

# Scarecrow Marina



*Intended for permanent installation at sites with bird problems and anywhere birds present a nuisance, safety or health hazard.*

**SCARECROW**  
**BIO-ACOUSTIC SYSTEMS**

Scarecrow Marina is intended for permanent installation at sites with a major bird problem – MARINAS, SHIPS, DOCKS, HARBOURS, BEACHES, OFFSHORE HELIDECKS, OIL & GAS PLATFORMS, PUBLIC BUILDINGS and PLACES, HISTORIC BUILDINGS – anywhere that birds present a nuisance, safety or health hazard.

As with all products of Scarecrow Bio-Acoustic Systems, Scarecrow Marina represents an entirely new approach to bird control and dispersal, humane and hygienic, for permanent installation.

Following controlled site trials in 1996/97, Scarecrow developed the Marina system to be a relatively simple, but unique, process to which birds, by experience, do not easily habituate.

Scarecrow is perhaps the largest specialist and the acknowledged leader in bio-acoustic bird control technology, the reason why their products are 'preferred' by airport and aerodrome operators and at other strategic sites where birds may present a hazard to safety.

Systems can be operated either from 235v AC 50/60Hz or 24V dc; often this d.c. supply is solar panel, or wind generator, derived.

Using fully automatic and "random" electronic processors, dispersal can take place without human intervention 24 hours a day, or from dawn to dusk as the location demands.

Importantly, natural bird calls played at natural levels are not intrusive and sometimes not even noticed in places where the public may be present; not so with any other, unnatural, sounds to which birds may eventually become habituated.

The Scarecrow Marina bird control system includes a paging microphone input which, when activated, will automatically interrupt any bird call in progress for routine or emergency announcements. A siren is also included, making the whole installation multi-use.

#### Important for a successful system

For permanently installed systems to be successful, loudspeaker layout, direction and positioning has to be designed for the individual site, considering such following factors, but without limitation – **1.** Geographic location **2.** Position relative to areas of population, beaches, the sea, industry etc. **3.** Prevailing wind direction **4.** Where, relative to the location, the sun rises and sets **5.** Where, within the site, birds most frequently gather **6.** North/South positioning **7.** Main bird species present, including any seasonal changes, if known **8.** Areas surrounding the site which may influence the presence of birds at the site e.g. beaches, landfill, food processing or handling, sanctuaries or other types of locations which birds may populate **9.** Architectural features of the subject structure/building/site that might encourage birds to visit, nest or roost.

THE PROVISION OF A SCALED SITE PLAN TO SCARECROW PLANNING ENGINEERS IS ESSENTIAL TO THE SUCCESS OF ANY SYSTEM DESIGN AND FUNCTION.

The site plan should include identification of the main office/administration area, a possible location for the central system electronics, and information about overhead lighting, lamp or cable 'stringing' posts for consideration as cost effective loudspeaker mounting positions if required. Our Scarecrow website includes a QUESTIONNAIRE to be downloaded, completed and returned with your site plan.

#### Total system support

For landfill and other similar applications, Scarecrow engineers prefer to have full knowledge of the site including geographical and local data, the extent of the bird control needs etc. and will always freely advise on all aspects of use of Scarecrow equipment to comply with Legislated demands.

In all cases Scarecrow is able to assist and co-ordinate the collection of all this data, including by site assessment visits.

On system delivery, Scarecrow engineers will provide an Installation Manual and identify the location of each loudspeaker specified and include a cabling specification so that a local competent electrician can complete system wiring, using Scarecrow further advice if required.

Standard Calls	Extra Cost Options	
Herring Gull	Silver Gull	Carrion Crow
Common Gull	Black Collared Starling	Song Thrush
Black Headed Gull	Jackdaw	Crested Myna
Lapwing	Jay	White Ibis
Starling	Blackbird	Canada Geese A
Rook	Sparrow	Canada Geese B
Crow	Oystercatcher	Canada Geese C
Pigeon	Yellow Legged Gull	Canada Geese D
Magpie	Ring Billed Gull	Red Winged Blackbird

#### Technical Specification – 1230 only

Supply requirements:	230v a.c 50/60HZ OR 24v d.c. 50VA, reverse polarity protected
Rated output:	a) 35 watts RMS. b) 600R line, OdBm.
Matching impedance:	a) LOW IMPEDANCE LOUDSPEAKER DRIVE: 2R/4R b) 50/100v lines, 35 watt load c) TO FEED ADDITIONAL AMPLIFICATION: 600R
Various power outputs can be supplied:	e.g. 1231, 120watt 100v line for major systems
User controls:	a) Override/test, manual start of auto sequence b) Sound level : rotary 12 position stepped attenuator c) Function: birds, aux 1, aux 2, microphone/remote (auxiliary inputs will accept external sound sources, maximum sensitivity 250mV), message, siren, auto sequence d) Birds: nine position; see above for standard distress calls and special calls library examples. e) Power ON/OFF
Front panel facilities:	Microphone input; 1210 press to talk.
Extra cost option:	Compatible headphone system monitor, disconnecting loudspeaker system when used, included with Marina 1230.
Auto sequence mode:	The bird calls selected to be automatically sequenced will be replayed randomly with a minimum time between plays of 20 minutes, max 60 minutes, NORMAL MODE; 15 minutes, max 40 minutes, REINFORCE; 5 minutes, max 20 minutes, SEVERE
Maximum bird calls per auto sequence:	Four
Sequence time:	45 seconds per bird call, totalling 3 minutes (4 calls)
Day/night operations:	Optional dawn/dusk, site adjustment for threshold using 1232 ambient light sensor.



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PO Box 66, Uckfield, East Sussex TN22 3ZR, England  
Telephone: +44 (0)1825 766363 UK Freephone: 0800 917 8488 Fax: +44 (0)1825 766361  
Email: sales@scarecrow.eu Web: www.scarecrow.eu

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