

# Ikegami

**HD**  
High Definition

**Extended Optics HDTV Digital Camera**

# HDK-79EXNA



**The HDK-79EXNA is expanded by the state of the art in which Ikegami HDTV technologies are completely harmonized. To meet the demands of gyro mount, jib arm mount, and other special shooting including POV applications, Ikegami introduces a new HDTV camera with extended optical block. The camera consists of the separated optical block connected by multicore cable to a camera body containing the latest video processing circuitry.**

## Extended Optics HDTV Digital Camera

# HDK-79EXNA



### ■ Features

#### ■ 2/3-inch Optical system and 2,200,000-pixel FIT CCDs

2/3-inch 2.2M pixel 1080i FIT CCDs are employed to achieve superb picture quality with a horizontal resolution of 1,000 TV lines. The optical block also utilizes the standard 2/3-inch format HD lens mount, so a full range of HD lenses is available.

#### ■ Full Digital and High Picture Quality

Using newly developed digital process ICs, precision designed at 0.18 $\mu$ m rule, the video signals are digitized with 12-bit A/D conversion and up to 38-bit internal digital processing circuit. As non-linear processing such as gamma correction is performed digitally, consistent and repetitive high picture quality and stable reliability is assured.

#### ■ HD-SDI Outputs at the Camera Body

Two (2) HD-SDI outputs are available at the camera body.

#### ■ Flexible Cable

The standard cable between separated optical block and camera body is 10 meters (up to 50m maximum) using a thin, light weight multicore cable. Longer cable distance is available as special factory order (up to 100m maximum).

#### ■ Remote Control Panel System

The camera body includes control panel connector allowing the full range of Ikegami control panels to be used.

#### ■ Hyper Gain Up

Using the specified optical system and noise reduce technology, Hyper Gain function achieves a minimum illumination of 0.5lx/f1.4 (with +42dB gain-up)

### ■ Ratings

**Scanning system** 1125 Interlaced (59.94Hz or 60Hz)  
**CCD image sensor** 2/3-inch 2,200,000 pixel FIT CCD  
**Lens mount** 2/3-inch bayonet (B4), conforms to BTA S-1005B

**Ambient temperature** -20°C~+45°C (-4F°~+112F°)  
**Relative humidity** 30%~90% (Non-condensation)  
**Operating voltage** AC100V (100~120V)

**Weight (Approx)**  
 \* **Camera Body** 4.2kgs (9.26lbs)  
 \* **Optical block** 1.0kgs (2.2lbs)

**Dimensions**  
 \* **Camera body** W125XH269XD337 mm (W4.9XH10.6XD13.3 inches)  
 \* **Optical block** W72XH103XD109 mm (W2.83XH4.06XD4.29 inches)

### ■ Performance

**Sensitivity** F10 at 2,000lx  
**S/N** 55dB (HDTV)  
**Horizontal resolution** 1,000 TV lines  
**Modulation depth** 40% or more (800TVlines27.5MHz)  
**Power consumption** Approx 40W

**Input signals**  
 \* **External SYNC signal** 3 level SYNC 1ch (0.6Vp-p $\pm$ 6dB)

**Output signals**  
 \* **Analog signal** R,G,B or Y,P<sub>B</sub>,P<sub>R</sub> each 1ch, 75 $\Omega$  (multi-pin connector)  
 Y,P<sub>B</sub>,P<sub>R</sub> 4:2:2 serial digital 2ch (SMPTE292M)

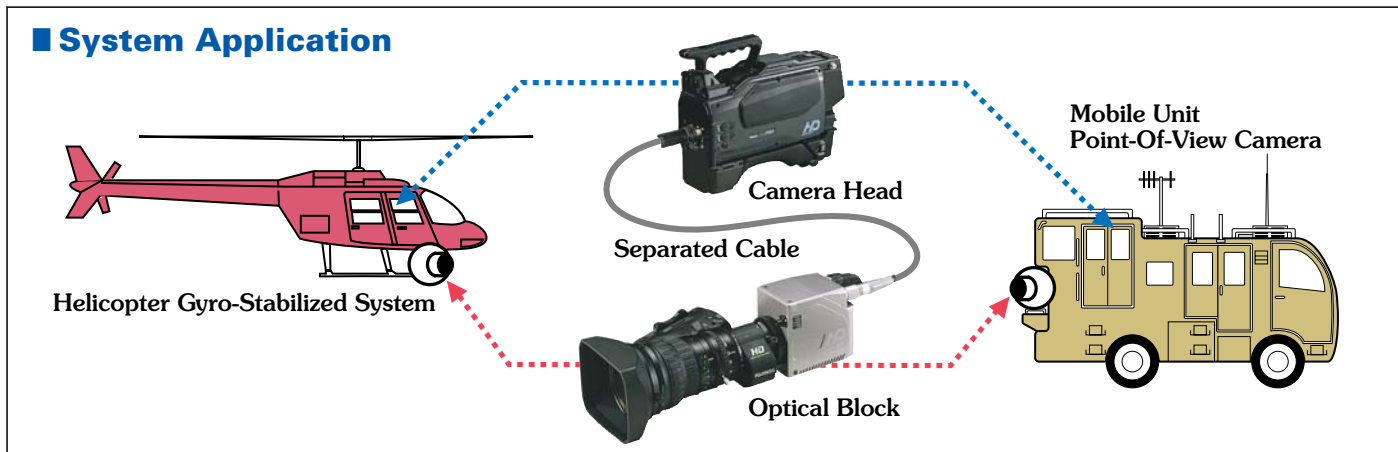
\* **HD-SDI signal**

**GAIN Control** -3, 0, +3, +6,+12dB (Standard) / +18, +30, +42dB(Option)

**Auto Electric Shutter** 1/60(Off), 1/100, 1/120, 1/250, 1/1000, 1/2000

**GAMMA** Off, 0.35, 0.4, 0.45

### ■ System Application



Design and specifications are subject to change without notice.

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