

Developed exclusively for JVC's GY-HM790 ProHD camera, the KA-F790 fiber optic multiplexing system replaces the bulky multicore cables with durable, lightweight fiber cable. Ideal for production studios, OB Vans, sports, concerts, or worship installations, fiber provides robust two-way communication between cameras and control systems.

The custom designed camera back transceiver module attaches directly to the GY-HM790 body using a hidden 68-pin connector and enables broadcasters to leverage the GY-HM790's full studio functionality in the field. It connects the camera via SMPTE hybrid (powered) or tactical (unpowered) fiber optic cable to a CopperHead base station typically located in a control room, fly-pack or OB van.



The system simultaneously transports bidirectional digital (SDI or HD-SDI) and analog (NTSC or PAL) video, as well as all two-way camera control, audio, video, data, sync, tally/call, prompter, and intercom signals between the camera head and the remote CopperHead Base Station. The lightweight, 1 RU CopperHead Base Station is easily integrated into any studio, mobile truck, or portable flypack — and plugs directly into a facility's switcher, router, intercom, and house sync systems.

A typical fiber system consists of:

- GY-HM790 camera & accessories
- Camera-back transceiver module
- Fiber Cable (powered or unpowered)
- CopperHead Base Station (1 rack unit)
- Remote operation panel

GY-HM790 systems are offered in various configurations depending on your specific needs. Generally, there are two types of cable:

Tactical fiber is highly durable, smaller, and is the least expensive. Tactical is military spec, battlefield proven and requires local power at the camera head. **SMPTE Hybrid Fiber** adds power capability and can deliver up to 100W of power to the camera up to 1.2 miles from the base station. Both cables are immune to interference.

KA-F790 Fiber transceiver mounted to GY-HM790 (close up)



KA-F790 Fiber transceiver mounted to GY-HM790 (full camera)



KA-F790 Fiber transceiver mounted to GY-HM790 (full studio rig)



KA-F790 Fiber transceiver mounted to GY-HM790 (base station)

