

# Progressive scan CCD camera HV-F202SCL (Camera Link)/ HV-F202GV (GigE Vision)



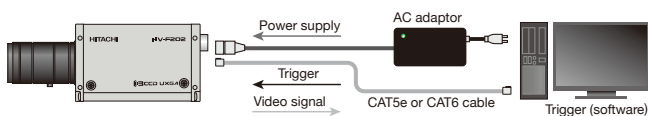
## Main Features

- Gen<i>i</i> Cam support (HV-F202GV)  
Development of camera control system is easy because industrial camera control API .
- PoE support (HV-F202GV only)  
Power supply can be input via Ethernet cable (Power over Ethernet).  
When not connected to PoE, the power supply can be input from the DC IN/SYNC connector.
- CameraLink support (HV-F202SCL)  
The SCL version in Medium configuration can operate at 30fps at Maximum pixel clock rate, full resolution and maintain 36bit output.
- Digital processing for various picture quality enhancements
- Auto shading correction (ASC)

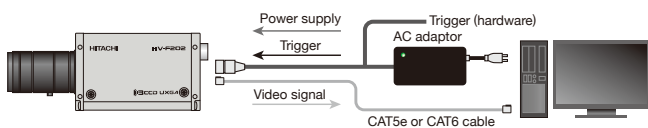
## System configuration

### HV-F202GV

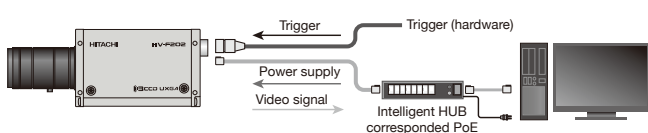
Direct connection to PC and triggered via Ethernet (Software trigger)



Direct connection to PC and triggered via multi-connector (Hardware trigger)

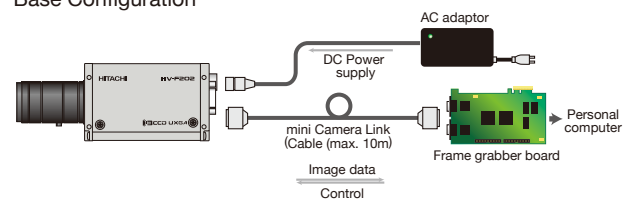


Connection via HUB/switcher to PC and power supply via the Ethernet (PoE)

