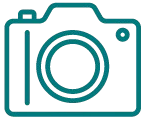
Ecological Monitoring System Australia

Datasheets: Camera Trapping Module



Version 2

4 July 2025

Version control

Readers are advised that this datasheet will undergo revision as the EMSA Monitor app undergoes new refinement and updated versions become available. The names of the fields may vary slightly from the modules and the datasheet during this process.

|  |  |  |
| --- | --- | --- |
| **Datasheet version** | **Date** | **Version update overview** |
| 1.0 | 3 May 2024 | Release of the datasheet matching Monitor version 1.0.0 |
| 2 | 4 July 2025 | Release of the datasheet matching Monitor version 1.0.7 |

Instruction

This datasheet can be used if the Monitor app is not accessible at the time of a field survey. The datasheet has been designed to match the EMSA module manual and the Monitor app workflow. However, there are some minor differences, as capturing the quantity and complexity of the data in hard-copy form is difficult to replicate. At times some additional information or less information is collected on the datasheet. Examples of this are where the app would readily collect the location, date and time information of each input with minimal user input, but the datasheet version only collects the survey start and end location, date and time.

Surveyors must follow the EMSA module manual as though they are using Monitor, i.e. by following the Instructions and Procedures section of the relevant protocol, but instead of entering the data in Monitor, data is entered on the datasheet.

**Surveyors are reminded to check the module manual to ensure that the mandatory pre-survey and prerequisites have been completed prior to undertaking the module.** A key example is where the Plot Selection and Layout Module must be completed prior to undertaking all plot-based protocols.

This datasheet can either be printed and used in the field using a pencil or used digitally on a device.

**Regional Delivery Partners are responsible for manually entering datasheet-collected data into Monitor once the app is fully functional again. The Department of Climate Change, Energy, the Environment and Water require that digital scans of the datasheets be uploaded into MERIT.**

Camera trap deployment survey (start)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Survey label\*  Used to identify this deployment. Subsequent re-equipping will use this label to select the deployment points you can do re-equipping on | | | | | Survey type\* | | |
|  | | | | |  | | |
|  | | | | |  | | |
| Start date(dd/mm/yyyy) &  time (24 hr)\* | | End date(dd/mm/yyyy) &  time (24 hr)\* | | | | Observer name/s\* | |
|  | |  | | | |  | |
| **Camera trap deployment** | | | | | | | |
| Additional details relative to survey type | | | | | | | |
| If *Survey type* is *Array transect* | | | | If *Survey type* is *Fauna plot* | | | |
| Transect no.\* | | | | Plot\* | | | |
|  | | | |  | | | |
|  | | | | | | | |
| Camera trap point ID\*  e.g. ‘Smith rd Nth’, consider if you are planning to deploy a paired camera trap nearby (e.g. ‘Smith rd Nth A’ and ‘Smith rd Nth B’) | | | Deployment start date\*   (dd,mm,yyyy) | | | Deployment ID  ID generated from the camera trap point ID and deployment start date (e.g. Smith rd Nth-2023-06-30) | |
|  | | |  | | |  | |
|  | | | | | | | |
| Target taxa | | | | Target species | | | |
|  | | | |  | | | |
|  | | | |  | | | |
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|  | | | |  | | | |
|  | | | |  | | | |
| **Camera trap location details** | | | | | | | |
| Camera trap mount\* | | | | Camera trap point location\*  Waypoint (lat/long) | | | |
|  | | | |  | | | |
|  | | | | | | | |
| Camera trap feature\* | | | | | | | |
| Feature\* | Feature comment  (e.g. carcass species) | | | Distance to feature (m)\* | | | Photo id\* |
|  |  | | |  | | |  |

