

# **ALTIS**

**Mobile Phones Civil & Military Denial Systems**

AMS Defence Integrated Systems

## **ALTIS MOBILE PHONES CIVIL & MILITARY DENIAL SYSTEMS**

ALTIS is the general name for AMS series of mobile phones denial systems. Even for the most demanding application AMS will provide customer the appropriate ALTIS configuration.

ALTIS systems can be configured to work on every mobile system existing today around the world (GSM, PCS, DCS, UMTS2100, UMTS450 etc.) Since the systems are modular, they can be configured to operate simultaneously on all mobile systems existing in an area, interrupting communications of all the mobile phones at the range of ALTIS coverage.

They offer options for Low, High and Very High output power levels, which is adjustable for best results within the designated area and minimum disturbance outside this area.

Antennas configuration offers options for azimuth coverage of 360° (omnidirectional), sectored (90° or 180°) and parabolic dish with log-periodic feed for high gain long range coverage.

All systems can be installed at permanent locations or on any type of vehicles. Option for portable system is also available, powered from built-in battery.

### **ALTIS-LPC**

Low power ALTIS system focused mainly for civil and government use.

#### **APPLICATIONS**

##### **Civil use**

Schools & Universities • Theatres & Cinemas • Company Meeting Rooms • Churches

##### **Government Installations**

Prisons • Courts • Government facilities • Sensitive locations

### **ALTIS-OB**

Low power ALTIS system specially designed to cut-off all mobile communications within dangerous areas in oil-stations. Installed in an IP-65 plastic box, is appropriate for outdoors use in explosive gas environments. Its 180° radiation pattern directs all microwave energy towards the targeted mobile phones around the oil pumps area while allowing communications inside the oil-station shop building.

#### **APPLICATIONS**

• Oil Stations and other gas explosive sensitive areas

### **ALTIS-HP**

Designed to cover large indoors or outdoors areas for civil and government or military use. With external high gain dish antennas it can block all mobile communications in remote areas where electromagnetic energy is focused. Typical scenario in military is blocking foe communications and for police, to block mobile communications within a building from a secure distance. It can also be used with omnidirectional or sector antennas for mobile phone blocking in large areas like prisons or military installations and to protect vehicles against cellular activated bombs.

#### **APPLICATIONS**

• Prisons • Bomb deactivation  
• VIP vehicles • Military facilities  
• Police forces

## ALTIS-VHP

High power system for government and military use, when used with parabolic dish antennas with 30dBi gain, its Equivalent Radiated Power (ERP) exceeds 250KW. Main applications are military and police remote cellular communications blocking and VIP protection against bomb activation.

### APPLICATIONS

- Military
- Government
- Police

## ALTIS Systems Specifications

SPECIFICATIONS	ALTIS-LPC	ALTIS-OB	ALTIS-HP	ALTIS-VHP
<b>RF TRANSMISSION</b>				
Max RF output power per band (Watts)	1.5	1.5	40	250 **
Min RF output power per band (Watts)	0.01	0.01	0.5	1.0
Power adjust steps of 0.5db	64	64	64	64
Signal Generator	PLL synthesized	PLL synthesized	PLL synthesized	PLL synthesized
Maximum number of cellular systems blocked simultaneously	4	4	4	4
Standard installed Antennas	Internal with 360° azimuth coverage	Internal with ±90° azimuth coverage	External, any type	External, any type
External Omnidirectional Antennas (~2dBi)	-	-	Yes	Yes
External Directional Antennas Options 3dBi, 6dBi, 8dBi	-	-	Yes	Yes
External High Gain Parabolic Dish Options 16dBi, 20dBi, 25dBi, 34dBi, 38dBi	-	-	Yes	Yes
External Antennas Connectors	-	-	N-type	N-Type
<b>CELLULAR SYSTEMS</b>				
GSM, DCS, PCS, UMTS2100, CDMA-450 (also known UMTS-450)	Yes, will be factory configured to simultaneously cover all systems in the country of installation	Yes, will be factory configured to simultaneously cover all systems in the country of installation	Yes, will be factory configured to simultaneously cover all systems in the country of installation	Yes, will be factory configured to simultaneously cover all systems in the country of installation

Voice & Data Interface Standards GSM, GPRS, EDGE, TDMA, CDMA, UMTS, UMTS+	Yes	Yes	Yes	Yes
<b>REMOTE CONTROL</b>				
Infrared Remote Control	Yes	Yes	Yes	Yes
Two Wire Enable/Disable Remote Control	Yes	Yes	Yes	Yes
Local Area Network, TCP/IP	Option	Option	Yes	Yes
USB	-	-	Yes	Yes
<b>POWER SUPPLY</b>				
110/220VAC or 12/24VDC	Embedded into system, 25W consumption (four bands operating)	Embedded into system, 25W consumption (four bands operating)	External, 500W consumption (four bands operating)	For standard 250W per band configuration, 2KW total consumption
<b>PHYSICAL</b>				
Dimensions (mm)	280X200X76	500X250X140	19-inch rack standard box, 4U height, additional 2U for power supply	19 inch rack, height 24U for system and power supply
Weight (kg)	1	4	18	55
<b>ENVIRONMENTAL</b>				
Operating Temperature (°C)	-10 to +65	-35 to +65	-40 to +85	-40 to +85
Relative Humidity	90%	98%	98%	98%

\*\* Higher output power available for special applications.

### Media Contact

Anastasios Garetsos  
 Tel: +30 210 4838442  
 Fax: +30 210 4838446  
 a.garetsos@ams-mw.com

### AMS Defence Integrated Systems

25<sup>th</sup> Martiou 2, Tauros  
 Athens, Greece  
 Tel: +30 210 4838442  
 Fax: +30 210 4838446  
 www.ams-mw.com  
 sales@ams-mw.com