



Hi Motion II

Ultra Slow Motion

NAC Hi-Motion II Just Stunning

This is the evolution of the 62nd EMMY Award winning Hi-Motion technology.

The NAC Hi-Motion product family is the only HD Ultra Slow Motion camera systems employing 3-chip image capture technology.

Since its development in 2003, the nac Hi-Motion has been embraced by sports broadcasters around the world, having been featured in the Olympic Games 2008 & 2010, World Cup Football 2006 & 2010, and the Asian Games, as well as Golf, Football, Tennis, Cricket, Boxing, Rugby, Volleyball, Basketball, Hockey, Baseball, Swimming, Motor Racing, and much, much more.

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Main Features

Image Quality

3-chip sensor

The Hi-Motion II camera is equipped with a B4 mount and a 3-chip CMOS sensor block generating native 1920 X 1080 pixels without the need for any adapters.

Paint Function

The Hi-Motion II Operation Control Panel (OCP) allows the user flexibility manipulating the camera's image quality, using a look and feel identical to that of standard HD broadcast cameras. With Industry standard Matrix settings and easy colour matching to the other line cameras on the show.

Flicker Correction

The Hi-Motion II has implemented the Flicker Correction, so the effect of lighting flicker is reduced in the ultra slow motion images.

Work Flow

Continuous Live Output

The Hi-Motion II provides continuous live video output. This allows the Hi-Motion II to be used as a standard broadcast line camera, as well as a replay camera.

Recording during Replay

The Hi-Motion II allows the users to simultaneously record ultra slow motion images during replay. This allows the users to cue up crucial slow motion imagery without missing any crucial on-field action.

Operation and Control from EVS

The Hi-Motion II allows the users to operate and control from EVS series at Hyper Motion mode as well as its dedicated controller for record & replay.

Specification

Camera Head

General

| | |
|----------------------------|--|
| Image Sensor | 3x CMOS, 2/3-inch Optical System |
| Effective picture elements | 1920x1080 |
| Lens Mount | B4 Mount |
| View Finder | 2-inch B/W viewfinder (standard) 9-inch LCD color viewfinder (optional) |
| Operation temperature | -15 to +40 degrees C |
| Storage temperature | -30 to +60 degrees C |
| Memory | 96GB (32GB x 3ch) |
| Frame rate | 24 to 1000 fps, 1fps step |
| Recording time | 38 sec. (300fps) |
| Shutter | 1 to 100%, 1% step |
| Dimensions (W x H x D) | 146 x 326 x 456 mm |
| Weight | 7 Kg (without VF and lens) |

Input/Output connectors

| | |
|-------------------------|---|
| HD-SDI output (Replay) | 1x BNC type : 1080i or 720p / 59.94 or 50Hz |
| HD-SDI output (Live) | 1x BNC type : 1080i or 720p / 59.94 or 50Hz |
| HD-SDI (Monitor/Return) | 1x BNC type : Monitor-out or Return-in selectable |
| Viewfinder | 1x Hirose 20pin |
| Accessory DC Output | 1x XRL 4pin : DC 12V Output (max.2A) |
| Remote | 1x Hirose 12pin : (for Slow Controller & Optional RS-422) |
| DC Input | 2x Neutrik 3pin : DC11 to 17V |
| Lens | 1x Hirose 12pin |
| Mic input | 2x XLR 3pin |
| Intercom 1 | 1x XLR 4pin |
| Intercom 2 | 1x XLR 5pin |
| Genlock | 1x BNC type : HD Tri-Sync or PS / SD VBS or BBS |
| Sync | 1x Hirose 6pin : VD (Input/Output), Trigger (Input) |
| AUX | 1x Hirose 10pin : RET 1&2 (Input), R&G Tally (Output) |
| OCP | 1x TAJIMI 8pin |
| J-PAD | 1x Hoshiden 9pin |
| USB | 1x USB (Standard A) |
| Hybrid Fibre Connector | 1x LEMO 3K or TAJIMI OPS (selectable) |

CCU

General

| | |
|------------------------|--|
| Power supply | AC 100 / 110 / 117 / 220 / 240 V ±10% |
| Power consumption | approx. 290 - 510VA (Camera, 9"VF and CCU) |
| Operating temperature | -0 to +45 degrees C |
| Storage temperature | -30 to +60 degrees C |
| Dimensions (W x H x D) | 483 x 133x 454 mm |
| Weight | 28 Kg |

Output signals

| | |
|-------------------|---|
| HD-SDI output | 4x BNC type selectable as below -2x Replay and 2x Live: 1080i or 720p / 59.94 or 50Hz -2x Dual Link of Replay or Live: 1080p / 59.94 or 50Hz -4x 3G-SDI of Replay or Live: 1080p / 59.94 or 50Hz |
| HD-SDI PM output | 2x BNC type, 1080i or 720p / 59.94 or 50Hz |
| HD-SDI WFM output | 2x BNC type, 1080i or 720p / 59.94 or 50Hz |
| SYNC output | 1x BNC type, HD: Tri-Sync |

