



## On-board Cameras: A guide for vessel owners and crew

November 2022

This leaflet gives fishing vessel-owners, skippers and crew an overview of the on-board camera system that is being rolled out for in-shore commercial vessels.

You can find more detailed information at MPI's website: [mpi.govt.nz/cameras](https://mpi.govt.nz/cameras). If you have additional questions or concerns, you can email MPI's on-board cameras team anytime at [onboardcameras@mpi.govt.nz](mailto:onboardcameras@mpi.govt.nz).



**Fisheries New Zealand**

Tini a Tangaroa

### On-board cameras

Between now and 2024, cameras are being installed on up to 300 in-shore commercial fishing vessels.

### What cameras capture

The rollout of on-board cameras focuses on fisheries and fishing methods that pose the greatest risk to protected species or produce significant bycatch. We call these "in-scope" methods.

- Trawl vessels 32m or less (apart from those that only target scampi).
- Set net vessels 8m or greater.
- Bottom and surface longline.
- Purse seine.
- Danish seine vessels.

If you carry out any of these in-scope fishing activities, now or in the future, we will need to install cameras on your vessel by the relevant regulated timeline, so you are able to meet the new regulation requirements. A more detailed list of in-scope fishing activities and in-scope areas is available on MPI's website.

No other on-board activities are in-scope for review by on-board cameras.

For vessels that undertake a mixture of activities (such as potting or dredging in addition to these methods outlined above), cameras will only need to record activity relating to the above fishing methods.

## Timeline for installing on-board cameras

Cameras need to be installed and begin transmitting footage from these dates:

### March 2023 (Vessels with proof-of-concept cameras: April 2023)

- 1 inshore trawl and set net vessels 8m and over fishing off the west coast of the North Island

### 14 June 2023

- 2 set net vessels 8m and over fishing off the north, east and south coasts of the South Island

- 3 inshore trawl vessels fishing off the north, east, and south coasts of the South Island

### 29 November 2023

- 4 all surface longline vessels fishing anywhere in New Zealand

- 5 bottom longline vessels fishing in northern New Zealand

### 5 June 2024

- 6 all remaining bottom longline vessels

- 7 all remaining inshore trawl vessels

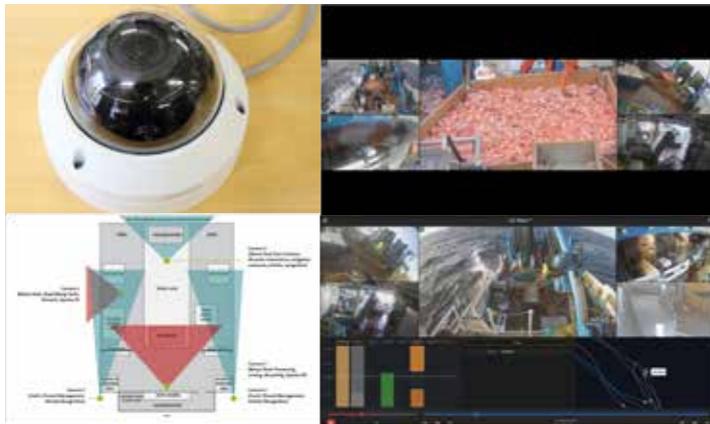
### 27 November 2024

- 8 all remaining set net vessels 8m and over

- 9 all purse seine vessels

- 10 all Danish seine vessels.

Below is an example camera-layout with sample screenshots of the sort of footage they will capture.



## How it all works

Before any cameras are fitted, an installation plan is agreed with vessel owners: setting out where cameras will be installed on each vessel, confirming each camera's field of view, and taking into account any privacy considerations. Once installed, the footage from the cameras is sent to an on-board hard-drive (known as a "Yellow-Fin") and then, when the vessel is in range, transmitted to MPI via Spark's 4G network to a dedicated server in the Cloud.

Spark Business Group are providing the on-board cameras and associated technology, and they have established a Fisher Support team to book an initial vessel assessment and agree an installation plan with vessel owners, and conduct the final installation of the camera system.



## The following section provides a step-by-step guide to the installation process:

- 1 Vessel-owners receive a phone call** from Fisher Support to confirm their details and to book a time for an on-board assessment to confirm the installation specifics.
- 2 On-board installation assessment** – Fisher Support will then conduct an on-board assessment with vessel owners/operators and confirm practical details before installation.
- 3 Vessel installation plan** – Following the assessment, a detailed installation plan is created for vessel owners to approve.
- 4 Installation** – Based on the details of the vessel installation plan and the timeframes agreed with the vessel owner, Fisher Support will contact a vessel owner to book a suitable time to install the camera system.
- 5 Support resources** – Spark will provide vessel owners with a quick reference guide and an on-boarding kit containing general information for crew, operational details of the cameras, signage and answers to frequently asked questions.
- 6 24/7 ongoing support** – A 24-hour, 7-day support desk is available through a dedicated phone number should there be any issues with the system after it is installed. Callers will be able to speak to an actual person anytime they need to ring this number. Spark will make this service available to you from March 2023, before fishers will need to start using the on-board camera system.

