atlantic cine equipment

210 west 29th street, baltimore, md 21211
phone: 212-944-0003, 410-243-4181
fax: 443-524-0210
new york, ny ■ baltimore, md/washington, dc
www.aceeast.com

A C E MICROMOTE SYSTEM OVERVIEW

Remote robotic pan and tilt head

Two years in development and just months on the market, the ACE MicroMote system is already fast becoming the choice of the leading directors at the network level. The head is very robust for it's size and is designed to meet the rigorous demands of on air work. Very high panning and tilting speeds can be achieved approaching 180/2 sec. extremely slow, controlled moves, are also easy to perform. The head is small enough to hold in your hand and can handle cameras weighing up to ten pounds. A convenient 5/8" receiver allows easy, fast mounting in the upright or under-slung position on any standard 5/8" spud. A wide assortment of mounting hardware is supplied with each rental, and special mounts can be fabricated to suit the needs of the project.

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Operating Desk

Up to four heads (cameras) can be controlled by one operator from each desk. The operator can switch control between the four heads at the push of a button. Lockup of the head takes about one second. The operating controls are ergonomically designed for on-air moves and give the operator precise control of pan, tilt, zoom and focus. Pan and tilt are accomplished using a pressure sensitive joystick, zoom with a pressure sensitive rocker switch and focus with a weighted wheel. There is also a control for iris, which is duplicated on the paint system in the truck. The desk has a custom built serial link, which allows pan, tilt, zoom, focus and iris to be controlled from up to 2.5 miles on a dry pair (twisted pair) and farther on coax or fiber. Each of the four heads can be controlled via RF at the flick of a switch.

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Cameras

Our current system is designed around the Toshiba IK-TU40A 3 chip “Ice Cube” camera with a Fujinon 14:1 zoom lens (optional fixed focal length lenses are also available). Each camera/lens is equipped with a Fuji wide-angle adapter. Complete camera specs are available on the Toshiba web site. The TU40A is a 3 chip, 1/3” IT CCD with 750 TV lines of resolution. It has composite, component, and RGB video out from the CCU, which can be operated up to 40’ from the camera head (lens block).

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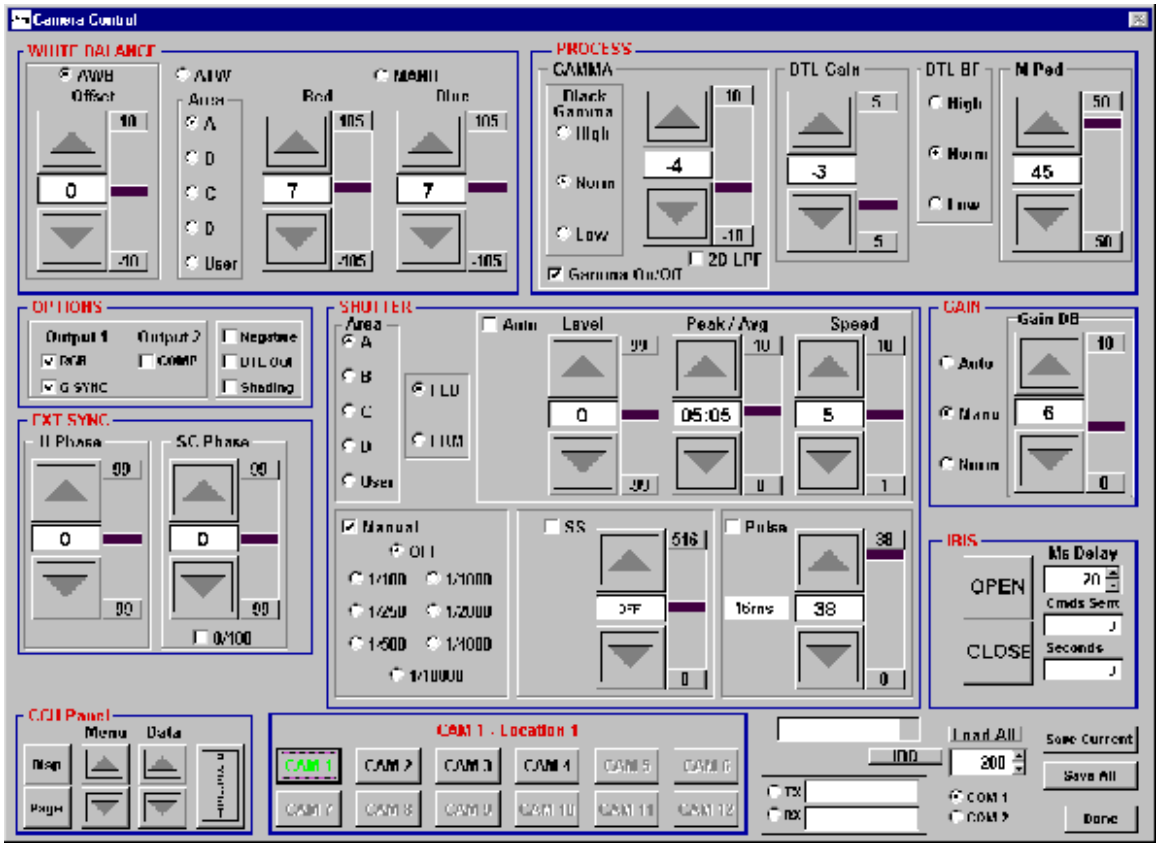
Paint

A custom designed PC paint program was produced by ACE to give the video engineer complete control of up to 12 cameras. The program gives the video engineer multiple pre-sets for each camera when chipping the camera, and a separate screen of the critical controls used for live on air adjustments including white balance, gain, gamma, M ped, and iris. Paint is controlled over twisted pair, up to 6000' from the PC and can be operated from a touch screen or laptop.



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CABLE REQUIREMENTS

Two wires (twisted pair, coax, CAT 5) are needed for data between the Camera CCU and the Operators Control Desk (max distance is 2.5 miles) also 2 wires are needed for Paint between the Camera CCU and the Touch Screen Computer (usually in the truck, max distance is 6000'). Video runs on RG-6 Digital Coax (Belden 1694 specs out the best) between the CCU and the Truck (max distance is 900' without repeater). We will need A/C at the Desk and the CCU. CCU can be located up to 40' from the Lens Block/Remote Head.