

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 XLR 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 $\pm 10\%$
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, 600 Ω ,	2ch
Clearcom	-15dBs, 200 Ω ,	2ch
RTS	0dBm, 200 Ω ,	2ch
Program sound	0dBs, 600 or 10K Ω ,	2ch
Tally	Red & Green Input / Output	

Camera

Hybrid Fibre Connector	1x LEMO 3K or TAJIMI OPS (selectable)
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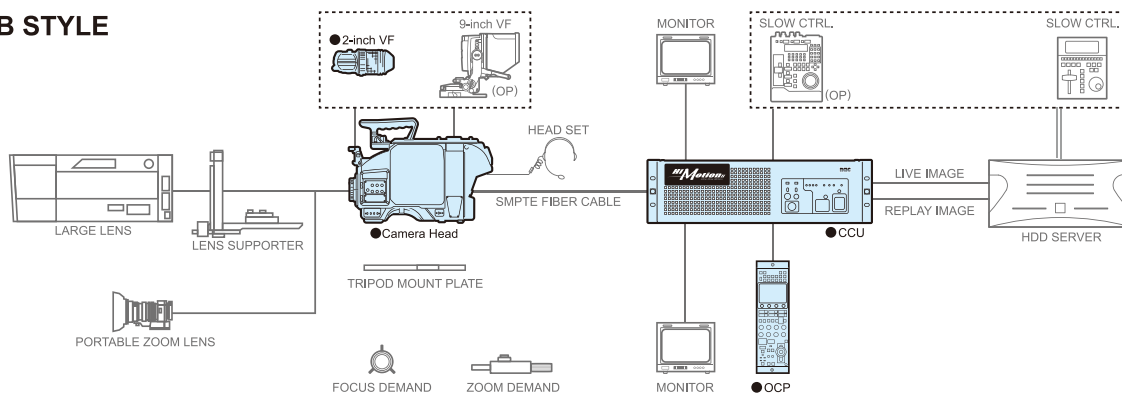
Specifications subject to change without notice.



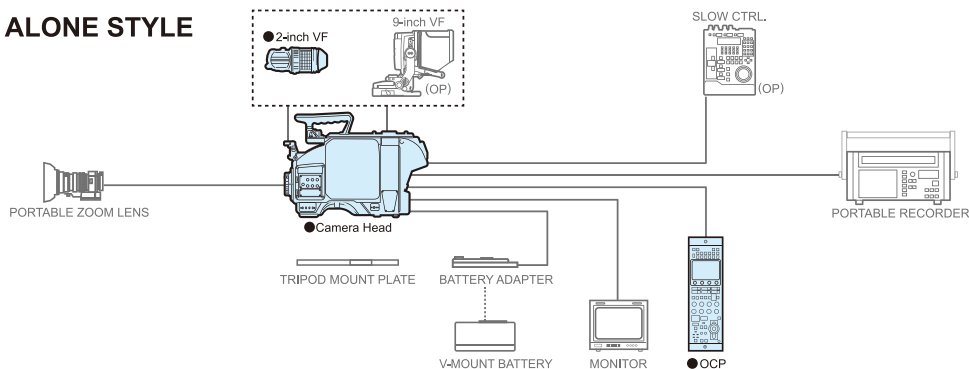
Product Configuration Overview

Hi-Motion II
Ultra Slow Motion

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

Ikegami

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