



TracVision® M-series

Enjoy Satellite TV...wherever you go!



Product Guide

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 for 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!

300+ channels

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 favorite 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 design, performance, 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. Talk to 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

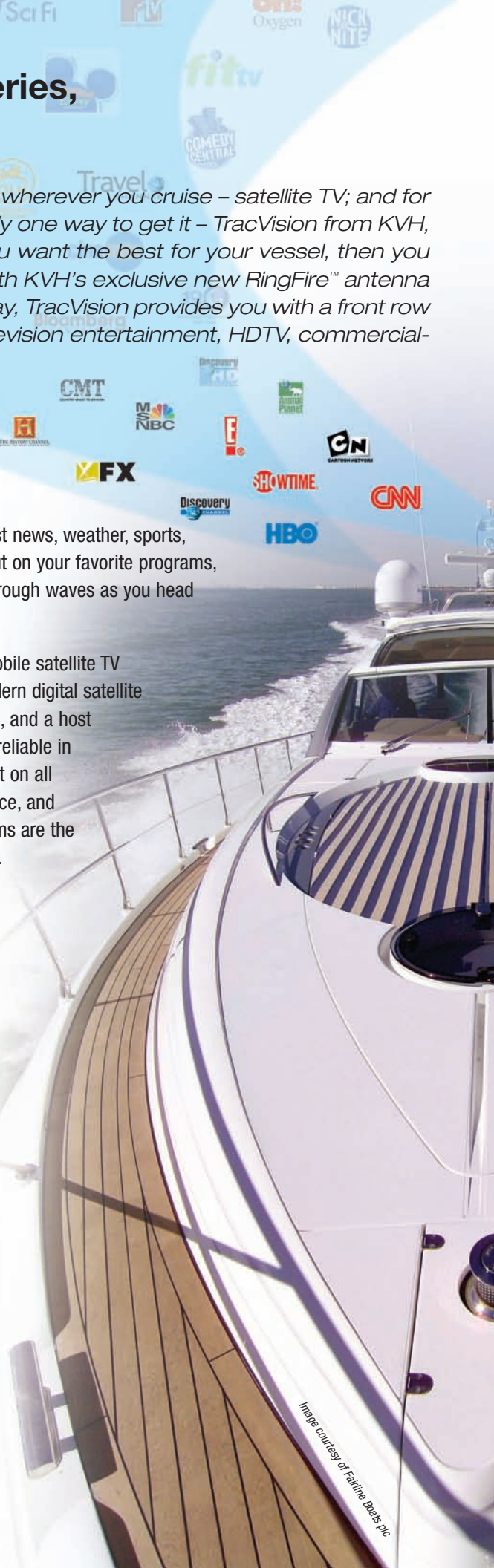
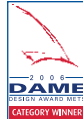


Image courtesy of Farline Boats plc

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 marine satellite TV systems in 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 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 – even with DIRECTV's multi-satellite HDTV services – a KVH exclusive!
- Proven, rugged and reliable designs for trouble-free operation in the demanding marine environment



Image courtesy of Oyster Marine

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 cruising 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 cruise. KVH's powerful TracVision antennas, powered by our exclusive RingFire technology, offer a wide range of coverage options and rock-solid performance wherever you cruise.

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



The powerful 32" 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 stabilized skew adjustment, enable it to outperform any similarly sized antenna on the market. A unique mechanical design allows the powerful 32" 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 24" 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 **Tuna Tower Upgrade** for outstanding performance in even the most extreme 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 18" system so you can enjoy satellite TV where no 18" 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 **Tuna Tower Upgrade** for outstanding performance in even the most extreme conditions.

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



Perfect for vessels as small as 25 ft., the award-winning 14" TracVision M3 is now offered in two versions: the simple, yet powerful TracVision M3ST with its exclusive integrated DIRECTV Receiver/Controller, or the deluxe TracVision M3DX with a Multi-service Control Box, which allows you to use any satellite service provider and is HDTV-compatible. Both small, attractive, ultra-quiet antenna systems bring big boat performance to small boats!

TracVision M2 – *Makes an evening at the dock or at anchor as fun as a day on the water – for 25-40 ft. boats*



KVH's new 14" TracVision M2 "at anchor" satellite TV system is a great choice for boaters who want to enjoy premium DIRECTV programming while at anchor or at the dock. Get KVH's award-winning quality and reliability at a breakthrough price thanks to this fully automatic system designed for those times when you only want to sit back and relax after a day on the water. Includes KVH's exclusive integrated DIRECTV Receiver/Controller.