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| --- | --- | --- | --- |
| Baited traps (if relevant) | | | |
| Bait station mount | Lure height (cm) | Lure type | Lure variety |
|  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Camera trap information** | | | | | | | | | | | | |
| Camera trap no.\* | | | | | | | SD card no.\* | | | | | |
|  | | | | | | |  | | | | | |
|  | | | | | | | | | | | | |
| Make\* | Model\*. | | | | Manufacture year | | Illumination\* | | Activation mechanism\* | | | Trigger speed (sec)\* |
|  |  | | | |  | |  | |  | | |  |
| **Camera trap settings** | | | | | | | | | | | | |
| Media type\*  (image/ video/ image & video) | | | Sensor sensitivity\* | | | | Quiet period\*  (mm:ss) | | | Aspect ratio\* | | |
|  | | |  | | | |  | | |  | | |
|  | | | | | | | | | | | | |
| Day night recording\* (day, night, day& night) | | | Night mode shutter speed (sec) | | | | Time format\* (12 or 24 hr) | | | Datetime\* | | |
|  | | |  | | | |  | | |  | | |
|  | | | | | | | | | | | | |
| Unit of temp\* (C or F) | | | | Battery type\* | | | | | User label | | | |
|  | | | |  | | | | |  | | | |
|  | | | | | | | | | | | | |
| Time lapse | | | | | | | | | | | | |
| Time lapse (on/off)\* | | | Time lapse interval (mm:ss) | | | | Time lapse schedule start | | | Time lapse schedule end | | |
|  | | |  | | | |  | | |  | | |
|  | | | | | | | | | | | | |
| If capturing images | | | | | | | | If capturing video | | | | |
| Images per trigger | | Image interval (sec) | | | | Image quality | | Video length | | | Video resolution | |
|  | |  | | | |  | |  | | |  | |
| **Camera trap setup** | | | | | | | | | | | | |
| Camera trap height (cm)\* | | | Camera trap angle  (0-90˚)\* | | | | Camera trap direction (˚)\* | | | Detection angle (˚) | | |
|  | | |  | | | |  | | |  | | |
|  | | | | | | | | | | | | |
| Slope (˚) | | | Aspect(˚) | | | | Camera trap photo no.\* | | | Habitat (MVG) | | |
|  | | |  | | | |  | | |  | | |
|  | | | | | | | | | | | | |
| Additional deployment comments | | | | | | | | | | | | |
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| **CAMERA TRAPPING DEPLOYMENT -DROP DOWN FIELD OPTIONS** | | | | | | | | |
| **Survey type** |  | **Feature** |  | **Bait station mount** |  | **Sensor sensitivity** |  | **Habitat (MVG)** |
| Camera trap point |  | Bait station |  | Star dropper |  | Low |  | Rainforests and Vine Thickets |
| Camera trap array – grid |  | Bait station – pest control |  | Survey stake – steel |  | Low/medium |  | Eucalypt Tall Open Forests |
| Camera trap array – transect |  | Pitfall trap |  | Survey stake – wood |  | Medium |  | Eucalypt Open Forests |
| Fauna plot |  | Drift fence |  | Peg – steel |  | Medium/high |  | Eucalypt Low Open Forests |
|  |  | Cork tile |  | Peg – wood |  | High |  | Eucalypt Woodlands |
| **Camera trap mount** |  | Carcass – natural |  | Other (specify) |  | Very high |  | Acacia Forests and Woodlands |
| Star dropper |  | Carcass – placed |  |  |  |  |  | Callitris Forests and Woodlands |
| Survey stake – steel |  | Road – sealed |  | **Lure type** |  | **Aspect ratio** |  | Casuarina Forests and Woodlands |
| Survey stake – wood |  | Road – unsealed |  | Passive |  | 4:3 standard |  | Melaleuca Forests and Woodlands |
| Fence post – existing |  | Track – unsealed |  | Food |  | 16:9 wide |  | Other Forests and Woodlands |
| Tree – trunk or stem |  | Trail – animal |  | Olfactory |  |  |  | Eucalypt Open Woodlands |
| Tree – branch |  | Trail – human |  | Audio |  | **Video resolution** |  | Tropical Eucalypt Woodlands/Grasslands |
| Tree – felled log |  | Creek line |  | Visual |  | 7680p (8K) (7680x4320) |  | Acacia Open Woodlands |
| Tree – stump |  | Creek bank |  | Other (specify) |  | 2160p (4K) (3840x2160) |  | Mallee Woodlands and Shrublands |
| Tripod |  | Waterpoint – natural |  |  |  | 1440p (2560x1440) |  | Low Closed Forests and Tall Closed Shrublands |
| Rock face |  | Waterpoint – infrastructure |  | **Illumination** |  | 1080p (1920x1080) |  | Acacia Shrublands |
| Rock pile |  | Habitat opening |  | Infrared – red glow |  | 720p (1280x720 |  | Other Shrublands |
| Building wall/ledge |  | Suitabe habitat |  | Infrared – low glow |  | 480p (854x480) |  | Heathlands |
| Building post |  | Foraging area |  | Infrared – no glow |  | 360p (640x360) |  | Tussock Grasslands |
| Sign post |  | Palatable plant |  | White flash – xenon |  | 240p (426x240) |  | Hummock Grasslands |
| Bridge |  | Flowering/fruiting plant |  | White flash – LED |  |  |  | Other Grasslands, Herblands, Sedgelands and Rushlands |
| Over/underpass |  | Tree hollow |  |  |  | **Battery type** |  | Chenopod Shrublands, Samphire Shrublands and Forblands |
| Culvert |  | Sign – tracks |  | **Activation mechanism** |  | NiMH rechargeable |  | Mangroves |
| Other (specify) |  | Sign – scats |  | Passive infrared |  | Lithium |  | Inland Aquatic - freshwater, salt lakes, lagoons |
|  |  | Sign – scratchings |  | Active infrared |  | Alkaline |  | Cleared, non-native vegetation, buildings |
|  |  | Sign – burrow |  | Beam break |  |  |  | Unclassified native vegetation |
|  |  | Sign – nest |  | Microwave motion |  |  |  | Naturally bare - sand, rock, claypan, mudflat |
|  |  | Sign – prey remains |  | Mechanical trigger |  |  |  | Sea and estuaries |
|  |  | Ridge top |  | Time lapse |  |  |  | Regrowth, modified native vegetation |
|  |  | Rock face |  |  |  |  |  | Unclassified forest |
|  |  | Rock pile |  |  |  |  |  | Other Open Woodlands |
|  |  | Wood pile/debris |  |  |  |  |  | Mallee Open Woodlands and Sparse Mallee Shrublands |
|  |  | Building |  |  |  |  |  | Unknown/no data |
|  |  | Bridge |  |  |  |  |  |  |
|  |  | Over/underpass |  |  |  |  |  |  |
|  |  | Culvert |  |  |  |  |  |  |
|  |  | Other (specify) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

