

**NAVnet**  
3D

**NAVnet**  
TZ  
touch

**NAVnet**  
TZ2  
touch

**NAVnet**  
TZ3  
touch

## FLIR Camera Compatibility with Furuno NavNet 3D, TZtouch, TZtouch2 and TZtouch3 MFDs



**FURUNO**





# FURUNO NavNet MFD / FLIR Camera Compatibility





**JCU-1 and JCU-2 require a POE hub or Power Injector. JCU-3 powers by 12vdc direct or via Power Injector**






**Compatibility is subject to change without notice**




**JCU-3 software v1.04-00048 and above required to allow fixed IP addressing for the Furuno system**





**Only one FLIR camera allowed per network. Don't use the MFD as Network switch between JCU and FLIR Camera. Make sure it goes through an external Hub/switch.**





MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M132</b> <i>(Discontinued)</i>  (TZ only, no Pan only 320x240) <a href="https://www.flir.com/products/m132/">https://www.flir.com/products/m132/</a>	NO	YES	YES	YES	TZT 6.01, TZT2 6.21 and above and any TZT3; video and steering by IP. JCU needed for Parking with exception of TZT3 v2.01 or higher that can provide parking direct. -Some functions not available in MFD due to no panning capability of M132.
<b>M232</b>  (PTZ Unit 320 x 240) <a href="https://www.flir.com/products/m232/">https://www.flir.com/products/m232/</a>	NO	YES	YES	YES	TZT 6.01, TZT2 6.21 and above and any TZT3; video and steering by IP. JCU needed for Parking with exception of TZT3 v2.01 or higher that can provide parking direct.
<b>M300C</b>  High Definition up to 1080/30p <a href="https://www.flir.com/products/m300c/">https://www.flir.com/products/m300c/</a>	NO	YES	YES	YES	TZT/TZT2 and TZT3 <b>Requires composite</b> video with this camera. Setup as if legacy M-Series with steering by network. FLIR JCU needed for Parking with exception of TZT3 v2.01 or higher that can provide parking direct. JCU also required for Surveillance Mode function. TZT and TZT2 requires JCU for proper Color changes of video.  TZT3 v3 (in development) and above should support full/direct IP video connection (HD-SDI is not compatible).
<b>MD324</b>  (stationary with 320 x 240) <a href="https://www.flir.com/products/md324/">https://www.flir.com/products/md324/</a>	NO	YES	YES	YES	No JCU required, video viewing only (no menu access, color palette or zoom without JCU) except for TZT3 that offers direct pallet and zoom support.  Camera is stationary type without pan/tilt. The NavNet TZtouch and TZtouch2 MFDs show analog camera images only.

MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M324L</b> (Discontinued)  <a href="https://www.flir.com/support/products/m324l/">https://www.flir.com/support/products/m324l/</a>	YES	YES	YES	YES	<p>When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)</p> <p>Only original two, color palettes supported</p> <p>JCU required to Park and shutdown Camera properly with exception to TZT3 v2.01+ that offers direct parking control.</p>
<b>M324S</b> (Discontinued)  (Pan/Tilt 336x256) <a href="https://www.flir.com/products/m324s/">https://www.flir.com/products/m324s/</a>	NO	YES	YES	YES	<p>When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)</p> <p>Only original two, color palettes supported</p> <p>JCU required to Park and shutdown Camera properly with exception to TZT3 v2.01+ that offers direct parking control.</p>
<b>M324CS</b> (Discontinued)  (PTZ 336x256) <a href="https://www.flir.com/products/m324cs/">https://www.flir.com/products/m324cs/</a>	NO	YES	YES	YES	<p>When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)</p> <p>Only original two, color palettes supported</p> <p>JCU required to Park and shutdown Camera properly with exception to TZT3 v2.01+ that offers direct parking control.</p>
<b>M324XP</b> (Discontinued)  <a href="https://www.flir.com/support/products/m324xp/">https://www.flir.com/support/products/m324xp/</a>	YES	YES	YES	YES	<p>When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)</p> <p>Only original two, color palettes supported</p> <p>JCU required to Park and shutdown Camera properly with exception to TZT3 v2.01+ that offers direct parking control.</p>

MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M332</b>  Pan/Tilt 320 x 256 VOx Microbolometer <a href="https://www.flir.com/products/m332/">https://www.flir.com/products/m332/</a>	NO	YES	YES	YES	TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Setup as if legacy M-Series with steering by network. FLIR JCU required for parking operations with exception to TZT3 v2.01 that can provide parking direct. TZT also requires JCU for Surveillance Mode. TZT and TZT2 requires JCU for proper Color changes of video. <b>TZT3 v2 and above can support direct/full IP video connection.</b> HD-SDI is not compatible
<b>M364</b>  Pan/Tilt 640 x 512 VOx Microbolometer <a href="https://www.flir.com/products/m364/">https://www.flir.com/products/m364/</a>	NO	YES	YES	YES	TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Setup as if legacy M-Series with steering by network. FLIR JCU required for parking operations with exception to TZT3 that can provide parking direct. TZT also requires JCU for Surveillance Mode. TZT and TZT2 requires JCU for proper Color changes of video. <b>TZT3 v2 and above can support direct IP video connection.</b> HD-SDI is not compatible
<b>M364C</b>  Pan/Tilt 640 x 512 VOx Microbolometer <a href="https://www.flir.com/products/m364c/">https://www.flir.com/products/m364c/</a>	NO	YES	YES	YES	TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Setup as if legacy M-Series with steering by network. FLIR JCU required for parking operations with exception to TZT3 that can provide parking direct. TZT also requires JCU for Surveillance Mode. TZT and TZT2 requires JCU for proper Color changes of video. <b>TZT3 v2 and above can support direct IP video connection.</b> JCU highly recommended and required for MSX and CTV modes. HD-SDI is not compatible
<b>M364C LR</b>  Pan/Tilt 640 x 512 VOx Microbolometer <a href="https://www.flir.com/products/m364c-lr/">https://www.flir.com/products/m364c-lr/</a>	NO	YES	YES	YES	TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Setup as if legacy M-Series with steering by network. FLIR JCU required for parking operations with exception to TZT3 that can provide parking direct. TZT also requires JCU for Surveillance Mode. TZT and TZT2 requires JCU for proper Color changes of video. <b>TZT3 v2 and above can support direct IP video connection.</b> JCU highly recommended and required for MSX and CTV modes. HD-SDI is not compatible
<b>M400</b>  Pan/Tilt 640 x 512 VOx Microbolometer (PTZ : 30x zoom 640x480) <a href="https://www.flir.com/products/m400/">https://www.flir.com/products/m400/</a>	NO	YES	YES	YES	Ensure Camera has v3.0.1 or better. When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD). Switching of Visible/Thermal and Zoom feature only usable with TZTv6.01, TZT2 6.21 and above (can still be done via the JCU). TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Steering by network. FLIR JCU required for Tilt and parking operations with exception to TZT3 that can provide parking direct. <b>TZT3 v2 and above can support direct IP video connection.</b> HD-SDI is not compatible

MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M400XR</b> Pan/Tilt 640 x 512 VOx Microbolometer (PTZ: 30x zoom 1080P with 640x480 thermal)  <a href="https://www.flir.com/products/m400xr/">https://www.flir.com/products/m400xr/</a>	NO	Mostly	Mostly	Mostly	Ensure Camera has v3.0.1 or better. When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD). Switching of Visible/Thermal and Zoom feature only usable with TZTv6.01, TZT2 6.21 and above (can still be done via the JCU).  TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Steering by network. FLIR JCU required for Tilt and parking operations with exception to TZT3 that can provide parking direct.  <b>TZT3 v2 and above can support direct IP video connection.</b> HD-SDI is not compatible
<b>M500</b>  (PTZ: 30x zoom 640x512) <a href="https://www.flir.com/products/m500/">https://www.flir.com/products/m500/</a>	NO	Mostly	Mostly	Mostly	This Camera has yet to be tested but expected to work much like the M400 If you attempt to test or use this camera with your Furuno unit, please contact the Light Marine Service Manager for personalized support.  Ensure Camera has v3.0.1 or better. When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD). Switching of Visible/Thermal and Zoom feature only usable with TZTv6.01, TZT2 6.21 and above (can still be done via the JCU).  TZT/TZT2 and TZT3 v1 <b>Requires composite</b> video. Steering by network. FLIR JCU required for Tilt and parking operations with exception to TZT3 that can provide parking direct.  <b>TZT3 v2 and above can support direct IP video connection.</b> HD-SDI is not compatible
<b>M612L (Discontinued)</b>  <a href="https://www.flir.com/support/products/m612l/">https://www.flir.com/support/products/m612l/</a>	YES	YES	YES	YES	JCU required to Park and shutdown Camera properly with exception to TZT3 v2.01+ that can provide parking direct.

MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M617CS</b> ( <i>Discontinued</i> )  (PTZ 640x480) <a href="https://www.flir.com/products/m617cs/">https://www.flir.com/products/m617cs/</a>	NO	YES	YES	YES	When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)  Only original two, color palettes supported  JCU required to Park and shutdown Camera properly with exception to TZT3 that can provide parking direct.
<b>M618CS</b> ( <i>Discontinued</i> )  <a href="https://www.flir.com/support/products/m618cs">https://www.flir.com/support/products/m618cs</a>	NO	YES	YES	YES	When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)  JCU required to Park and shutdown Camera properly with exception to TZT3 that can provide parking direct.
<b>MD625</b>  (Stationary 640x480) <a href="https://www.flir.com/products/md625/">https://www.flir.com/products/md625/</a>	NO	YES	YES	YES	Zoom feature only usable with TZTv6.01 and TZT2 6.21 and above along with TZT3.  JCU recommended for zoom levels.  Cameras is stationary type without pan/tilt. The NavNet TZtouch and TZtouch2 MFDs show analog camera images only.
<b>M625L</b> ( <i>Discontinued</i> )  <a href="https://www.flir.com/support/products/m625l">https://www.flir.com/support/products/m625l</a>	YES	YES	YES	YES	JCU required to Park and shutdown Camera properly with exception to TZT3 that can provide parking direct.

MODEL	NN3D	TZT	TZT2	TZT3	Notes:
<b>M625S</b> (Discontinued)  <a href="https://www.flir.com/products/m625s/">https://www.flir.com/products/m625s/</a>	NO	YES	YES	YES	When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)  Only original two, color palettes supported  JCU required to Park and shutdown camera properly with exception to TZT3 and has parking feature.
<b>M625CS</b> (Discontinued)  (PTZ 640x480) <a href="https://www.flir.com/products/m625cs/">https://www.flir.com/products/m625cs/</a>	NO	YES	YES	YES	When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)  Only original two, color palettes supported  JCU required to Park and shutdown camera properly with exception to TZT3 that has parking feature.
<b>M625XP</b> (Discontinued)  <a href="https://www.flir.com/support/products/m625xp">https://www.flir.com/support/products/m625xp</a>	YES	YES	YES	YES	When tracking targets via the MFD, JCU is not allowed to be used until the target tracking has been released. (by doing a manual move on the MFD)  Only original two, color palettes supported  JCU required to Park and shutdown camera properly with exception to TZT3 that has parking feature.
<b>MU</b> Series <b>MV</b> -Series 					Cameras are not compatible with NavNet TZtouch for controls.  Only composite video accepted.