The all-new M-series

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 DIRECTV's HDTV programming onto your boat has never been easier thanks to the versatility of the TracVision M-series and KVH's new optional **HDTV Tri-Sat AutoSwitch Upgrade!** Now you can switch between DIRECTV's standard and HD programming on as many as three satellites using only your remote control, just like home.



Taking high performance to new heights – KVH's tuna tower upgrade

Any TracVision M-series antenna that offers KVH's signature High-Performance (HP™) tracking guarantees outstanding tracking and uninterrupted satellite TV in virtually any sea condition. But what about for the boaters who need a bit more; the ones who take their boat to the edge in search of the big one; the boaters with the high-performance sportfisher and a tuna tower?

Before you head after that marlin and push the throttle into the red, make sure to add the extra power offered by KVH's **Tuna Tower Upgrade** to your TracVision M5 or M7. This rugged gyro-stabilized 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 boat slams through rough seas at 40 knots and send 12G shocks through the tuna tower and the TracVision. It also offers precision heading data to your other onboard systems for added accuracy and reliability. And for those of you choosing a TracVision M9, the gyro-stabilized digital compass is already built in as standard equipment so while you won't be putting the M9 on your tuna tower, you'll still enjoy the same enhanced tracking and precision! No matter how fast you go, you'll always be able to rely on your TracVision to bring your favorite entertainment along for the ride.









*"We had the TracVision on a 65-footer and I swear the thing was bulletproof!
We've been out in 10- to 12-foot waves and are still able to watch television!"*

*— Captain S. Pearson
Florida Sportfish Captain*

Image courtesy of Viking Yachts

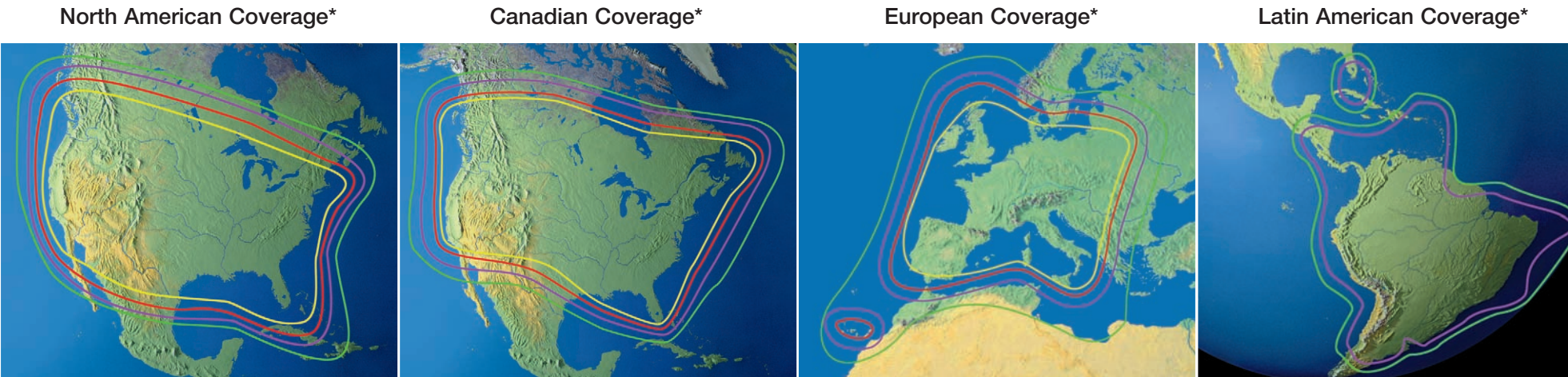
Choose the TracVision satellite TV system that meets your needs:

	TracVision M9	TracVision M7	TracVision M5	TracVision M3DX	TracVision M3ST	TracVis
						
Antenna Dish Diameter	32" (82 cm)	24" (60 cm)	18" (45 cm)	14.5" (37 cm)	14.5" (37 cm)	14.5" (37 cm)
Radome Diameter	35" (89 cm)	26" (66 cm)	19" (49 cm)	15.5" (39 cm)	15.5" (39 cm)	15.5" (39 cm)
Radome Height	39" (99 cm)	27" (69 cm)	21" (53 cm)	17.5" (44 cm)	17.5" (44 cm)	17.5" (44 cm)
Antenna Weight	85 lbs (38.5 kg)	55 lbs (25 kg)	30 lbs (13.6 kg)	19 lbs (8.6 kg)	19 lbs (8.6 kg)	19 lbs (8.6 kg)
Minimum EIRP*	43-44 dBW	46-47 dBW	48-49 dBW	50 dBW	50 dBW	50 dBW
User Interface	Master Control Unit (MCU)	Master Control Panel (MCP)	Master Control Panel (MCP)	Multi-service Control Box (MCB)	Integrated DIRECTV® Receiver/Controller	Integrated DIRECTV® Receiver/Controller
Tracking Technology	High-Performance (HP™) tracking	High-Performance (HP™) tracking	High-Performance (HP™) tracking	Bluewater tracking	Bluewater tracking	“At Anchor” tracking
Tuna Tower Upgrade Available	Included	Yes	Yes	No	No	No
HDTV Upgrade Available	Yes	Yes	Yes	Yes	No	No
North American LNB KVH Part Number	Circular Dual 01-0282-01	Circular Dual 01-0287-21	Circular Dual 01-0286-21	Circular Dual 01-0279-04	Circular Dual (DIRECTV only) 01-0279-01	Circular Dual (DIRECTV only) 01-0291-01
European LNB KVH Part Number†	Linear Universal Quad 01-0282-04	Linear Universal Quad 01-0287-24	Linear Dual 01-0286-22	Linear Single 01-0279-02	N/A	N/A
Latin American LNB KVH Part Number†	Galaxy Circular Dual 01-0282-03	Galaxy Circular Dual 01-0287-23	N/A	N/A	N/A	N/A
Sky Mexico LNB KVH Part Number†	Sky Linear Dual 01-0282-05	Sky Linear Dual 01-0287-25	Sky Linear Dual 01-0286-25	Sky Linear Single 01-0279-05	N/A	N/A
MSRP (North American Model)	\$14,995	\$7,995	\$5,995	\$4,995	\$3,995	\$2,995

†Optional system configuration – contact KVH for details and pricing Prices and specifications subject to change without notice






Coverage Maps

- 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 M3dx, M3st,
TracVision M2, and TracVision C3
- These maps are representative.
For detailed information about
the programming available from
different service providers, visit:
www.kvh.com/footprints



* 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 affected by changes in 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 approximations based on frequency and location.

our needs:

TracVision M5	TracVision M3 _{DX}	TracVision M3 _{ST}	TracVision M2	TracVision C3
				
	14.5" (37 cm)	14.5" (37 cm)	14.5" (37 cm)	18" (45 cm) equivalent
	15.5" (39 cm)	15.5" (39 cm)	15.5" (39 cm)	32" (81 cm)
	17.5" (44 cm)	17.5" (44 cm)	17.5" (44 cm)	14.5" (37 cm)
(kg)	19 lbs (8.6 kg)	19 lbs (8.6 kg)	19 lbs (8.6 kg)	33 lbs (15.0 kg)
	50 dBW	50 dBW	50 dBW	50-52 dBW
Control Panel (MCP)	Multi-service Control Box (MCB)	Integrated DIRECTV® Receiver/Controller	Integrated DIRECTV® Receiver/Controller	Switchplate
Distance (HP™) tracking	Bluewater tracking	Bluewater tracking	“At Anchor” tracking	Coastal tracking
	No	No	No	No
	Yes	No	No	Yes
	Circular Dual 01-0279-04	Circular Dual (DIRECTV only) 01-0279-01	Circular Dual (DIRECTV only) 01-0291-01	Circular Dual 01-0225-23
	Linear Single 01-0279-02	N/A	N/A	Linear Single 01-0225-20
	N/A	N/A	N/A	N/A
ual	Sky Linear Single 01-0279-05	N/A	N/A	N/A
	\$4,995	\$3,995	\$2,995	\$1,995