## Protecting your privacy

The camera system we are installing incorporates a number of features that automatically protect the privacy of fishers. All fishing activity captured by the cameras is encrypted and stored securely on the vessel hard drive. This is uploaded to the cloud over a dedicated 4G network. The cloud-based system then applies any necessary privacy protections. The privacy-protected file is used by MPI for review purposes.

Once the relevant footage has been captured and provided to MPI for review, these protocols and processes come into effect:

- All footage is matched to the vessel's electronic reporting data provided by fishers.
- MPI will review a selection of footage, based on a mix of random selection and specific risk-based factors (i.e. risk to protected species, ER/GPR trends).

- Reviewers are not able to choose which footage is selected for their review and every instance where footage is accessed in the system will have its own audit trail.

There are also strict controls that limit and govern the sharing of footage between government agencies and any requests from external organisations or members of the public. Fishers are currently able to request access to view their own footage under the Privacy Act; we hope to add an easier process for this in the coming year that appropriately meets the privacy provisions and requirements for all parties involved.

## If there is a problem with the system

If for any reason there is a problem with the operation of the on-board cameras, a fisher can phone **0800 225 674**. Spark will make this service available from March 2023, before you will need to start the on-board cameras system.

This number is staffed by Spark Business Group 24 hours a day, 7 days a week. Use this number to log any issues identified prior to departure or that occur at sea. The support desk staff will work with you urgently to resolve any issues, collect information should you need to apply for an exemption, and minimise any potential disruption to fishing activities.

If the equipment malfunction occurs while a fishing trip is underway, you are able to complete that trip, as long as you call Spark's support desk on **0800 225 674** to notify us of the malfunction as soon as practicable in the regular course of that trip. You are not required to cut your trip short (this is provided for in the regulations). An exemption would be required for any subsequent trips if the malfunction can't be repaired in time. Information about exemptions is on MPI's website.

## OTHER COMMON QUESTIONS:

### What does it cost to have cameras on my vessel?

There are no direct, fixed costs to fishers for having cameras installed on their vessel. The Government is covering the majority of the cost of the rollout and there are no additional charges for hardware, data transfer, remediation or any other aspect of the installation or operation of cameras for the rollout.

Of the total rollout cost (expected to be around \$68 million over the next three years), around \$10 million will be recovered from quota owners through a levy on specific fish stocks in total over the 2023/2024 and 2024/2025 fishing years. No costs will be recovered for the initial 2022/2023 fishing year.

Following the rollout, from 2025/2026 onwards, any camera-related operating costs will be recovered through the annual quota levy process. What portion of these costs are passed on to fishers is something that quota owners will determine independently.

### Can I see what the cameras are recording?

The camera system installation includes a small on-board monitor to give the skipper visibility of exactly what the cameras are recording. The placement of the monitor will be discussed and agreed with vessel owners as part of the vessel installation plan. All monitors will include a standard dimmer control to manage any potential glare from the screen. Details of this will be included in the operating guide that is provided to vessel owners with the installation of the on-board camera system.

### Will the system drain the vessel's battery?

Fisher Support will assess each vessel's power requirements for on-board cameras as part of the initial assessment, to ensure power needs of the vessel and the cameras are met. If any electrical system remediation is needed to ensure the vessel has sufficient power, for example if a vessel spends extended periods of time unconnected to shore power or with the engine turned off, this will be agreed with the vessel owner and installed as needed. There will be no direct cost charged to the fisher.

### What information is available for my crew?

We will provide online training to support fishers to get used to working successfully with cameras on-board. This includes an online "Responsible Fisher Passport" training course for all crew members, hosted on the MarineSafe platform – which includes an overview of on-board cameras, how to maintain and monitor the system, and a reminder of key regulatory requirements for yourself and crew on board.

Spark will provide a printed on-boarding pack for fishers with comprehensive information about the operation of the camera system, responses to frequently asked questions, a quick reference guide, and signage to indicate cameras are operating on board. Fishers who have further questions or need any additional information can contact us anytime at [onboardcameras@mpi.govt.nz](mailto:onboardcameras@mpi.govt.nz)