

FE-100A Series



Ikegami

FE-100A Series

Fiber Extension Adapter For HDTV Camera Recorder

The FE-100A transports HD-SDI, camera control, intercom and audio signals between a camera recorder and a base station via a long distance hybrid fiber cable. The camera adapter docks the battery bracket on a camera recorder for ENG/SNG/ETP applications.



Up to 2 km with a local power, or up to 500 m with power transmission:

The distance between the base station (FE-B100A) and the camera adapter (FE-C100A) can be up to 2 km with a local power supply at the camera, or up to 500 m when power is transmitted from the base station to the camera adapter. (The maximum distance depends upon power consumption of the camera.)

Video trunk channel:

One channel of video trunk signal can be transmitted from the base station to the camera adapter. This allows for return video or QTV applications.

ENG/SNG/ETP operability:

- A remote camera control port on the base station.
- 1 channel intercom communication line including receiving volume control, and microphone ON/OFF.
- 1 channel PGM audio available from the base station to the camera adapter.
- Embedded audio: The base station has 2-ch analog audio de-multiplexers. The camera adapter has 2-ch multiplexers.
- Genlock (optional).
- Ways to power: The base station for 120 VAC or +12VDC, the camera adapter for power transmission from BS or a local 12VDC power supply (or a 14VDC battery on the bracket)

Safety Operation:

- The optical signal level detector with the alarm indicator will diagnose the fiber connections between the base station and the camera adapter.
- The base station, FE-B100A detects the correct camera adapter model and prevents to transmit the power when a different camera adapter model is connected.

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■ Specifications (Common)

Mainstream transmission signal-----	HD-SDI SMPTE292M 1080i 1.485/1.001G, 1 channel.
Video trunk signal-----	HD-SDI SMPTE292M 1080i 1.485/1.001G or NTSC VBS, 1 channel.
Camera cable connector-----	Tajimi OPS or Lemo 3K Series.
Transmission distance-----	500 m (when power is transmitted to CA+CAM), 2,000 m (CA+CAM are powered locally)
Temperature range-----	-10°C to +45°C (Humidity range 30% to 90%)

■ FE-C100A Camera Adapter

Input signals:

Mainstream transmission-----	HD-SDI SMPTE292M 1080i 1.485/1.001G, 1 channel.
Audio-----	0dBm, 2 channels (XLR-5pin Female)
Intercom-----	-60dBm, 1 channel (XLR-4pin Male)
Camera control-----	RS422, 1 channel

Output signals:

Return video (Digital)-----	HD-SDI SMPTE292M 1080i 1.485/1.001G
Return video (Analog)-----	HD-Y (HD Return) or NTSC VBS (SD Return)
Genlock reference (optional)-----	HD tri-level sync
Audio program-----	0dBm, 1 channel (XLR-3pin Male)
Intercom-----	+10dBu max. (XLR-4pin Male)
Camera control-----	RS422, 1 channel (PRC05-8pin Male or MXR-8)
Camera power supply-----	+12 VDC, 45W max. via the V-wedge bracket
Dimensions (WxHxD)-----	130 mm x 205 mm x 80 mm (excluding projections)
Weight-----	About 2.3 kg, or 5.06 lbs.



■ FE-C100A Camera Adapter



■ FE-B100A Base Station

■ FE-B100A Base Station

Input signals:

Return video (HD RET)----- HD-SDI SMPTE292M 1080i 1.485/1.001G
Return video (SD RET)----- NTSC VBS
Genlock reference (optional)----- HD tri-level sync or SD-BBS (NTSC)
Audio program----- 0dBm, 1 channel
Intercom----- +10dBu max. (XLR-4pin Male)
Camera control----- RS422, 1 channel (PRC05-8pin Female)
Auxiliary trunk*----- RS422, 1 channel (D-SUB25pin Female) *For FE-140SE

Output signals:

Mainstream transmission----- HD-SDI SMPTE292M 1080i 1.485/1.001G, 4 channels
Audio----- 0dBm, 2 channels (XLR-3pin Male)
Intercom----- -60dBm, 1 channel (XLR-4pin Male)
Camera control----- RS422, 1 channel (PRC05-8pin Female)
Auxiliary trunk*----- RS422, 1 channel (D-SUB25pin Female) *For FE-140SE
Dimensions (WxHxD)----- 214.6 mm x 77.5 mm x 351.5 mm (excluding projections)
Weight----- About 4.4Kg, or 9.68 lbs.

■ Accessories (optional)

- Hard carrying case –A: For FE-C100A camera adapter
- Hard carrying case –B: For FE-C100A camera adapter and FE-B100A base station
- Rack mounting hardware: For rack-mounting two FE-B100A base stations



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