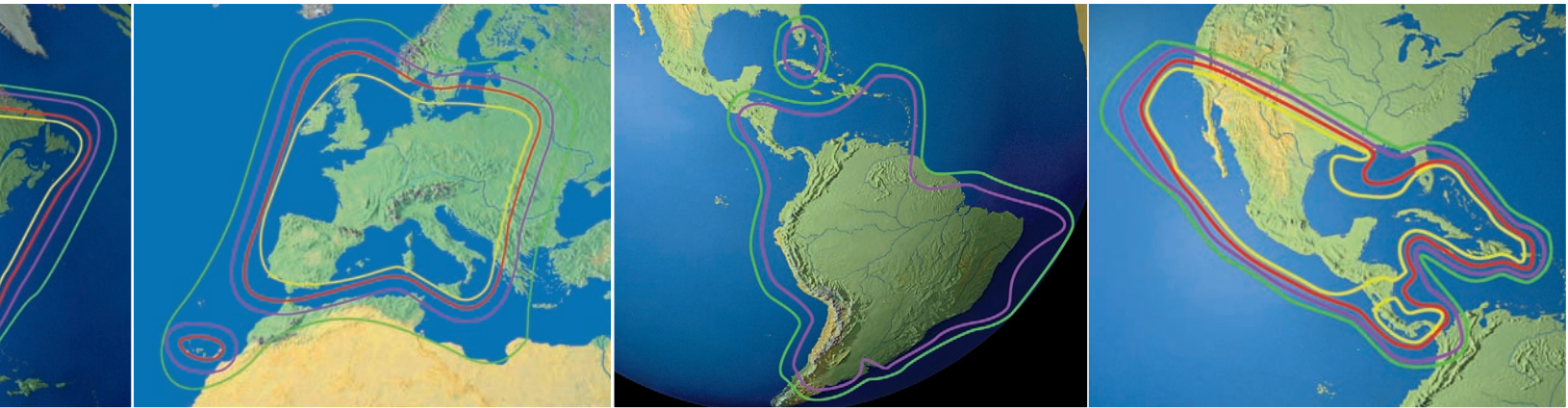
subject to change without notice

e*

European Coverage*

Latin American Coverage*

Mexican & Central American Coverage*



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 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

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

Dual Domes




KVH offers a complete line of Inmarsat communications systems – as well as the revolutionary TracPhone V7, powered by KVH's exclusive mini-VSAT Broadband service. Whether you need a super reliable phone that you can count on to work in almost any sea conditions, anywhere in the world, or the best mobile broadband connections available, KVH has the TracPhone system for you. For complete information on KVH's TracPhone systems, visit www.tracphone.com or ask your dealer for a TracPhone brochure.


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 satellite communications service needs. Together, TracVision and TracPhone help you keep up-to-date, entertained, and in touch with the world around you.




System Diagrams/Technical Specifications




M9 User Interface




Master Control Unit (MCU)
User-friendly system set-up, monitoring, and diagnostics.




M7 & M5 User Interface




Master Control Panel (MCP)
User-friendly system set-up, monitoring, and diagnostics.




M3dx User Interface




Multi-service Control Box (MCB)
User-friendly system set-up, monitoring, and diagnostics.




M3st & M2 User Interface



Integrated Receiver/Controller
12V DIRECTV® receiver with RF/IR remote control and system status LEDs— exclusive onscreen system set-up, monitoring, & diagnostics.



C3 User Interface



Switchplate
On/Off switch and connection for PC diagnostics.

