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(21) International Application Number: PCT/US97/14803 (22) International Filing Date: 25 August 1997 (25.08.97) (30) Priority Data: 08/702,913 26 August 1996 (26.08.96) US (71) Applicant: ULTRAK, INC. [US/US]; 1220 Champion Circle No. 100, Carrollton, TX 75006-6849 (US). <i>Pls refer to PF 23.</i> (72) Inventors: COOPER, Alan, Neal; 225 Plantation Drive, Coppell, TX 75019 (US). BAUERLE, David, W.; 218 Fieldcrest Loop, Coppell, TX 75019 (US). FRITZ, Matthew, John; 7816 Willow Hill Court #209, Dallas, TX 75230 (US). (74) Agents: BACON, Jeffery, E. et al.; Jenkins & Gilchrist, P.C., Suite 3200, 1445 Ross Avenue, Dallas, TX 75202 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	

(54) Title: **MODULAR MULTIPLEXING SYSTEM**

(57) Abstract

A display and control module (100) sends synchronization signals and camera display codes to a loop multiplexer module (200) and a home run multiplexer module (300). The loop multiplexer module has a plurality of cameras coupled to a loop multiplexer unit (210). The loop multiplexer unit controls the synchronization and selection of video from the cameras for sending to the display and control module. The home run multiplexer includes a home run multiplexer unit (310) coupled to a plurality of coaxial cables, each coaxial cable having at least one video camera (321-322, 331, 341-343). The home run multiplexer unit receives the synchronization and control signals from the display and control module and uses those signals for synchronizing and selecting video images from one of the plurality of cameras for sending to the display and control module. The display and control module uses the video signals from the loop multiplexer module and the home run multiplexer module to display on a display.

