

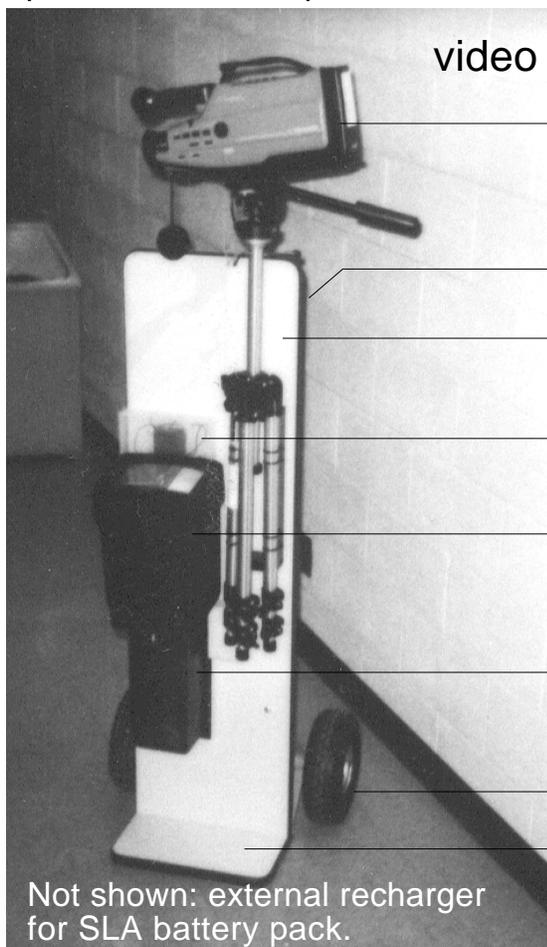
A better solution for educational field video production

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Abstract: Video production in classrooms has always been a technical challenge. Trying to set up tripods, deploy power and microphone cords, negotiate classroom furniture, and preform set up and tear down of video production equipment is time consuming and awkward. Compounding these problems is the issue with classroom scheduling, in that , rooms scheduled back to back leave little opportunity for non-disruptive advanced setup or subsequent tear down.

I designed and constructed a self contained field video production system that addresses these issues and more. Build upon an inexpensive two wheel parcel dolly, all active equipment used for common field video production has been ergonomically arranged and anchored. This fully integrated system includes the convenience of a battery powered 10" color monitor / viewfinder and the added benefits of a pre-configured wireless microphone system. The production cart is equipped with long duration 12 volt DC SLA battery power source making its use totally cordless. When not in use all equipment is stored as-is and in place making the system ready to use under short notice.

Under normal operating conditions the system is wheeled to the rear of a classroom, parked, turned on, pointed towards the subject, and recording can commence. The small footprint of the system and agile pneumatic tires make negotiating crowded classrooms or even stairways easy. Tear down and removal from a classroom is equally easy, and the compact prearranged design require less storage space that the components would require if stored individually.



video production cart

Panasonic Professional VHS Camcorder

On board 170Mhz wireless microphone receiver.

Bogen Tripod with Fluid Head, attached with straps.

Storage for Wireless Microphone Accessories

Sony 10" color monitor powered from on board battery pack.

Twin 12v 7amp hour SLA batteries for long duration cordless operation.

Pneumatic tire two wheel steel frame dolly rated at 600lbs capacity.

Laminated wood substrate attached to dolly for appearance and mounting of subsystems.

Not shown: external recharger for SLA battery pack.