



# SME / Association / Researcher Profile Form



## FP7 Programme SECURITY Theme

Date (dd/mm/yyyy): 28/07/2009

Profile valid until (dd/mm/yyyy):

### Section 1 - Contact details

<b>Organisation Name</b> (full name)	Alfa Imaging S.A.
<b>Organisation acronym</b> (Abbreviation)	ALFA
<b>Address</b>	C/General Pardiñas 91 1º dcha
<b>Postal code</b>	28006
<b>City</b>	Madrid
<b>Country</b>	Spain
<b>www address</b>	www.alfaimaging.com

<b>Contact person:</b>	
<b>Title</b>	Dr
<b>First Name</b>	Naomi
<b>Family Name</b>	Alexander
<b>Telephone</b>	+34918830457
<b>Fax</b>	+34918827892
<b>E-mail</b>	nalexander@alfaimaging.com

### Section 2 – Type of organisation

#### If you are an Enterprise

<b>Enterprise type</b>	<input checked="" type="checkbox"/> Private <input type="checkbox"/> Non profit	<b>Is your Company a Small-Medium sized Enterprise (SME)?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	<input type="checkbox"/> Public <input type="checkbox"/> Other	<b>if YES, Number of Employees</b>	<input checked="" type="checkbox"/> < 10 <input type="checkbox"/> > 10 and < 50 <input type="checkbox"/> < 250
<p>According to Article 2 of the annex of Commission Recommendation 2003/361/EC of 6 May 2003, which applies from 01 January 2005, an SME (Micro, Small or Medium-sized Enterprise) is an enterprise which:</p> <ul style="list-style-type: none"> <li>• has fewer than 250 employees,</li> <li>• has an annual turnover not exceeding 50 million euro, and/or</li> <li>• an annual balance-sheet total not exceeding 43 million euro.</li> </ul> <p><a href="http://europa.eu.int/comm/enterprise/enterprise_policy/sme_definition/index_en.htm">http://europa.eu.int/comm/enterprise/enterprise_policy/sme_definition/index_en.htm</a></p>			
<b>Owned by a non SME:</b>		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	



# SME / Association / Researcher Profile Form



## FP7 Programme SECURITY Theme

**Description of the organisation (max 1.000 characters):**

Alfa Imaging S.A. was founded in 2006 by GATE S.A. and a group of former researchers from the University of Reading (UK) who have, during the last few years, developed millimetre-wave imaging systems for prestigious organizations such as QinetiQ, NASA and Smiths Detection.

As a result of this experience Alfa Imaging has patented a new millimetre-wave scanning system, conceptually very advanced and with many advantages over its predecessors, such as its folded optics that allow an outstanding resolution, at the same time maintaining a small footprint. This development has been backed by the Spanish Ministries of Industry and Defence. Alfa Imaging is also participating in a large national consortium whose project has recently been granted by the Ministry of Science and Technology (CENIT Program).

Alfa Imaging's main activity is the design and development of millimetre-wave imaging systems.

### If you are an Association

<b>Association type</b>	<input type="checkbox"/> SME	<input type="checkbox"/> Industrial	<b>Sector of activity</b>	
	<input type="checkbox"/> Cultural	<input type="checkbox"/> Civil society		
	<input type="checkbox"/> Other:			

**Description of the association (max 1.000 characters):**

### If you are a research organisation

<b>Research Organisation type</b>	Research Organisation ( <input type="checkbox"/> Private <input type="checkbox"/> Public)
	High Education School / University / Institute ( <input type="checkbox"/> Private <input type="checkbox"/> Public)
	<input type="checkbox"/> Other, please specify:

**Description of the organisation (max 1.000 characters):**



# SME / Association / Researcher Profile Form



## FP7 Programme SECURITY Theme

### Section 3 – Sector of interest

<b>Further information on the sector of interest</b> (max. 500 characters)	Alfa Imaging is an excellent potential partner in consortia where the detection of hidden weapons, explosives and IEDs at stand-off distances in different environments such as public and private infrastructures is one of the main objectives. Adverse weather imaging for border control is another application area for this technology.
<b>Research topic according to the work programme</b>	Increasing the Security of infrastructures and utilities. Intelligent surveillance and enhancing border security.