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| Camera trap re-equipping survey (start) | | | | |
| Survey label\* | | Observer name/s\* | | |
|  | |  | | |
|  | | | | |
| Start date(dd/mm/yyyy) &  time (24 hr)\* | | End date(dd/mm/yyyy) &  time (24 hr)\* | | |
|  | |  | | |
| **Camera trap re-equipping** | | | | |
| Camrea Trap Deployment ID | | Re-equipping date | | |
|  | |  | | |
|  | | |  | |
| Re-equipping date (dd/mm/yyyy) | | | Observer name/s | |
|  | | |  | |
| **Camera trap status** | | | | |
| Operational status\* | Number of images | Replacement SD card no.\* | | Replacement battery type |
|  |  |  | |  |
|  | | | | |
| Camera trap mount | Bait station mount | Lure height | | Lure type |
|  |  |  | |  |
|  | | | | |
| Camera trap needs replacing □  Use camera trap deployment datasheet to record camera trap details | | Replacement camera trap number | | |
|  | | |
|  | | | | |
| Additional reequipping comments Include any equipment (other than batteries, SD cards or lures) that were replaced | | | | |
|  | | | | |

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| **CAMERA TRAPPING RE-EQUIPPING -DROP DOWN FIELD OPTIONS** | | | | | | | | |
| **Operational status** |  | **Replacement battery type** |  | **Camera trap mount** |  | **Bait station mount** |  | **Lure type** |
| Operational |  | NiMH rechargeable |  | Star dropper |  | Star dropper |  | Passive |
| SD card full |  | Lithium |  | Survey stake – steel |  | Survey stake – steel |  | Food |
| SD card failure |  | Alkaline |  | Survey stake – wood |  | Survey stake – wood |  | Olfactory |
| Hardware failure |  |  |  | Fence post – existing |  | Peg – steel |  | Audio |
| Batteries flat |  |  |  | Tree – trunk or stem |  | Peg – wood |  | Visual |
| Unknown failure |  |  |  | Tree – branch |  | Other (specify) |  | Other (specify) |
| Vandalism |  |  |  | Tree – felled log |  |  |  |  |
| Missing/theft |  |  |  | Tree – stump |  |  |  |  |
| Other (specify) |  |  |  | Tripod |  |  |  |  |
|  |  |  |  | Rock face |  |  |  |  |
|  |  |  |  | Rock pile |  |  |  |  |
|  |  |  |  | Building wall/ledge |  |  |  |  |
|  |  |  |  | Building post |  |  |  |  |
|  |  |  |  | Sign post |  |  |  |  |
|  |  |  |  | Bridge |  |  |  |  |
|  |  |  |  | Over/underpass |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  | Culvert |  |  |  |  |
|  |  |  |  | Other (specify) |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Camera trap retrieval survey (start) | | | |
| Survey label\* | | Observer name/s\* | |
|  | |  | |
|  | | | |
| Start date(dd/mm/yyyy) &  time (24 hr)\* | | End date(dd/mm/yyyy) &  time (24 hr)\* | |
|  | |  | |
| **Camera trap retrieval** | | | |
| Deployment ID\* | Operational status\* | | Number of images |
|  |  | |  |
|  | | | |
| Retrieval Comments | | | |
|  | | | |

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| --- |
| **CAMERA TRAPPING RETRIEVAL -DROP DOWN FIELD OPTIONS** |
| **Operational status** |
| Operational |
| SD card full |
| SD card failure |
| Hardware failure |
| Batteries flat |
| Unknown failure |
| Vandalism |
| Missing/theft |
| Other (specify) |