World!

Modern satellite services can provide you with all of the conveniences of your home and office...at sea. Just as KVH's TracVision connects you to satellite TV, KVH's complete line of TracPhone communications systems provide phone, fax, e-mail, and even high-speed Internet services almost anywhere you travel. Eight-time NMEA award winners and perfectly matched to KVH's TracVision antenna systems, TracPhone systems provide an attractive dual-dome installation to any vessel.



Images courtesy of Fairline Boats, plc



KVH offers a complete line of Inmarsat communications systems – the mini-M TracPhone 252, ideal for affordable, voice, fax, and e-mail; or the powerful TracPhone Fleet F33, F55, and F77 systems. Inmarsat Fleet service offers global telephone and fax connections in addition to equipping vessels with powerful high-speed Internet capabilities using Inmarsat's Integrated Services Digital Network (ISDN) and Mobile Packet Data Service (MPDS). For complete information on KVH's TracPhone systems, visit [www.coursemaster.com](http://www.coursemaster.com) or ask your dealer for a TracPhone brochure.

KVH offers one-stop shopping for Inmarsat equipment and service, including some of the most competitive Inmarsat airtime rates available. KVH's Velocity™ Acceleration Software boosts Inmarsat data rates by 200-500% and is available to KVH customers who activate their Inmarsat service through the "Inmarsat Airtime by KVH" program. Working hand-in-hand with our award-winning satellite communications products is our state-of-the-art service network to support all of your Inmarsat service needs. Together, TracVision and TracPhone help you keep up-to-date, entertained, and in touch with the world around you.



## Award-winning products from KVH – the leader in mobile satellite TV antenna systems

KVH offers a complete line of high-performance TracVision satellite antennas to deliver satellite entertainment almost anywhere you go. KVH TracVision antennas aren't just good, they're the best in Europe and around the world. And don't just take our word for it – ask the National Marine Electronics Association (NMEA), which has given TracVision the "Industry Award for Marine Entertainment" for the last nine years in a row, and the international panel of judges who awarded TracVision the European Design Award METS (DAME) Prize in the marine electronics category.



### Introducing KVH's exclusive RingFire™ technology

The TracVision M-series antennas all use KVH's proprietary new RingFire technology, a remarkable breakthrough in antenna design. Fusing precisely shaped, tuned parabolic dish antennas with custom designed, dual-mode feedtubes and uniquely modified LNBS, RingFire technology provides unmatched illumination of the reflector resulting in signal strengths that are comparable to competitors' larger antennas. TracVision M-series antennas are up to 30% more powerful than KVH's TracVision HP™ products, which were already among the best in the industry. This means that with the TracVision M-series you'll enjoy wider geographic coverage and better reception, even in extreme weather.

#### TracVision M-series antennas provide:

- Ultra-high efficiency antennas using KVH's exclusive RingFire technology for the best reception and coverage available
- Unsurpassed High-Performance (HP) tracking and superior offshore performance in even the most demanding conditions
- HDTV-ready systems in every antenna class so you can watch the best programming TV has to offer
- Positive satellite identification using integrated Digital Video Broadcast (DVB\*) technology
- Reception of all leading satellite TV services around the globe for unmatched choices in entertainment
- Support for multiple TVs and receivers, so everyone onboard can enjoy the TV programs they want
- Completely automatic satellite switching with your remote – a KVH exclusive!
- Proven, rugged, and reliable designs for trouble-free operation in the demanding marine environment



Image courtesy of Oyster Marine