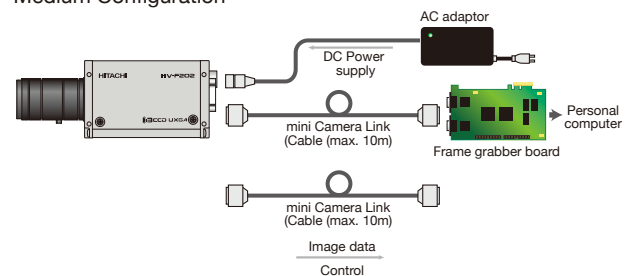


### HV-F202SCL

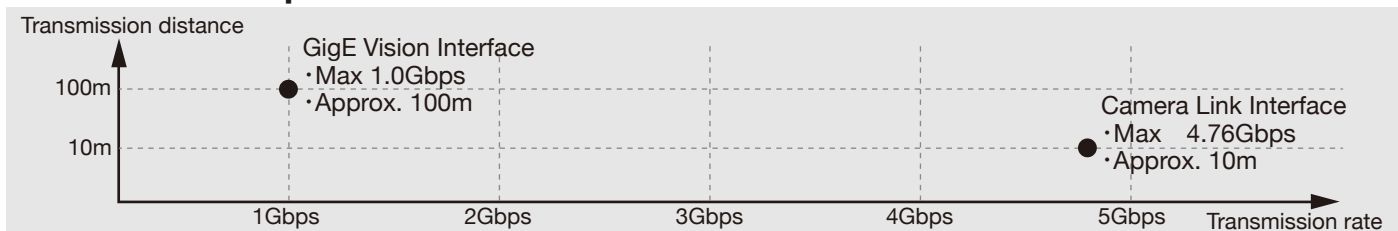
Base Configuration



Medium Configuration



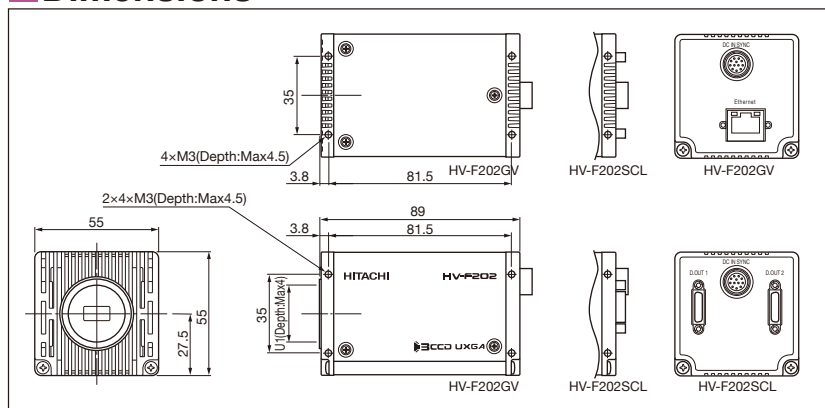
## Interface comparison



## Main Specifications

		HV-F202GV	HV-F202SCL	
Imaging device	Effective pixels	1/1.8-inch progressive scan interline CCD (R, G, B 3 CCD)		
	Pixel size	1600(H) x 1200(V)		
	Pixel size	4.4 μm(H) x 4.4 μm(V) (Square pixel)		
	Optical system	1/1.8-inch F1.8 prism		
Scanning area	7.04 mm(H) x 5.28 mm(V)			
Lens mount	C mount			
Video output	Gigabit Ethernet IEEE802.3ab (1000BASE-T)		Camera Link support	
	GigaE Vision Support		Base Configuration /	
	Gen<->Cam Support		Medium Configuration	
	RGB (24 bit/30 bit/ 36 bit), MONO (8 bit/10 bit/12 bit)		Base Configuration: RGB 24bit	
Frame rate	YUV (24 bit/30 bit/ 36 bit)		Medium Configuration: RGB 30bit / RGB 36bit	
	Frame rate (frames per second)			
		24bit	30bit	36bit
	RGB	18	12	9
Sensitivity	YUV	28	18	18
	2000 lx, F5.6, 3200K (at 1/30 second shutter)			
Electric shutter speed	OFF / Auto (AES) / Manual (Variable)			
	Variable	1/30 to 1/100,000 second		
	AES	1/30 to 1/100,000 second		
	Long time integration	1/30 to approx. 10 second (1 frame step)		
External trigger shutter	Mode	Fixed shutter, One trigger, VD sync reset		
	Input	Via Gigabit Ethernet cable or DC IN/SYNC connector		
	Input level	Via CameraLink cable (CC1) or DC IN/SYNC connector		
External sync signal (Strobe out)	5 Vp-p ±0.5 V			
White balance	VD output, Flash out			
Gain	Manual / One-push auto / Continuous auto			
Gamma	Manual: 0 to +12 dB, AGC: 0 to +12 dB (with limit setting)			
Color masking	0.45 / 1.0 / LUT (Look up table: user customizable)			
Sharpness	OFF/ON (6 color independent masking)			
Power supply	Sharpness (DTL) level, Sharpness (DTL) width			
Power consumption	DC+12 V ±1 V (from DC IN / SYNC connector), 48V (PoE)		DC+12 V ±1 V (from DC IN / SYNC connector)	
Ambient temperature	Approx. 8.2 W (DC+12 V)		Approx. 7.2 W (DC+12 V)	
	Performance	0 °C to +40 °C		
	Operating	-10 °C to +40 °C (without dew condensation)		
Vibration endurance	Storage	-20 °C to +60 °C		
	10 to 200 Hz 24.5 m/s <sup>2</sup>			
Shock endurance	392 m/s <sup>2</sup>			
External dimensions	55(W) x 55(H) x 89(D) mm (not including lens and protrusions)			
Mass	Approx. 350 g (without lens)			

## Dimensions



## Rear view



## Standard composition

- Camera
- Lens mount sheet
- DC IN / SYNC connector plug (HR10A-10P-12S)
- Instruction manual

**CAUTION :** To ensure safe operation, please read the instruction manual before using this product.

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These Specifications are subject to change without notice.

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