



# Harmony- M3

Now manages 67 birds and 7 animals at airports

<p><b>All New Harmony-M3</b></p> <p>The all new Harmony-M3 bio-acoustic bird dispersal equipment now caters for <b>67 problematic birds of Indian airports and seven animals</b>. It comes with automatic three season selection facility, night mode, and mobility.</p> <p>Use Harmony-M3 in the daytime to disperse <b>birds and stray dogs</b>, and in night for dispersal of <b>wild boar, Nilgai, Hares and night birds</b>.</p>	<p><b>Improvement in sound output</b></p> <p>The new generation circuitry handles the problem of signaling birds against noisy backgrounds. The aircraft noise has a flat characteristic between 1- 6 kHz, whereas, birds' hearing is sensitive in the range of 2 - 3 kHz, a bottleneck to effectively convey the alarm signals in noisy airport conditions. Harmony-M3 maximizes the chances of getting the message by increased signal to noise ratio.</p>	<p><b>Flexi-mode operation</b></p> <p>Harmony-M3 is fully compatible for vehicles that patrol the maneuvering and movement areas of airport. Smartly fits into the dashboard of operational vehicles and yet can be used as turf installable unit on runway shoulders. Harmony-M3 has flexi-mode of deployment for end-user convenience. Harmony-M3 is simple to operate, as simple as pushing a switch.</p>	<p><b>Field oriented</b></p> <p>6-30 hours of battery back-up. Sound level of 100dB at source. Built-in support: noise cancellation. Playback at 320kbps.</p> <p>Coverage: front 425m, back 80m (additional 50m with wind)</p> <p>Frequency range: 80Hz to 20,000Hz with Full range Visaton Speakers</p>
<p><b>Harmony-3 Dimension</b></p> <p>Device: 25.7 X16.9 X 26.7 cm</p> <p>Speakers: 12.7 X 13 X 20.6 cm</p> <p><b>Guaranteed to last long</b></p> <p>Harmony-M3 comes with 1-yr guarantee during which we will replace the faulty unit free of cost.</p>	<p><b>Capacity and Controls</b></p> <p>4 GB built-in flash NAND drives for reliability, loss-less playback encoding, durability and for instant standby to playback mode. One push button for mode selection (day, night or 24-hours), Automatic season detection, and day and night detection, volume control, LED indicators for battery, season, and charging/discharging.</p>	<p><b>In the box</b></p> <p>1 Harmony-M3 play unit                  2 External speakers with 90 m wire                  2 External speakers with 45 m wire                  1 Tool kit per airport                  5 Stands for 1 device and 4 speakers                  1 Grus Powerbank - 12v 75Ah, backup for 30 hr with housing case                  1 External Battery: 12v 26Ah, backup for 6 hr with housing case                  1 External battery charger                  1 Guarantee card and user manual</p>	<p><b>Our expertise</b></p> <ul style="list-style-type: none"> <li>- more than 20 years experience in ornithology and wildlife research</li> <li>- 18 years of experience in airport operation environment</li> <li>- empaneled experts in National Bird Control Committee of DGCA</li> <li>- we are a voluntary centre in prestigious ICAR project on higher vertebrate acoustics under 12<sup>th</sup> five-year plan</li> </ul>

**Free Customization to airports**

Harmony-M3 is customized to each airport's requirements so that maximum dispersal rate can be achieved. This is done free of cost. 25 airports are using Harmony-M3 in India and over 50 units have been customized. The dispersal rate achieved based on Inter Quartile Range (IQR) analysis are highest in India: SVP International Airport, Ahmedabad (Mar 2012): 66.5% Yelahanka airfield, Bangalore (Jun 2009): 82.3% Harmony-M3 covers 5-8 times more number of birds with 6-8 times more effectiveness to any product available in the market.

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| <b>Birds</b> | Alexandrine Parakeet<br>Ashy-crowned Sparrow Lark<br>Ashy Woodswallow<br>Ashy Prinia<br>Asian Koel<br>Bank Myna<br>Barn Swallow<br>Baya Weaver<br>Bay-backed Shrike<br>Black-billed Magpie<br>Black-winged Stilt<br>Black Drongo<br>Black Francolin<br>Black Kite<br>Brahminy Kite<br>Brahminy Starling<br>Cattle Egret<br>Chestnut-shouldered Petronia<br>Common Quail<br>Common Babbler | Common Crane<br>Common Myna<br>Crested Lark<br>Demoiselle Crane<br>Eurasian Collared Dove<br>Greater Short-toed Lark<br>Grey Francolin<br>Green Sandpiper<br>House Swift<br>House Crow<br>House Sparrow<br>Indian Grey Hornbill<br>Indian Peafowl<br>Indian Robin<br>Indian Silverbill<br>Jungle Babbler<br>Jungle Bush Quail<br>Jungle Myna<br>Large-billed Crow | Laughing Dove<br>Marsh Harrier<br>Malabar Crested Lark<br>Montagu's Harrier<br>Oriental Skylark<br>Paddyfield Pipit<br>Pallid Harrier<br>Plain Prinia<br>Purple-rumped Sunbird<br>Purple Sunbird<br>Rain Quail<br>Red Avadavat<br>Red-billed Chough<br>Red-rumped Swallow<br>Red-vented Bulbul<br>Red-wattled Lapwing<br>Red-whiskered Bulbul<br>Rock Pigeon<br>Rose-ringed Parakeet<br>Rosy Starling | Sarus Crane<br>Scaly-breasted Munia<br>Spot-billed Duck<br>Yellow-billed Babbler<br>Yellow-billed Chough<br>Yellow-wattled Lapwing<br>Wood Sandpiper<br>Zitting Cisticola |
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- Animals**
- Wild Boar
  - Nilgai
  - Elephants
  - Stray Dogs
  - Spotted Deer
  - Blackbuck
  - Black-naped Hare

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