Answers

Video input sources for MFD's using LightHouse II and LightHouse 3

What kinds of video inputs do Raymarine displays support?

Video input sources for MFDs using LightHouse II and LightHouse 3 (LH2 and LH3)

When operating with the latest available Raymarine product software updates, Raymarine's MFDs using LightHouse II and LightHouse 3 feature support for the following types of video inputs:

- NTSC/PAL composite video source (ex. CAM100, CAM50, T-Series Thermal *Cameras*, SatTV receivers, DVD Players, etc.) ... not supported by Axiom MFD', Axiom + MFDs, a6x MFDs, a7x MFDs, as these MFDs do not feature an interface for NTSC/PAL video inputs found in Axiom Pro MFDs and c/e/eS/gS-Series MFDs.

- Raymarine and FLIR Network/*IP Cameras* (ex. Raymarine CAM210, CAM220, CAM200IP, FLIR M132/M232 Thermal *Cameras* LH 2 M332, M364, M364C, M354C LR LH3 only)

- Possibly, third-party *IP cameras* and video encoders (ex. Axis M7011 See note at end of FAQ) Third-party *cameras* are not tested by Raymarine, are not explicitly intended to be supported, and we cannot offer any support if you choose to use a third-party video device, but they may well work provided that they fulfil at least the following minimum requirements:
  - Must support H.264 video compression
  - Must support RTSP (Real Time Streaming Protocol)
  - Must support ONVIF Service Detection (ONVIF User Authentication MUST BE DISABLED) ... inability to configure this *IP camera* feature is the most common cause for *IP camera* incompatibility.
  - Must have DHCP enabled & Dynamic *IP* set to ON
  - 720p or 1080P resolution

Please remember that we cannot give any support for third-party video devices, and that just because the *camera* works in today's software, does not mean that it might not stop working with a future MFD software release.

IP Camera System Functionality:
- Connection of *IP cameras* requires Lighthouse V19.03 or latest software
- If over 4 *cameras* are being used we recommend all Camera's are installed into an unmanaged Gig-E Network switch before being connected into the Raymarine Network
- The MFD will automatically assign an *IP* address to each *IP camera* installed
- The *IP cameras* must be interfaced via Ethernet cable to the Raymarine Ethernet network.
- The networked *IP cameras* can be viewed on any MFD on the Ethernet network.
- The analogue *camera* can only be viewed in the *Camera* app of the MFD, the *camera* is connected to. (unless connected to an Axiom Pro or Axiom XL)
- All *IP cameras* networked can be cycled/scrolled from any MFD
- All connected and networked *cameras* can be renamed.
- Cycle between *camera* inputs (with menu item to hide analogue *cameras* if no analogue input)

Network *cameras* have an installation advantage in systems featuring more than one MFD where *camera* video will be viewed. In such installations, the *camera* would simply be interfaced to the system's network switch (ex. HS5 Network Switch, SR6 Sirius Satellite Weather/Network Switch, SeaTalkhs Network Switch). Should a NTSC/PAL *camera* be installed in a system featuring more than one MFD where *camera* video will be viewed, then it would be necessary to install third party video amplifier/splitter which in turn would need to be interfaced to each MFD where *camera* video will be viewed. In a nutshell, network/*IP cameras* have the advantage of potentially reducing the amount of cable which must be chased throughout the boat.

▸ Axis M7011 and FLIR camera's* **

*Please note that Axis recently released newer software for their M7011 Video encoder which does not allow it to be plug and play with our systems any longer. You will need to backrev the software to version v5.90.1 (10/2015) and then perform the Hard power on reset that can be found in manual that Axis provides in order for it to work on Raymarine systems

**Also note that if you are using a video encoder to get the video from a FLIR *camera* into a Raymarine system that the system will no longer be able to control that *camera* as it has no way of relating the *IP* video from the encoder to the *Camera* controls it is seeing. (Legacy M-Series (M324, M625, M617, M618) MD Series (MD324, MD625) etc...)

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