Options purchased separately

Tuna Tower Upgrade



GyroTrac™

DIRECTV HDTV Tri-Sat AutoSwitch Upgrade



HDTV Tri-Sat AutoSwitch

Antenna System	TracVision M9	TracVision M7	TracVision M5	TracVision M3dx / M3st	TracVision M2	TracVision C3
Power:	24-30 VDC 2.5 amps (continuous)	12-16 VDC 3 amps nominal 4 amps peak	12-16 VDC 3 amps nominal 3.5 amps peak	10-16 VDC 2.5 amps nominal 3.5 amps peak	10-16 VDC 2.5 amps nominal 4 amps peak	12-16 VDC 2.5 amps nominal 3.5 amps peak
Minimum EIRP:	43-44 dBW	46-47 dBW	48-49 dBW	50 dBW	50 dBW	50-52 dBW
Elevation Range:	-15° to +85°	+10° to +80°	+15° to +80°	+10° to +80°	+10° to +80°	+15° to +75°
Azimuth Range:	720°	720°	720°	Continuous	Continuous	720°
Skew Control:	Automatic	Manual	Manual	Manual	N/A	Manual
Antenna Dimensions:	35" dia x 39" h (89 cm x 99 cm)	26.2" dia x 27.4" h (66.5 cm x 69.6 cm)	19.2" dia x 21" h (49 cm x 53.3 cm)	15.5" dia x 17.5" h (39 cm x 44 cm)	15.5" dia x 17.5" h (39 cm x 44 cm)	32" dia x 14.8" h (81 cm x 37.5 cm)
Antenna Weight:	85 lbs (38.5 kg)	55 lbs (25 kg)	30 lbs (13.6 kg)	19 lbs. (8.62 kg)	19 lbs. (8.62 kg)	33 lbs. (15 kg)
Antenna Dish Diameter:	32" (81.3 cm)	24" (61 cm)	18" (45.7 cm)	14.5" (37 cm)	14.5" (37 cm)	18"-equivalent (45.7 cm)
LNB Options (polarization/output):	Circular Dual Linear Dual Linear Universal Quad	Circular Dual Linear Dual Linear Universal Quad	Circular Dual Linear Dual	Circular Dual Linear Single	Circular Dual	Circular Dual Linear Single
Power/Data Cables:	100' (30 m) – Single Cable	100' (30 m) – 2 Cables	50' (15 m) – 2 Cables	50' (15 m) – Single Cable	50' (15 m) – Single Cable	28' (8.5 m) – Single Cable
RF Cable:	Customer-supplied	100' (30 m) – RG11 Coaxial	50' (15 m) – RG6 Coaxial	Included in Power/Data Cable	Included in Power/Data Cable	50' (15 m) – RG6 Coaxial
Operating Temperature:	-13°F to +130°F (-25°C to +55°C)	-13°F to +130°F (-25°C to +55°C)	-13°F to +130°F (-25°C to +55°C)	-13°F to +130°F (-25°C to +55°C)	-13°F to +130°F (-25°C to +55°C)	-13°F to +130°F (-25°C to +55°C)
Storage Temperature:	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Warranty:	2 Years Parts, 1 Year Labor	2 Years Parts, 1 Year Labor	2 Years Parts, 1 Year Labor	2 Years Parts, 1 Year Labor	2 Years Parts, 1 Year Labor	2 Years Parts, 1 Year Labor
Satellite Coverage Regions: for details, visit: www.kvhl.com/footprints	Worldwide	Worldwide	Worldwide	Worldwide / North America (M3dx) (M3st)	North America	Worldwide

User Interfaces			
Master Control Unit for TracVision M9		Multi-service Control Box for TracVision M3dx	
Dimensions	7.3"(d) x 8.2"(w) x 2.6"(h) (18.5 x 20.8 x 6.6 cm)	Dimensions	8.14"(d) x 11"(w) x 2.6"(h) (20.67 x 28 x 6.6 cm)
System Weight	4.9 lbs (2.2 kg)	System Weight	4 lbs (1.8 kg)
Master Control Panel for TracVision M7 and M5		Integrated Receiver/Controller for TracVision M3st & M2	
Dimensions	3"(d) x 8.2"(w) x 2.6"(h) (7.6 x 20.8 x 6.6 cm)	Dimensions	9"(d) x 11"(w) x 2.6"(h) (22.9 x 28 x 6.6 cm)
System Weight	1.5 lb (0.7 kg)	System Weight	4.3 lbs (2 kg)
Switchplate for TracVision C3			
Dimensions	2.25"(d) x 4.75"(w) x 3.25"(h) (5.7 x 12.1 x 8.3 cm)		
System Weight	1 lb (0.45 kg)		



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 150,000 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 powerful, 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 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 of virtually all of the top RV manufacturers in North America.



And in the automotive market, KVH's award-winning, ultra-low-profile TracVision A7 sets a new standard for in-car entertainment by connecting KVH customers throughout the continental United States to more than 185 channels of DIRECTV service, including local network programming and local channels.



Unsurpassed Warranty and Technical Support



KVH's commitment to quality is seen in the company's award-winning 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 organization, KVH meets the highest international standards for quality.

KVH customers enjoy a 24/7 online support and troubleshooting system; a responsive, international KVH support team; a broad-based network of authorized 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.tracvision.com



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