Input signals

| | |
|---------------------------|--|
| HD SDI Return input | 4x BNC type, 1080i or 720p / 59.94 or 50Hz |
| Reference (Genlock) input | 1x BNC type, HD Tri-Sync or PS / SD VBS or BBS |
| Audio (MIC) input | 2x XLR 3pin: 2ch, 0dBm |

Talkback & Tally

| | | | |
|--|-----------------------------|--------------|-----|
| Both Engineering & Production Talkback Circuits, with 2 Program Sound Inputs | | | |
| Intercom (ENG/PROD) | (4-wire or Clearcom or RTS) | | |
| 4-wire | 0dBm, | 600Ω, | 2ch |
| Clearcom | -15dBs, | 200Ω, | 2ch |
| RTS | 0dBm, | 200Ω, | 2ch |
| Program sound | 0dBs, | 600 or 10KΩ, | 2ch |
| Tally | Red & Green Input / Output | | |

Camera

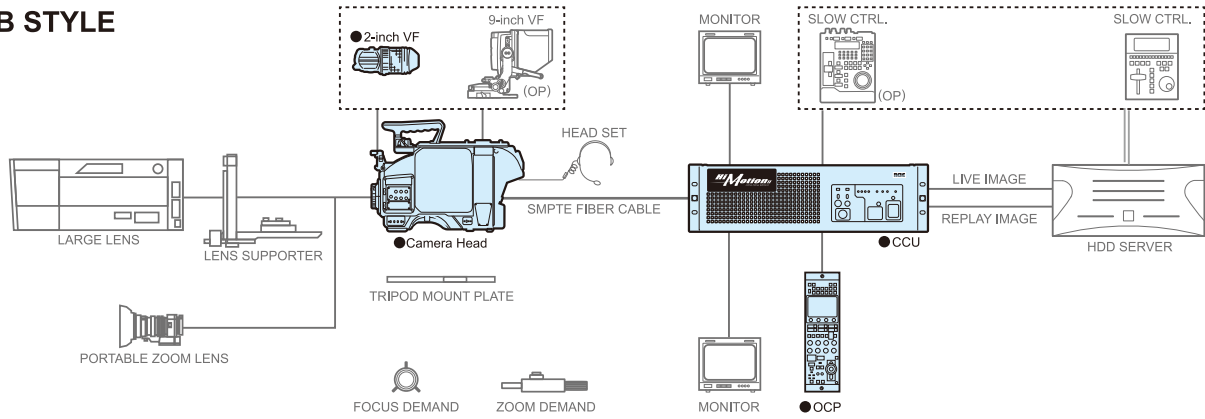
| | |
|------------------------|---------------------------------------|
| Hybrid Fibre Connector | 1x LEMO 3K or TAJIMI OPS (selectable) |
|------------------------|---------------------------------------|

Specifications subject to change without notice.

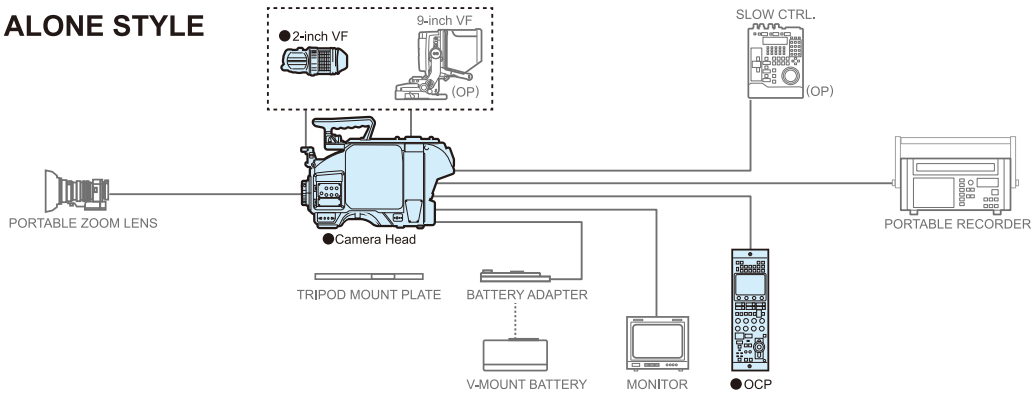
Product Configuration Overview



OB STYLE



STAND ALONE STYLE



● = STANDARD PRODUCT CONFIGURATION
 □ = SELECTABLE (OP) = OPTIONAL

Hi-Motion II Camera System



Camera Control Unit



Operation Control Panel



Camera Head

NAC Hi-Motion II Authorized Distributors



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