### Section 4 - Description of your expertise

<b>Description of the expertise</b> (max 2.000 characters)	Alfa Imaging is focussed on the development of millimetre-wave imaging systems. We can contribute with our expertise to test any type of millimetre-wave receiver, design and provide a modular and adaptable system for a broad range of scenarios and undertake tests. Radiation in the millimetre-wave and the lower end of the Terahertz range has the useful property of being able to penetrate clothing. Thus using imaging systems at these frequencies allows for the detection of weapons, explosives and IEDs, both metallic and non-metallic, hidden on a person. This is achieved by detecting the naturally emitted and reflected radiation at these wavelengths which varies depending on the material and its temperature. In addition, certain bands in the millimetre wavelength range have very high atmospheric transmission (forming the so-called atmospheric windows) and therefore also enable stand-off detection and imaging through adverse weather conditions such as fog and clouds, as well as dust and smoke.
<b>Keywords describing the expertise offered</b> (please complete as required)	1. Millimetre-wave imaging 2. Explosive detection 3. Weapon detection 4. IED detection 5. Adverse weather imaging

### Section 5 – Your previous experience in FP projects

<b>Former participation in FP European projects?</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---



# SME / Association / Researcher Profile Form



## FP7 Programme SECURITY Theme

<b>If YES</b> (please specify)	Project title: Acronym:
<b>Activities performed</b>	<input type="checkbox"/> Research <input type="checkbox"/> Demonstration <input type="checkbox"/> Training <input type="checkbox"/> Technology <input type="checkbox"/> Dissemination <input type="checkbox"/> Management <input type="checkbox"/> Other:
<b>Please describe briefly your role in the project</b> (max. 700 characters):	

### Section 6 – Expectations

<b>Term commitment</b>	<input checked="" type="checkbox"/> Short (< 1 year) <input checked="" type="checkbox"/> Medium (1 to 3 years) <input checked="" type="checkbox"/> Long (more than 3 years)
<b>Commitment offered</b>	<input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Demonstration <input type="checkbox"/> Training <input type="checkbox"/> Technology <input type="checkbox"/> Dissemination <input type="checkbox"/> Management <input type="checkbox"/> Other:
<b>Proposed role in the project</b>	<input type="checkbox"/> Coordinator <input checked="" type="checkbox"/> Work package leader <input checked="" type="checkbox"/> Partner <input type="checkbox"/> Other role:
<b>Expected results for your organisation</b> (max 500 characters)	Alfa Imaging is one of the few manufacturers of millimetre-wave scanning devices within Europe and as such are extremely keen to test new receiver technology, work on the improvement of optical/electronic components, study and work on new applications for their technology, work on sensor fusion/system integration (system of systems)...

### Section 7 – International cooperation

<b>Are you interested in international cooperation?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>If YES, Please specify the geographical area(s) of interest</b>	<input checked="" type="checkbox"/> Mediterranean area <input checked="" type="checkbox"/> Balkan area <input checked="" type="checkbox"/> Russia and NIS (Newly independent States) <input checked="" type="checkbox"/> Asia



# SME / Association / Researcher Profile Form



## FP7 Programme SECURITY Theme

	<input checked="" type="checkbox"/> Africa <input checked="" type="checkbox"/> South America <input type="checkbox"/> Other:
--	--

### Section 8 – PPT or PDF Presentation

Profile .ppt/.pdf presentation enclosed	<input type="checkbox"/> Yes (Please enclose the file!!) <input checked="" type="checkbox"/> No
---	--

In respect to the Directive 2002/58/EC of the European Parliament and of the Council of 12 July 2002 Right to the Protection of Personal Data, I authorize the use of my personal data

PLEASE COMPLITE AND RETURN IT TO: