Sonic weapon deters would-be aggressors Developed after al-Qaeda's 2000 attack on the USS Cole off Yemen, the Long Range Acoustic Device (LRAD) is a loudhailer and warning system that enables military and police authorities to control crowds and clear buildings, while luxury cruise liners Reverse can ward off pirate attacks side of dish Volume control: High-pitched On/off warning tone or message LRAD switch 151dB at 1 metre, full power 105dB at 500m 95dB at 1,000m (Smoke alarm 80-90dB) Maximum effective range: 300m over land. 500m over water Microphone: For voice communication _ MP3 player: Stores and plays back messages and warning tones -Phraselator: Translates spoken Weight: 20kg messages into different languages Diameter: 84cm **CROWD CONTROL** Thickness: 13cm 1 Operator: 2 Speaker dish: Unaffected Emits tightlybehind dish focused sonic Standard ____ "beam" at speaker 15-30° angle **LRAD** ((((((((speaker 5 Outside beam: People are unaffected 🖟 4 Target: Waves combine when they meet object or person. Original 3 Sound waves: sound heard at Two ultrasonic waves that point with travel at slightly Warning tone can cause almost no loss different frequencies in clarity nausea or fainting © GRAPHIC NEWS Source: American Technology Corporation