

FOR-A Company Limited

World Headquarters

3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan
Tel: +81 (0)3-3446-3936 Fax: +81 (0)3-3446-1470

FOR-A America Corporate Office

11125 Knott Ave., Suite #A, Cypress, CA 90630, U.S.A.
Tel: +1 714-894-3311 Fax: +1 714-894-5399

FOR-A America East Coast Office

1065 Avenue of the Americas, Suite #1701A, New York, NY 10018, U.S.A.
Tel: +1 212-861-2758 Fax: +1 212-861-2793

FOR-A America Distribution & Service Center

2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.
Tel: +1 352-371-1505 Fax: +1 352-378-5320

FOR-A Corporation of Canada

425 Queen St. W. #211, Toronto, Ontario M5V 2A5, CANADA
Tel: +1 416-977-0343 Fax: +1 416-977-0657

FOR-A UK Limited

UNIT C71., Barwell Business Park, Leatherhead Road, Chessington Surrey, KT9 2NY, U.K.
Tel: +44 (0)20-8391-7979 Fax: +44 (0)20-8391-7978

FOR-A Italia S.r.l.

Viale Europa 50 20093, Cologno Monzese (MI), Milan, ITALY
Tel: +39 02-254-3635/6 Fax: +39 02-254-0477

FOR-A Corporation of Korea

801 Dangsang Bld., 53-1 Dangsang-Dong, Youngdeungpo-Gu, Seoul 150-800, Korea
Tel: +82 (0)2-2637-0761 Fax: +82 (0)2-2637-0760

<http://www.for-a.com/>

HDV and HDV logo are trademarks of Sony Corporation and Victor Company of Japan, Limited (JVC).

© 2006 FOR-A Company Ltd. FOR-A is a registered trademark of FOR-A Company, Ltd.
Design and specifications subject to change without notice. Printed in Japan. 0603KM2A

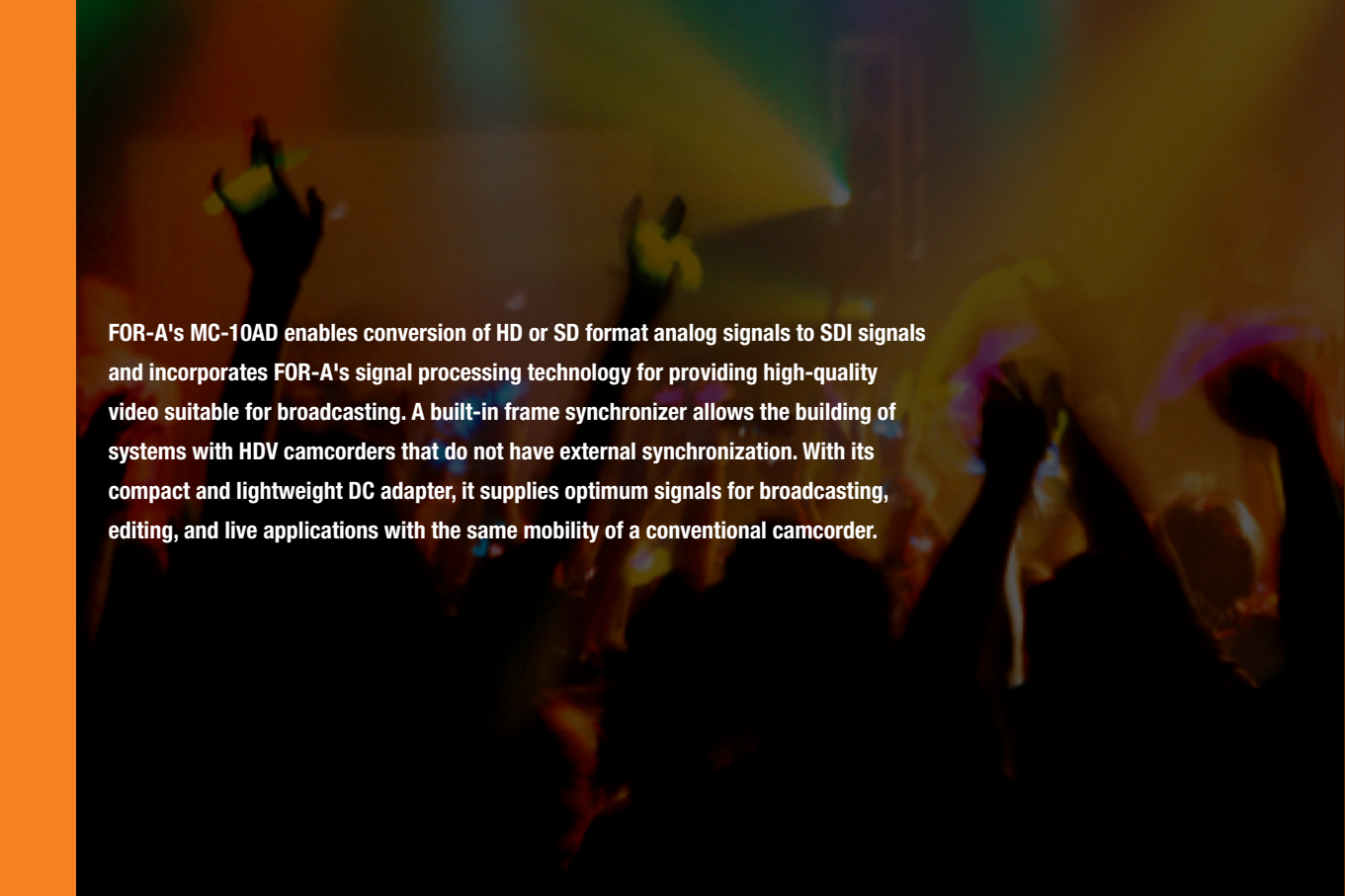
FOR.A[®]
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY

HDV for LIVE

The Best Gear for HDV Camcorder
LIVE Applications



HD/SD AD Converter
MC-10AD



FOR-A's MC-10AD enables conversion of HD or SD format analog signals to SDI signals and incorporates FOR-A's signal processing technology for providing high-quality video suitable for broadcasting. A built-in frame synchronizer allows the building of systems with HDV camcorders that do not have external synchronization. With its compact and lightweight DC adapter, it supplies optimum signals for broadcasting, editing, and live applications with the same mobility of a conventional camcorder.

MC-10AD Main Features

High-Quality AD conversion:

Conversion of HDV camcorder analog component output (D terminal) to SDI signals
YPBPR or GBR (BETACAM or SMPTE level) input
10-bit internal processing for high-resolution conversion
*This device does not include an up/down-converter.

Supported Formats:

HD: 1080i/60 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50
SD: 525i/60 (NTSC), 625i/50 (PAL)

Built-in Frame Synchronizer:

Supports external synchronization (bypass also possible)

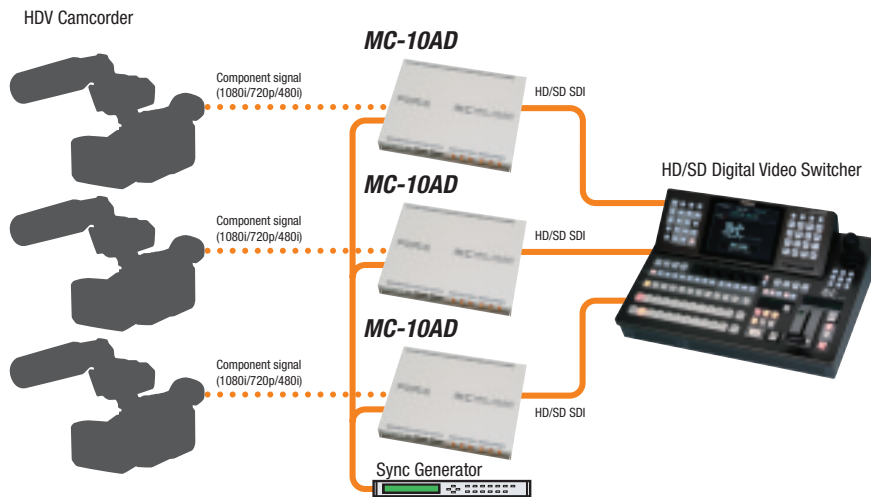
Built-in Level Adjustment Function:

Level adjustment and offset function available
Enables easy color correction and color matching on-site when using multiple cameras

Compact, DC Operation:

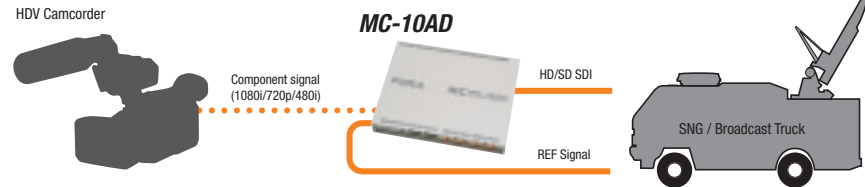
1RU Half size compact design
+12VDC operation
Supported battery operation

Usage in live applications



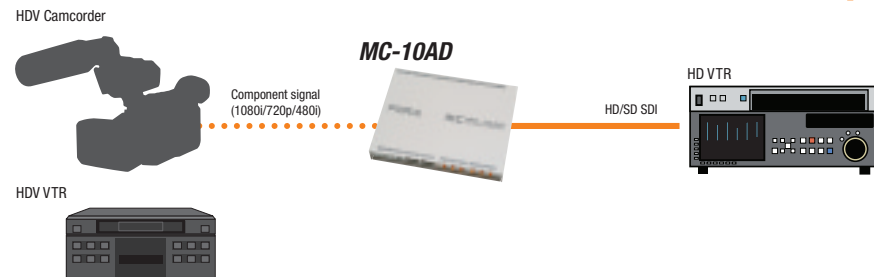
Connecting the analog component output of an HDV camcorder to the MC-10AD provides output of HD-SDI or SD-SDI signals in genlock mode. This enables switching operations on-site. A level adjustment function is also provided to enable easy color adjustment when using multiple cameras. This allows effective usage of an HDV camcorder as a live camera without any major changes to fieldwork on-site.

Usage at ENG sites



When the MC-10AD is used, HDV camcorder and other output can be transmitted to SNG vehicles and ENG vehicles and used as broadcast-quality digital signals. The MC-10AD can also run on a battery when used outdoors.

Usage for linear editing

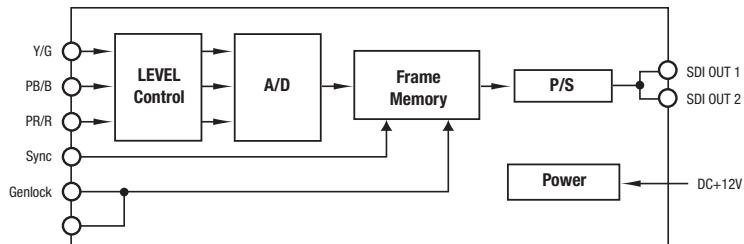


HDV camcorder and HDV VCR output can be connected to HDCAM, DVCPRO HD, or other broadcast VCR to enable copying to high-compatibility tape formats.

Specifications

Standards	HD: 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50 SD: 525/60 (NTSC), 625/50 (PAL) (selectable for dip-switch)
Quantization	10-bit, internal process: 10-bit
Signal Inputs	Selectable for dip-switch
YPbPr/RGB	Y: 1.0Vp-p, PbPr or GBR: 0.7Vp-p (BETACAM or SMPTE level) 75Ω, 1ea., BNC
SYNC	Dual-level sync: 0.3Vp-p or Tri-level sync: 0.6Vp-p, 75Ω, 1ea., BNC
GENLOCK IN	BB: 0.429Vp-p (NTSC)/0.45Vp-p (PAL) or Tri-level sync: 0.6Vp-p, 75Ω or loophthrough, 1ea., BNC
Signal Outputs	HD-SDI: 1.485Gbps or SD-SDI: 270Mbps, 75Ω, 2ea., BNC Depending on input signal
S/N Ratio	Over 56dB
Level Adjustable Function	Level adjustment: Approx. -3dB - +3dB Black Level adjustment: Approx. -200mV - +200mV
Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
Power / Consumption	+12VDC, 4-pin XLR (male) / Approx. 9.6W
Dimensions / Weight	216 (W) x 30 (H) x 170 (D) mm EIA1RU half size / Approx. 1.5kg
Accessories	Operation manual, AC cord, AC cord (for AC-adopter)
Option	Single mount or dual mount rack brackets

Block Diagram



External Dimensions

